

Personal Systems Reference IBM ThinkPad Notebooks A, T, X, and G Series 2000 to 2005 - withdrawn

May 2005 - Version 291



Type-model Process	or MHz Mem Screen Disk CD-ROM CommunicaBay Preload Avail	WINDOWS 98 PRELOAD14
	Solution	- Microsoft® Windows® 98 Second Edition¹³ - ThinkPad Utilities - ThinkPad Assistant™ - ConfigSafe® - IBM Update Connector™.¹⁵ - Access ThinkPad II - PC-Doctor™ - Universal Manageability Services - Lotus® SmartSuite® Millennium CD - Software Selections CD-ROM - Recovery CD-ROM (Windows 98 SE) - Recovery CD-ROM (Windows 95)
Processor L2 cache Memory Diskette drive CD-ROM Ultrabay 2000 Disk (removable) Display	Intel® Mobile Celeron™ 500MHz¹ with 100MHz bus or Pentium® III 500MHz with 100MHz system bus or Pentium III 700MHz with SpeedStep™ technology and 100MHz system bus Celeron: 128KB / onboard (at processor speed) / ECC Pentium III: 256KB / onboard (at processor speed) / ECC 64MB standard / 512MB max² / SDRAM / non-parity / 100MHz / PC 100 / 3.3v / two 144-pin SO-DIMM sockets / 64MB in one socket / 1 socket available 3.5" 1.44MB / not removable CD-ROM / 24X-10X speed / bootable / removable from Ultrabay™ 2000 Modular bay for interchangeable devices / on all A and T Series, ThinkPad Dock 6 or 12.0GB / upgradeable / S.M.A.R.T. / supports 2nd disk in opt HDD adapter 12.1" (307.3mm) SVGA (800x600) TFT color / Active Matrix 14.1" (358.1mm) XGA (1024x768) TFT color / Active Matrix	WINDOWS 2000 PRELOAD¹⁴ - Windows 2000 Professional¹³ • ThinkPad Utilities • ThinkPad Assistant • ConfigSafe® • IBM Update Connector • Access ThinkPad II • PC-Doctor ◆ Lotus® SmartSuite® Millennium CD ◆ Software Selections CD-ROM ◆ Recovery CD-ROM (Windows 2000) ◆ Recovery CD-ROM (Windows NT)
Graphics - external Keyboard ThinkLight UltraPort™ connectr Dimensions³ Approximate weight² Battery - type Battery - life¹0	12.1" models: ATI™ Rage™ Mobility M / AGP 2X / 4MB SDRAM / DDC2B 14.1 and 15" models: ATI Rage Mobility M1 / AGP 2X / 8MB SDRAM / DDC2B External SVGA to 1024x768x16.7 million colors at 85Hz and up to 1600x1200 ThinkPad Button / palm rest / TrackPoint®, Press-to-Select, Internet Scroll Bar Illuminates the keyboard to improve visibility in low-light conditions None 12.1 and 14.1: Approximately 12.48 x 10.53 x 1.44-1.7"; 317 x 268 x 37.7-43.3mm 15" models: Approximately 12.95 x 10.53 x 1.5-1.76"; 329 x 268 x 38.1-44.7mm with CD drive and battery: 12.1" models: 6.3 lb (2.9 kg), 14.1" models: 6.6 lb (3.0 kg) 15.0" models: 6.9 lb (3.1 kg) / IBM ThinkPad UltraCarbon™ case Lithium Ion 6-cell / intelligent / supports unique 2nd battery in Ultrabay 2000 12.1" and 15.0" models: 3.5 hrs, 14.1" models: 3.7 hours f2 to 3 hrs / 1.5 to 2.5 hrs	The right bay (Ultrabay 2000) supports the following:
Architecture Port replicator Docking Station PC Card Std slots Ports Other features	Intel 440BX AGPset / Intel PIIX4M (EIDE with Ultra DMA/33 or PIO Mode 4 support, ISA Bridge, USB) / TI® PCI1450 for CardBus / AGP 2X for graphics / PCI 2.1 / 32-bit / 33MHz (EIDE, CardBus, audio, USB, ext expansion) / PC97338 Super I/O / ISA (diskette, serial, parallel, infrared, ext exp) ThinkPad Port Replicator ThinkPad Dock (includes Ultrabay 2000 and half-size PCI slot) 2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed Video USB: One (Version 1.1) / Serial: one 9 pin / Parallel: one / keyboard / mouse / external DB-15 monitor / infrared (4Mbps) / RJ-11 (modem) / RJ-45 (ethernet) 72 watt AC Adapter	optional HDD adapter; for second disk optional ThinkPad Proven™ solutions¹6 (such as Travel Bezel) Windows 98 model: -C: drive is FAT16 of 2GB -D: drive is FAT32 of remaining space Windows 2000 models:
Video in and out Communicatns Bay Modem Ethernet/modem Audio support	None Communications Bay with Mini PCI IIIb slot / customer accessible Some models: 56K ⁶ V.90 Mini PCI modem card / Lucent® chip set Some models: IBM 10/100 EtherJet™ Mini PCI Adapter with 56K Modem / Intel ethernet chipset / Lucent modem chip set PCI audio / SoundBlaster Pro™ support / CS4624 with CS4297A AC97 codec / stereo speakers / .5 watt / volume up, down, mute buttons / int microphone / input jack (3.5 mm) / output jack (3.5 mm) / line in Power-on password / hard disk password / supervisor password / security keyhole	PC 99-compliant CIM and DMI 2.0 compliant Wired for Management 2.0
with 56K Modem b - IBM 10/100 Ether, with 56K Modem Ultrabay 2000 inter - 24X-10X CD-ROM - 6X-2X DVD Ultraba - Zip 250MB Ultraba - SuperDisk (LS-120 - 4X/4X/20X CD-Rea - Ultrabay 2000 Li-lo - Travel Bezel for Ul Wireless connectivi	128MB SO DIMM 100MHz NP SDRAM 20L0258 256MB SO DIMM 100MHz NP SDRAM 33L3068 256MB SO DIMM 100MHz NP SDRAM 256MB SO DIMM 100ME 256MB SO DIMM 100ME 256MB SO DIMM 100ME 256MB	and transition planning tools ENERGY STAR compliant Setup Guide, User's Reference, Windows manual Asset ID™ wireless RF technology via replacing HDD access door Personalized Web-based support International Warranty Service¹¹ IBM SystemXtra®20 J 24 hour x 7 day¹8 toll-free hardware support during the warranty

	MIL Man Occur	Pid OD DVD O	Dulin I A III	
Type-model Process		GGR ⁸ 24X-10X ⁹ CD, modem	Preload Avail 98SE Jun 00	WINDOWS 98 PRELOAD14
2628-1AU Celeron 2628-3AU Celeron 2628-3AU Celeron 2628-4AU Pentium 2628-1UU Celeron 2628-1UU Celeron 2628-3UU Celeron 2628-3UU Celeron 2628-4UU Pentium 2628-4UU Pentium 2628-4XU Pentium 2628-4XU Pentium 2628-4XU Pentium 2628-4XU Pentium 2628-4XU Pentium 2628-3XU Celeron 2628-3	550 64MB 15.0" XGA 550 64MB 15.0 XGA 6 III 600 64MB 14.1" XGA 550 64MB 12.1" SVGA 550 64MB 12.1" SVGA 550 64MB 12.1" SVGA 550 64MB 15.0" XGA 6 III 600 64MB 14.1" XGA 6 III 600 64MB 14.1" XGA 6 III 700 64MB 14.1" XGA 6 III 700 64MB 14.1" XGA 6 III 700 64MB 12.1 SVGA 6 III 700 64MB 12.1 SVGA 6 III 500 64MB 12.1 SVGA 6 III 500 64MB 12.1 SVGA 6 III 500 64MB 12.1" SVGA	12GB 24X-10X CD modem 12GB 6X-2.3X° DVD modem 12GB 6X-2.3X° DVD modem 12GB 6X-2.3X DVD modem 12GB 24X-10X Intel eth/mod 12G 24X-10X Intel eth/mod 12G 24X-10X Intel eth/mod 12G 24X-10X Intel eth/mod 12G 6X-2.3X DVD Intel eth/mod 12G 6X-2.3X DVD Intel eth/mod 12G 24X-10X modem 12G 24X-10X 3Com® eth/mod 12G 24X-10X 3Com eth/mod 12G 24X-10X 3Com eth/mod 12G 24X-10X DSCom eth/mod 12G 24X-10X DSCom eth/mod 12G 24X-10X DSCom eth/mod 12GB 24X-10X CD 3Com eth/mod	2000 Jun 00 98SE Jun 00 2000 July 00 98SE Aug 00 98SE Aug 00	- Microsoft® Windows® 98 Second Edition¹³ • ThinkPad Utilities • ThinkPad Assistant™ • ConfigSafe® • IBM Update Connector™.¹⁵ • Access ThinkPad II • PC-Doctor™ • Universal Manageability Services ◆ Lotus® SmartSuite® Millennium CD ◆ Software Selections CD-ROM ◆ Recovery CD-ROM (Windows 98 SE) ◆ Recovery CD-ROM (Windows 95) WINDOWS 2000 PRELOAD¹⁴ - Windows 2000 Professional¹³
Processor	Intel® Mobile Celeron™ 550 Pentium® III 500MHz with 1	OMHz ^{1,24} with 100MHz bus or 00MHz system bus or		ThinkPad UtilitiesThinkPad Assistant
L2 cache	Pentium® III 600 or 700MHz Celeron: 128KB / onboar	z with SpeedStep™ technology and rd (at processor speed) / ECC	100MHz bus	ConfigSafe® IBM Update Connector
Memory	Pentium III: 256KB / onboar	rd (at processor speed) / ECC 2MB max ⁷ / SDRAM / non-parity / 100N	//Hz / PC 100 /	Access ThinkPad II PC-Doctor
	two 144-pin SO-DIMM socke	ets / std memory in one socket / 1 soc		
Diskette drive CD or DVD-ROM Ultrabay 2000 Disk (removable) Display	6 or 12.0GB ⁸ / upgradeable / 12.1" (307.3mm) SVGA (800)	able devices / on all A and T Series, 7 S.M.A.R.T. / supports 2nd disk in opt I x600) TFT color / Active Matrix		 ♦ Software Selections CD-ROM ♦ Recovery CD-ROM (Windows 2000) ♦ Recovery CD-ROM (Windows NT) LINUX PRELOAD¹⁴ - Caldera® OpenLinux
		(x768) TFT color / Active Matrix 768) TFT color / Active Matrix		eDesktop™ 2.4
Graphics controller	12.1" models: ATI™	Rage™ Mobility M / AGP 2X / 4MB S		Access ThinkPad II StarOffice Natarana Communicator
Graphics - external		age Mobility M1 / AGP 2X / 8MB SDI x16.7 million colors at 85Hz and up to 1		Netscape Communicator OpenLinux eDesktop CD-ROM
Keyboard ThinkLight UltraPort™ connectr	Illuminates the keyboard to ir	/ TrackPoint®, Press-to-Select, Internet mprove visibility in low-light conditions	Scroll Bar	Recovery CD-ROM The right bay (Ultrabay 2000) supports
Dimensions ³	12.1 and 14.1: Approximatel	ly 12.48 x 10.53 x 1.44-1.7"; 317 x 268	x 37.7-43.3mm	the following: • standard CD-ROM
Battery - type Battery - life ¹⁰	with CD drive and battery: 12. 15.0" models: 6.9 lb (3.1 kg)	ly 12.95 x 10.53 x 1.5-1.76"; 329 x 268 .1" models: 6.3 lb (2.9 kg), 14.1" models: / IBM ThinkPad UltraCarbon™ case / supports unique 2nd battery in Ultraba hrs, 14.1" models: 3.7 hours	s: 6.6 lb (3.0 kg)	optional DVD drive optional Zip drive optional second battery optional SuperDisk (LS-120) drive optional CD-RW
Architecture	support, ISA Bridge, USB) / PCI 2.1 / 32-bit / 33MHz (EII	PIIX4M (EIDE with Ultra DMA/33 or P TI® PCI1450 for CardBus / AGP 2X fo DE, CardBus, audio, USB, ext expans iskette, serial, parallel, infrared, ext ex	r graphics / ion) /	 optional HDD adapter; for second disk optional ThinkPad Proven™ solutions¹6 (such as Travel Bezel)
Port replicator Docking Station PC Card Std slots Ports Other features	2 Type I, 2 Type II, or 1 Type USB: One (Version 1.1) / Ser	Itrabay 2000 and half-size PCI slot) e III / CardBus 32-bit / PCMCIA 2.1 / Zo rial: one 9 pin / Parallel: one / keyboard ared (4Mbps) / RJ-11 (modem) / RJ-45	d / mouse /	Windows 98 model: - C: drive is FAT16 of 2GB - D: drive is FAT32 of remaining space Windows 2000 models: - C: drive is FAT32 of entire drive
Video in and out	None Communications Bay with M	lini PCI IIIb slot / customer accessible		
Modem Ethernet/modem	Some models: 56K6 V.90 Min	ni PCI modem card / Lucent® chip set EtherJet™ Mini PCI Adapter with 56K I		Service options: Service upgrades provide up to three years of onsite or
	3Com ethernet chipset / Luc	ent modem chip set		depot repair service coverage from date of ThinkPad purchase (including
Audio support	stereo speakers / .5 watt / vo input jack (3.5 mm) / output ja		rophone /	warranty period)
Security Limited warranty ¹²	<u>'</u>	sk password / supervisor password / sed EasyServ ^{™,19} depot repair service via		PC 99-compliant CIM and DMI 2.0 compliant
Communication Ba -IBM 10/100 Etherr with 56K Modem b	y net Mini PCI Adapter by 3Com 09N9 let Mini PCI Adapter	- 64MB SO DIMM 100MHz NP SI - 128MB SO DIMM 100MHz NP S - 256MB SO DIMM 100MHz NP S - 6.0GB HDD 124 - 12.0GB HDD	DRAM 20L0254 DRAM 20L0255 DRAM 33L3069 05K9237 05K9238	Wired for Management 2.0 Local and remote asset manage ment via the IBM Universal Manageability solutions IBM PC Lifecycle Care provides
- 24X-10X CD-ROM - 6X-2X DVD Ultraba - Zip 250MB Ultraba - SuperDisk (LS-12C - 4X/4X/20X CD-Re - Ultrabay 2000 Li-Ic - Travel Bezel for Ultraba Wireless connectividation of the connectivity	y 2000 Drive 00N8; b) UltraBay 2000 Drive 05K9; ad/Write Ultrabay 2000 00N8; on battery 02K66 trabay 2000 08K60 ty less I AN PC Card 09N9;	- Second HDD Adapter for Oltrabi 253 - Portable Drive Bay 2000 - ThinkPad Port Replicator (A and 252 - ThinkPad Dock (A and T Series - ThinkPad A Series Battery (9-ce - ThinkPad 72W AC Adapter - IBM 340MB Microdrive - ThinkPad Monitor Stand 2000	19K4480 d T Ser) 02K8667) 263110U ell) 02K6640 02K6699 00N8073	Setup Guide, User's Reference, Windows manual Asset ID™ wireless RF technology via replacing HDD access door
- IBM 802.11b Wire	less LAN Access Point 09N9	865 - IBM Multi-Port USB Hub	00N8215	

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* Linux preloaded model does not support most options and has other limitations²⁵

Models withdrawn from marketing effective February 2001 No warranties are expressed or implied in this summary (A20MR) © IBM Corp. January 2001

Type-model Processo	or MHz Mem	Screen Di	sk DVD-ROI	M Communica Bay	Preload	Avail	WINDOWS 98 PRELOAD14	
2629-61U Pentium 2629-62U Pentium 2629-6TU Pentium 2629-6AU Pentium 2629-6CU Pentium 2629-6UU Pentium 2629-6VU Pentium	III 700 128MB III 700 128MB III 700 128MB III 750 128MB III 750 128MB	15" SXGA+ 18 15" SXGA+ 18 15" SXGA+ 18 15" SXGA+ 20 15" SXGA+ 20 15" SXGA+ 20 15" SXGA+ 20 15" SXGA+ 20	G 6X-2X G 6X-2X G 6X-2X G 6X-2X	modem 2 Intel® eth/modem Intel eth/modem2 modem 9	2000 98SE 2000 98SE	May 00 May 00 May 00 May 00 Jun 00 Jun 00 Jun 00 Jun 00	 Microsoft® Windows® 98 Second Edition¹³ ThinkPad Utilities ThinkPad Assistant™ ConfigSafe® IBM Update Connector™.¹⁵ Access ThinkPad II 	
Processor	Intel® Mobile Pe and 100MHz sy		or 750MHz¹ v	with Intel SpeedSt	tep™ tech	nology	 PC-Doctor™ Universal Manageability Services 	
L2 cache Memory	256KB / onboard 128MB standard	d (at processor d / 512MB maxi	mum ⁷ / SDRA	C .M / non-parity / 10 B in one socket / 1			Mediamatics DVD Express MGI VideoWare III (video editing)	
Diskette drive DVD-ROM Ultrabay 2000 Disk (removable)	Modular bay for 18.0GB8 / upgra	2X ⁹ speed / boo interchangeabl deable / S.M.A.	e devices / or R.T. / suppor	rable from Ultrabay a all A and T Series ts 2nd disk in option	, ThinkPa	d Dock adapter	♦ Recovery CD-ROM (Windows 98 SE) ♦ Recovery CD-ROM (Windows 95) WINDOWS 2000 PRELOAD ¹⁴	
Display Graphics controller	,	•		lor / Active Matrix	th to mon	2017/	- Windows 2000 Professional13	
Graphics controller Graphics - external	Supports extern of the optional d	al digital monito ocking solution	r⁵ via the Digi s / DDC2B /	DRAM / 128-bit pa tal Video Interface ors at 85Hz and up	(DVI) por	t on either	 ThinkPad Utilities ThinkPad Assistant ConfigSafe[®] IBM Update Connector 	
Keyboard ThinkLight UltraPort™	Illuminates the k	eyboard to imp	ove visibility i	Press-to-Select, Int in low-light conditions such as digital	ns		Access ThinkPad IIPC-DoctorMediamatics DVD Express	
Dimensions ³ Approximate weight ² Case material Battery - type Battery - life 10 Charge time 10 - on / off	with DVD drive a Titanium Compo Lithium Ion 9-ce 4.3 hours	and battery: 7.6 psite in the cove II / intelligent / s	lb (3.45 kg) r for enhance	x 268mm x 38.1-4 d strength ⁴ and a li ue 2nd battery in U	ghtweight		MGI VideoWare III (video editing) Lotus® SmartSuite® Millennium CD Software Selections CD-ROM Recovery CD-ROM (Windows 2000) Recovery CD-ROM (Windows NT)	
Architecture	Intel 440BX AG ISA Bridge, USE PCI 2.1 / 32-bit /	Pset / Intel PII) 3) / TI® PCI1450 33MHz (EIDE,) for CardBus CardBus, au	th Ultra DMA/33 or / AGP 2X for grap dio, USB, ext expa rallel, infrared, ext	hics / nsion) /	e 4 support,		
Port replicator Docking Station PC Card Std slots Ports Other features	ThinkPad Port I ThinkPad Dock 2 Type I, 2 Type USB: One (Vers	Replicator (includes Ultra II, or 1 Type III ion 1.1) / Serial nonitor / infrare	bay 2000 and / CardBus 32 : one 9 pin / P	I half-size PCI slot) P-bit / PCMCIA 2.1 Parallel: one / keybo J-11 (modem) / RJ	/ Zoomed oard / mou	use /	The right bay (Ultrabay 2000) supports the following: optional CD-ROM optional DVD drive optional Zip drive optional second battery	
Video in and out	S-video in and S	-video out / two		ndard connectors /	full MPEG	3-2 support	optional SuperDisk (LŚ-120) driveoptional CD-RW	
Communicatns Bay Modem Ethernet/modem	Some models: 5 Some models: If ethernet chipset	s Bay with Mini 6K ⁶ V.90 Mini F BM 10/100 Ethe /Lucent mode	PCI IIIb slot / PCI modem ca rJet™ Mini P(n chip set	customer accessib ard / Lucent® chip s Cl Adapter with 56h	et K Modem /		 optional HDD adapter; for second disk optional travel bezel optional ThinkPad Proven™ solutions¹6 	
Audio support Security	stereo speakers input jack (3.5 m	.5 watt / volur m) / output jacl	ne up, down, i k (3.5 mm) / lii	4624 with CS4297, mute buttons / inte ne in jack upervisor password	rnal micro	phone /	PC 99-compliant CIM and DMI 2.0 compliant	
Limited warranty ¹²	3 year - carry-in	or ThinkPad Ea	asyServ™,19 d	epot repair service	via courie	er	Wired for Management 2.0 Local and remote asset manage	
Service options				of onsite or depot r cluding warranty p		/IC C	ment via the IBM Universal Manageability solutions	
Communication Bay - IBM 10/100 Ethern with 56K Modem by - IBM 10/100 EtherJ with 56K Modem Ultrabay 2000 interc - 24X-10X CD-ROM - 6X-2X DVD Ultraba - SuperDisk (LS-120 - 4X/4X/20X CD-Rea - 250MB Zip Ultrabay - Ultrabay 2000 Li-loi - Travel Bezel for Ultr Wireless connectivit - IBM 802.11b Wirele	et Mini PCI Adapt y 3Com et Mini PCI Adapt hangeable acces Ultrabay 2000 Drive y 2000 Drive) Ultrabay 2000 D d/Write Ultrabay 2 y 2000 Drive n battery rabay 2000 y ess LAN PC Carc	er 09N9774 er 08K3124 sories ve 05K9233 05K9232 rive 05K9236 2000 00N8252 00N8253 02K6646 08K6070	- 64MB SO I - 128MB SO - 256MB SO - 256MB SO - IBM Ultrap - ThinkPad I - ThinkPad I - ThinkPad I - Li-Ion Multi - SmartCarc - Asset ID R - ThinkPad I Interchange - 6.0GB HDI - 12.0GB HD	DIMM 100MHz NP DIMM 100MHz NP DIMM 100MHz NF DIMM 100MHz NF DIMM 100MHz NF DOCK (A and T Seri A Series Battery (9 ZW AC Adapter IPLE Battery Charge I Security Kit F Adapter Monitor Stand 2000 Bable storage DD DD	SDRAM SDRAM SDRAM SDRAM And T Ser) es) -cell)	263110U	IBM PC Lifecycle Care provides proactive life cycle management and transition planning tools ENERGY STAR compliant Setup Guide, User's Reference, Windows manual Asset ID™ wireless RF technology (via replacing HDD access door)	
			(to add a se - Portable D (accepts U	DD Adapter for Ultra econd disk, a Seco rive Bay 2000 Itrabay 2000 device 3 Microdrive	nd HDD A		24 hour x 7 day ¹⁸ toll-free hardware support during the warranty	

Type-model Processo	or MHz	Mem	Screen	Disk	CD	Comm Bay Desi	gn	Modular bay	Preload	Avail		
2628-C1U Celeron ^T	™ 600	64MB	12.1" SVGA	10GB ⁸	24X-10X9CD	modem	Three spindle	Ultrabay 2000	Windows 98 SE			
2628-CXU Celeron	600					3Com® eth/mod				Oct 00		
2628-CSU Celeron 2628-C2U Celeron					24X-10X CD 24X-10X CD	Intel® eth/mod		Ultrabay 2000 Ultrabay 2000	Windows 98SE Windows 2000	Nov 00 Oct 00		
2628-CYU Celeron						3Com eth/mod		Ultrabay 2000	Windows 2000 Windows 2000	Oct 00		
2628-CTU Celeron					24X-10X CD			Ultrabay 2000	Windows 2000	Nov 00		
2628-J1U Celeron	600	64MB	15.0" XGA	10GB	24X-10X CD	modem		Ultrabay 2000		Oct 00		
2628-JXU Celeron 2628-JSU Celeron			15.0" XGA			3Com eth/mod	Three spindle		Windows 98 SE			
2628-J2U Celeron			15.0" XGA 15.0" XGA		24X-10X CD 24X-10X CD			Ultrabay 2000 Ultrabay 2000	Windows 98 SE Windows 2000	Oct 00		
2628-JWU Celeron			15.0" XGA			3Com eth/mod		Ultrabay 2000	Windows 2000	Oct 00		
2628-JTU Celeron			15.0" XGA		24X-10X CD			Ultrabay 2000	Windows 2000	Nov 00		
2628-JAU Celeron 2628-JUU Celeron			15.0" XGA 15.0" XGA		24X-10X CD 24X-10X CD			Ultrabay 2000 Ultrabay 2000	Windows 98 SE Windows 98 SE			
2628-JCU Celeron			15.0" XGA		24X-10X CD			Ultrabay 2000	Windows 2000	Feb 01		
2628-JVU Celeron	700		15.0" XGA		24X-10X CD	Intel eth/mod	Three spindle	Ultrabay 2000	Windows 2000	Feb 01		
Processor L2 cache Memory	128KB 64MB	/ onboa standai	ard (at process rd / 256MB ma	or spee ax ⁷ / SD	d) / ECC RAM / non-par	OMHz system buity / 100MHz / PC e socket / 1 sock	100/	1	OWS 98 PRELOA Windows® 98 Seco Itilities			
Diskette drive	3.5" 1.4	44MB/r	not removable	•	-			ThinkPad A				
CD or DVD-ROM			ovable from U					ConfigSafe IBM Lindste				
Ultrabay 2000 Disk (removable)			or interchange I / upgradeable			ts 2nd disk in opt I	HDD adapter	Access Thi	e Connector™,¹⁵ nkPad II			
Display			1 0		FT color / Activ		122 adaptor	 PC-Doctor[™] 	M	m or -l		
Overhier controll	15.0" (381mm)) XGA (1024x	768) TF	T color / Active	e Matrix		Lotus Note:	artSuite® Millenniu s® Client 5.0 licens	se		
Graphics controller Graphics - external					3 SDRAM / DD illion colors at 8	C2B 5Hz and up to 160	00x1200		elections CD-RON CD-ROM (Window			
Keyboard ThinkLight						Select, Internet S	Scroll Bar		WS 2000 PRELO	,		
UltraPort™ connectr	None	ales li le	Reyboard to II	iipiove	visibility iii low-	iigrit coriditions			000 Professional13	3		
Case material			<i>laterial:</i> ABS pl					ThinkPad LThinkPad A				
Dimensions ³						nm x 267.5mm x 3		ConfigSafe				
Approximate weight ²						mm x 268mm x 3 : 7.2 lb (3.3 kg)	6.1 -44 ./IIIII	IBM Update Connector				
Battery - type	Lithium	n Ion 6-c	cell / intelligent	t/supp		d battery in Ultrab	ay 2000	Access ThinkPad II PC-Doctor				
Battery - life ¹⁰			IU/JCU/JVU: (3.5 hrs					artSuite® Millenniu	m and		
Architecture		2 to 3 hrs / 1.5 to 2.5 hrs Intel 440MX PCIset (82443MX) / combines Host Bridge and PIIX4 in single chip /							s® Client 5.0 licens	se		
Architecture	PCI141	10 for C	ardBus / PCI 2	2.1/32	-bit / 33MHz (a	raphics, EIDE, Ca			elections CD-RON CD-ROM (Windows			
5	USB) /	PC973	38 Super I/O /	ISA (di	skette, serial, j	parallel, ext exp)		♦ Recovery C	D-ROM (Windows	s NT)		
Port replicator Docking Station			kPad Port Rep or ThinkPad D		r							
PC Card Std slots	1 Type	İ, 1 Typ	e II, or 1 Type	III / Ca	rdBus 32-bit / F	CMCIA 2.1 / no Z	Zoomed Video	The right bay	(Ultrabay 2000) sı	inports		
Ports	USB: C)ne (Vei	rsion 1.1) / Sei	rial: one	9 pin / Parallel	: one / keyboard/r	mouse /	the following:				
Other features						thernet) / no infra chnology support	red (4Mbps)		optional CD-ROM	l		
	None	AC Au	apter / 110 ASSE	5(ID ···· \	wireless Hir tec	Jillology support		optional DVoptional Zip				
Video in and out Communicatns Bay		unicatio	ns Bav with N	lini PC	I IIIb slot / custo	omer accessible		 optional sed 	cond battery			
Modem						Lucent® chip set			perDisk (LŠ-120) (drive		
Ethernet/modem	Some	models:			et Mini PCI Ada set / 3Com mo	apter with 56K ⁶ Mo	odem	optional CE optional HE)-RW)D adapter; for sec	ond		
	Some	nodels:				dapter with 56K N	/lodem/	disk	•	J		
Availa average			Intel etherne	et chips	et / Lucent mod	dem chip set			inkPad Proven™	۱۳۵۱/		
Audio support	CS420	aio / So 9 AC97	unaBlaster Pr ' codec / stere	o'™ sup o snea⊾	port / Intel 440 (ers / 5 watt / v	MX AC97 audio s olume up, down, i	support With mute buttons / n		(such as Travel Be	:Zei)		
	int micr	rophone	e / input jack (3	.5 mm)	/ output jack (3.	5 mm) / line in jacl	k	-				
Security						or paśsword / śeci	urity keyhole	_				
Limited warranty ¹² Service options					and delivery co	ourier service site or depot repai	r service					
Con vice options						g warranty period		PC 99-compl				
Communication Bay					AMR SO DIMA	1 100MHz NP SDI	RAM 20L025		2.0 compliant nagement 2.0			
- IBM 10/100 Ethern		CI Ada	pter			M 100MHz NP SD M 100MHz NP SE			note asset manag	е		
with 56K Modem by	/ 3Com		. 09N9	774 - 1	0GB HDD	0-	08K951	0 ment via th	e IBM Universal			
- IBM 10/100 EtherJe with 56K Modem	M 10/100 EtherJet Mini PCI Adapter -20GB HDD 27L34 th 56K Modem 19K5887 -32GB HDD 08K95								ility solutions cycle Care ²¹ provid	les		
	interchangeable accessories - Second HDD Adapter for Ultrabay 2000 08K6								fe cycle managem			
- 24X-10X CD-ROM	Ultrăbay	/ 2000 D		19K448	0 and transiti	on planning tools						
- 8X-2X DVD Ultraba	y 2000 Í	Orive	e devices) 02K866	0 . 0	AR compliant , User's Reference),						
- Zip 250MB Ultrabay - 2X SuperDisk (LS-1	/ 2000 D	rive aBay 20	rger 02K671	9 Windows m	nanual							
- 4X/4X/20X CD-Rea	d/Write	Ultrabay	I) 02K664		Web-based support Warranty Service							
- Ultrabay 2000 Li-lor	n battery	,	02K66	646 ⁻ ¦	hinkPad 72W / BM 340MB Mic		02K669 00N807	3 IBM System)	Ktra ^{®,20}			
- Travel Bezel for Ulti	•	JUU	08K60	³⁷⁰ -Т	hinkPad Monit	or Stand 2000	00N822	2 24 hour x 7 d	ay ¹⁸ toll-free hardv	ware		
Wireless connectivit		PC Car	d 128 09N9	₉₀₄ - II	BM Multi-Port U	JSB Hub	00N821	5 support du	ring the warranty			
- IBM Wireless LAN												
								-				

正派[®] ThinkPad[®] A21e (2655) - withdrawn

Type-model Process	or MHz Mem S	Screen	Disk	CD	CommunicaBay	Design	Mod	dular bay	Preload	Avail
2655-21U Celeron 2655-71U Celeron 2655-23U Celeron 2655-73U Celeron 2655-41U Celeron 2655-91U Celeron 2655-43U Celeron 2655-93U Celeron	650 64MB 1 650 64MB 1	12.1" SVGA 12.1" SVGA 12.1" SVGA 14.1" XGA 14.1" XGA 14.1" XGA	20GB 20GB 20GB 20GB 20GB 20GB	24X-10X CD 24X-10X CD 24X-10X CD 24X-10X CD	modem Intel® eth/mod Intel eth/mod modem modem Intel eth/mod	Two spind Two spind Two spind	le Ultr le Ultr le Ultr le Ultr le Ultr le Ultr	abay 2000 abay 2000 abay 2000 abay 2000	Windows® 98 SE Windows 2000 Windows 98 SE Windows 2000 Windows 98 SE Windows 2000 Windows 98 SE Windows 2000	Mar 01 Mar 01 Mar 01 Mar 01 Mar 01 Mar 01
Processor	Intel® Mobile Co	eleron™ 650	or 700	MHz ¹ with 10	0MHz system b	IIS.		WIN	DOWS 98 PRELO	ΔD14
_2 cache Memory	128KB / onboard	d (at processo / 256MB ma	or spee x ⁷ / SD	d) / ECC RAM / non-par	ity / 100MHz / PC	: 100/	۵	- Microsoft Edition ¹³ • ThinkPad	® Windows® 98 Se I Utilities	
Diskette drive CD or DVD-ROM Ultrabay 2000 Disk (removable) Display	None standard / Bootable / remo Modular bay for	optional USB vable from UI interchangea eable / S.M.A.) SVGA (800)	Portab trabay able de R.T./s	le Diskette Driv ™ 2000 vices / cold (sy supports 2nd dis FT color / Activ	e or Ultrabay 200 vstem off) swap o sk in opt HDD ada ve Matrix	00 diskette c		ConfigSaIBM UpdaAccess TPC-DoctoLotus® Sn	ate Connector™.15 hinkPad II	
Graphics controller Graphics - external	ATI® Rage™ Mo External SVGA t	bility-M / PC to 1024x768x	1 / 4ME 16.7 m	3 SDRAM / DD illion colors at 8	C2B 5Hz and up to 16			♦ Recovery♦ Disk-to-D	Selections CD-RC CD-ROM (Windowskisk Recovery (in h	ws 98 SI
Keyboard ThinkLight JltraPort™ connectr Case material	Illuminates the k None	eyboard to im	prove	visibility in low-	o-Select, Internet light conditions oer reinforced pla				OWS 2000 PRELO	
Dimensions ³ Approximate weight ²	Approximately 1 with battery and	2.0 x 10.4 x optional trav	1.4"; 30 el beze	05mm x 254mr el in Ultrabay 2	n x 35.6mm 000:	15110		WindowsThinkPadThinkPadConfigSa	l Assistant	15
Battery - type Battery - life ¹⁰ Charge time ¹⁰ - on / off	12.1" models NiMH 7-cell / into does not suppor 2.5 hrs (NiMH 7- 3.2 to 6 hrs / 3.2	elligent / supp t any battery -cell) / 3.0 hrs		IBM Update Connector Access ThinkPad II PC-Doctor Lotus SmartSuite Millennium Lotus Notes Client 5.0 license						
Port replicator Docking Station PC Card Std slots Ports	PCI1410 for Car USB) / PC97338 Optional ThinkF No support for T 1 Type I, 1 Type One USB (Versic (modem) / RJ-48	rdBus / PCI 2 B Super I/O / I Pad Port Rep ThinkPad Doo II, or 1 Type on 1.1) / one s 5 (ethernet) / I	.1 / 32- ISA (se licator k III / Car serial (s	-bit / 33MHz (gerial, parallel, e r rdBus 32-bit / F 9 pin) / parallel board or mouse		CardBus, au on) Zoomed Vid monitor / F	idio, deo	♦Software♦Recovery♦Recovery	Selections CD-RC CD-ROM (Window CD-ROM (Window lisk Recovery (in hi	M vs 2000 vs NT)
Other features Video in and out Communicatns Bay Modem Ethernet/modem	None Communication Some models: Some models:	s Bay with Mi 56K ⁶ V.90 Mi IBM 10/100 E	ini PCI ni PCI therJe	Illa slot / custo modem card /	Lucent® chip set dapter with 56K6			the following standard optional E optional Z	or optional CD-RO OVD drive	M
Audiosupport	PCI audio / Sour CS4299 AC97 o above keyboard	ndBlaster Pro codec / mono	o™ sup speake	port / Intel 440 er / 1.5 watt / vo	MX AC97 audio s lume up, down, i	mute buttor		optional Coptional Fdisk	CD-RW HDD adapter; for se	
Audio jacks Security Limited warranty ¹² Service options	Power-on passw 1 year - EasySe Service upgrade	rord / hard dis rv™.19 onsite ¡ es²² provide u	k passy bickup b to thre	word / supervise and delivery co ee years of ons	ck / no internal mi or password / sec ourier service site or depot repa g warranty period	curity keyho ir service	le	solutions		Bezel)
Options 64MB SO DIMM 10 128MB SO DIMM 1 256MB SO DIMM 1 256MB SO DIMM 1 ThinkPad Removal SuperDisk (LS-240 Zip 250MB Ultrabay 24X-10X CD-ROM 8X/4X/24X CD-RW 8X-2X DVD Ultrabay CD-RW/DVD Comf Travel Bezel for Ult Second HDD Adap 15GB HDD 30GB HDD 32GB HDD	00MHz NP SDRA 00MHz NP SDRA 01e Diskette Drive) UltraBay 2000 Dr v 2000 Drive Ultrabay 2000 Dri Ultrabay 2000 Drive po Ultrabay 2000 I rabay 2000	M 20L02 M 33L30 08K96 rive 08K96 00N82 ve 05K92 ive 08K95 27L34 Drive 08K95 08K60 00 08K60 08K95 08K95	555 TI 669 TI 616 M 253 TI 233 TI 669 Po 448 IE 6772 10 770 In 668 S 688 S	hinkPad Li-Ion hinkPad 72W A ultiple Li-Ion/N hinkPad Port R hinkPad Monitc ortable Drive B BM IEEE 1394 0/100 Enet /56 tel Pro/100 SP ervicePac 3yr I	Battery (2655), 6 Battery (2655), 6 AC Adapter iMH Battery Cha eplicator or Stand 2001 ay 2000 CardBus Card K Mini PCI (3Cor	6 cell 02 6 cell 02 02 02 02 22 22 19 19 00 30	K9276 K6742 K6743 K6699 K6719 K8667 P5265 K4480 K5679 N9774 P3801 L9195 L9192	Local and rement via a Managea IBM PC Life proactive and trans ENERGY Setup Guid Windows Personalize International IBM System 24 hour x 7	mpliant lanagement (WfM) emote asset mana the IBM Universal bility solutions ecycle Care ²¹ prov life cycle manager ition planning tools TAR compliant le, User's Reference manual ed Web-based sup al Warranty Service	ge ides ment s ce, port e ¹⁷

Supported in Ultrabay 2000 only. Requires HDD adapter 08K6068

Type-model Process	or MHz Mem Screen	Disk CD or DVD CommunicaBay	PreloadAvail	WINDOWS 98 PRELOAD14
2628-D1U Pentium 2628-D2U Pentium 2628-DWU Pentium 2628-E1U Pentium 2628-E2U Pentium 2628-EXU Pentium 2628-FXU Pentium 2628-FXU Pentium 2628-FXU Pentium 2628-GSU Pentium 2628-GSU Pentium 2628-GSU Pentium 2628-GXU Pentium 2628-G	1III 800 64MB 14.1" XGA 1III 800 64MB 14.1" XGA 1III 800 64MB 14.1" XGA 1III 800 64MB 14.1" XGA 1III 800 64MB 14.1" XGA	10GB*24X-10X*CD modem 10GB 24X-10X CD 3Com*eth/mod 10GB 24X-10X CD 3Com*eth/mod 10GB 8X-2X*PUD modem 10GB 8X-2X*DVD modem 10GB 8X-2X*DVD 3Com*eth/mod 10GB 8X-2X*DVD 3Com*eth/mod 10GB 8X-2X*DVD 3Com*eth/mod 10GB 8X-2X*DVD 3Com*eth/mod 10GB 24X-10X*CD 3Com*eth/mod 10GB 24X-10X*CD 3Com*eth/mod 10GB 24X-10X*CD 3Com*eth/mod 10GB 8X-2X*DVD 3Com*eth/mod 10GB 8X-2X*DVD 10tel**eth/mod 10GB 8X-2X*DVD 3Com*eth/mod 10GB 8X-2X*DVD	2000 Sep 00 98SE Sep 00	- Microsoft® Windows® 98 Second Edition¹³ • ThinkPad Utilities • ThinkPad Assistant™ • ConfigSafe® • IBM Update Connector™.¹⁵ • Access ThinkPad II • PC-Doctor™ - Lotus® SmartSuite® Millennium and Lotus Notes® Client 5.0 license ◆ Software Selections CD-ROM ◆ Recovery CD-ROM (Windows 98 SE) WINDOWS 2000 PRELOAD¹⁴ - Windows 2000 Professional¹³ • ThinkPad Utilities
Processor	Intel® Pentium® III 700, 750, 100MHz system bus	or 800MHz ^{1,24} with SpeedStep™ tec	hnology and	ThinkPad Assistant ConfigSafe®
L2 cache Memory	256KB / onboard (at processo 64 or 128MB standard / 512	r speed) / ECC MB max ⁷ / SDRAM / non-parity / 100M td memory in one socket / 1 socket a		IBM Update Connector Access ThinkPad II PC-Doctor
Diskette drive CD or DVD-ROM	3.5" 1.44MB / not removable Bootable / removable from Ul	rabay™ 2000 (modular bay)		- Lotus® SmartSuite® Millennium and Lotus Notes® Client 5.0 license Software Selections CD-ROM
Disk (removable) Display	12.1" (307.3mm) SVGA (800x		DD adapter	
	14.1" (358.1mm) XGA (1024x7 15.0" (381mm) XGA (1024x7	768) TFT color / Active Matrix 68) TFT color / Active Matrix		LINUX PRELOAD14
Graphics controller	Fxx/Gxx models: ATI Rage	TM Mobility M / AGP 2X / 4MB SDRAM Mobility M1 / AGP 2X / 8MB SDRAM	/ DDC2B	- Caldera® OpenLinux™ eDesktop 2.4
Graphics - external Keyboard		6.7 million colors at 85Hz and up to 16 FrackPoint®, Press-to-Select, Internet		Access ThinkPad II StarOffice Nataona Communicator
ThinkLight UltraPort™ connectr Cover		prove visibility in low-light conditions		Netscape Communicator OpenLinux eDesktop CD-ROM Recovery CD-ROM
Dimensions ³	Dxx/Exx/Gxx: approximately	12.7 x 10.7 x 1.47-1.73"; 317 x 267.5 x 13.2 x 10.7 x 1.5-1.79"; 329 x 267.5 x	x 36.7-43.3mm	The right have (Lillium have 2000) as you a site
Approximate weight ² Battery - type Battery - life ¹⁰	with CD or DVD drive and ba	tery: Dxx: 6.3 lb, Exx: 6.6 lb, Fxx: 7.0 supports unique 2nd battery in Ultrab	lb, <i>Gxx:</i> 6.8 lb	The right bay (Ultrabay 2000) supports the following: • standard or optional CD-ROM • standard or optional DVD drive
Port replicator Docking Station PC Card Std slots Ports	Intel 440BX AGPset / Intel P support, ISA Bridge, USB) / T PCI 2.1 / 32-bit / 33MHz (EID PC97338 Super I/O / ISA (dis Optional ThinkPad Port Rep Optional ThinkPad Dock (inc 2 Type II, 2 Type II, or 1 Type I USB: One (Version 1.1) / Seri external DB-15 monitor / infrai	graphics / on) / ol) State It slot) Immed Video / mouse /	 optional Zip drive optional second battery optional SuperDisk (LS-120) drive optional CD-RW optional HDD adapter; for second disk optional ThinkPad Proven™ solutions¹6 (such as Travel Bezel) 	
Video in and out Communicatns Bay Modem Ethernet/modem	Some models: 56K ⁶ V.90 Mir Some models: IBM 10/100 E (3Com ethernet chipset / Some models: IBM 10/100 E	ni PCÍ IIIb slot / customer accessible ii PCI modem card / Lucent® chip set hernet Mini PCI Adapter with 56K Mo	•	
Audio support	PCI audio / SoundBlaster Pro stereo speakers / .5 watt / volu input jack (3.5 mm) / output jac	™ support / CS4624 with CS4297A A me up, down, mute buttons / int micro k (3.5 mm) / line in	phone /	
Security Limited warranty ¹²	1 year - EasyServ™,19 onsite p	password / supervisor password / sec ickup and delivery courier service	, ,	72 watt AC Adapter
Service options		to three years of onsite or depot repa ad purchase (including warranty period		PC 99-compliant CIM and DMI 2.0 compliant
with 56K Modem b	et Mini PCI Adapter	- 10GB HDD 87 - 20GB HDD	DRAM 20L0255 DRAM 33L3069 08K9510 27L3439	Wired for Management 2.0 Local and remote asset manage ment via the IBM Universal Manageability solutions IBM PC Lifecycle Care ²¹ provides
- 24X-10X CD-ROM - 8X-2X DVD Ultraba - Zip 250MB Ultraba - 2X SuperDisk (LS- - 4X/4X/20X CD-Rea - Ultrabay 2000 Li-lo - Travel Bezel for Ult Wireless connectivit - IBM High Rate Wir	y 2000 Drive 00N82 120) UltraBay 2000 27L34 ad/Write Ultrabay 2000 00N82 n battery 02K66 rabay 2000 08K60 ty eless LAN PC Card 09N98	- Portable Drive Bay 2000 (accepts all Ultrabay 2000 storage) - ThinkPad Port Replicator - ThinkPad Dock - ThinkPad A Series Battery (9-ce) - ThinkPad 72W AC Adapter - IBM 340MB Microdrive - ThinkPad Monitor Stand 2000 163 - Asset ID RF Adapter	19K4480 ge devices) 02K8667 263110U	Setup Guide, User's Reference, Windows manual Asset ID™ wireless RF technology via replacing HDD access door Personalized Web-based support International Warranty Service ¹⁷ IBM SystemXtra®.20 24 hour x 7 day¹8 toll-free hardware
- IBIVI H Hate Wirele	ss LAN Access Point 9085N	A2 - IBM Multi-Port USB Hub	00N8215	support during the warranty

Type-model Proces	sor MHz	Mem	Screen	Disk	CD or DVD	Communications Bay		Preload	Available
2628-DSU Pentiur 2628-ESU Pentiur 2628-ETU Pentiur 2628-FSU Pentiur 2628-G8U Pentiur 2628-G8U Pentiur 2628-G7U Pentiur 2628-G9U Pentiur	n III 700 n III 700 n III 700 n III 750 n III 750 n III 800 n III 800 n III 800	64MB 64MB 64MB 64MB 64MB 64MB 64MB	12.1" SVGA 14.1" XGA 14.1" XGA 15.0" XGA 15.0" XGA 14.1" XGA 14.1" XGA 14.1" XGA	10GB 10GB 10GB 20GB 20GB 20GB 20GB 20GB	24X-10X° CD 24X-10X CD 8X-2X° DVD 8X-2X DVD 24X-10X CD 24X-10X CD 8X-2X DVD 8X-2X DVD 8X-2X DVD 8X-2X DVD 8X-2X DVD	Intel® ethernet/modem Intel ethernet/modem Intel ethernet/modem Intel ethernet/modem Intel ethernet/modem modem Intel ethernet/modem modem Intel ethernet/modem	Wind Wind Wind Wind Wind Wind Wind	ows 98 SE ows 2000 ows 98 SE ows 2000 ows 98 SE ows 2000 ows 98 SE, Small Business ows 98 SE, Small Business ows 2000, Small Business	Nov 2000 Nov 2000 Nov 2000 Nov 2000 Nov 2000 Nov 2000 Mar 2001 Mar 2001 Mar 2001 Mar 2001
Processor L2 cache Memory Diskette drive	100MHz 256KB / 64MB st two 144- 3.5" 1.44	system onboard tandard / pin SO-E MB/not r	bus (at processo 512MB max ² DIMM sockets removable	r speed // SDR/ s/ std m) / ECC AM / non-parity emory in one s	dStep™ technology and / 100MHz / PC 100 / ocket / 1 socket availab		windows 98 PREL - Microsoft® Windows® 98 S Edition¹³ - Some models: Office 2000 Business (Word, Excel, O Publisher, Small Business	Second Small utlook,
CD or DVD-ROM Disk (removable) Display	10 or 200 12.1" (30 14.1" (35	GB ⁸ / up <u>g</u> 77.3mm) (58.1mm)	gradeable / S.I SVGA (800x6 XGA (1024x7	M.A.̈R.T 00) TFT '68) TF	2000 (modular . / supports 2nd color / Active N color / Active M	l diśk in opt HDD adapte Matrix Matrix	r	Tools) preloaded and CD- • ThinkPad Utilities • ThinkPad Assistant™ • ConfigSafe® • IBM Update Connector™	
Graphics controller Graphics - external Keyboard	Dxx/Exx Fxx/Gxx External	models: models: SVGA to	ATI® Rage™ ATI Rage M 1024x768x10	Mobil Mobility 6.7 millio	ity M / AGP 2X M1 / AGP 2X / on colors at 85H	/ 4MB SDRAM / DDC2 8MB SDRAM / DDC2B z and up to 1600x1200 Gelect," Internet Scroll B		Access ThinkPad II PC-Doctor™ Lotus® SmartSuite® Millen Lotus Notes® Client 5.0 lic Software Selections CD-F	nium and ense
ThinkLight UltraPort™ connectr Cover Dimensions³	Illuminate None IBM Thin	es the ke kPad Ultr	yboard to imp aCarbon™ ca	rove vis se	ibility in low-ligh			Recovery CD-ROM (Wind WINDOWS 2000 PRE - Windows 2000 Profession	LOAD ¹⁴
Approximate weight ² Battery - type Battery - life ¹⁰	Fxx: app with CD	roximate or DVD c on 6-cell	ely 13.2 x 10.7 drive and batt	' x 1.5-1 ery: <i>Dx</i>	l .79"; 329 x 267 x: 6.3 lb, <i>Exx/G</i> ;	7.5 x 38.1-44.7mm xx: 6.6 lb, Fxx: 7.0 lb attery in Ultrabay 2000		- Some models: Office 2000 - Business (Word, Excel, O - Publisher, Small Business - preloaded and CD-ROM	0 Small utlook,
Port replicator Docking Station PC Card Std slots Ports	support, PCI 2.1 / PC97338 Optional Optional 2 Type I, USB: On	ISA Brid 32-bit / 3 8 Super I ThinkPa ThinkPa 2 Type II e (Versio	ge, USB) / TI 33MHz (EIDE /O / ISA (disk ad Port Repli ad Dock (incl I, or 1 Type III on 1.1) / Serial	PCI14 , CardE ette, se cator udes UI / CardE : one 9	I50 for CardBus Bus, audio, USE rial, parallel, inf trabay 2000 an Bus 32-bit / PCN pin / Parallel: oi	DMA/33 or PIO Mode 4 s / AGP 2X for graphics 3, ext expansion) / frared, ext exp) d half-size PCI slot) MCIA 2.1 / Zoomed Vide ne / keyboard / mouse / dem) / RJ-45 (ethernet)	90	 ThinkPad Utilities ThinkPad Assistant ConfigSafe® IBM Update Connector Access ThinkPad II PC-Doctor Lotus® SmartSuite® Millen Lotus Notes® Client 5.0 lic Software Selections CD-F 	ense
Video in and out Communicatns Bay Ethernet/modem Audio support Security Limited warranty*.12	Commur IBM 10/1 ethernet PCI audi stereo sp input jack Power-or 1 year - I	nications 00 Ether chipset / o / Sound beakers / c (3.5 mm n passwo EasyServ	rJet ^{†™} Mini PC 'Lucent® mod dBlaster Pro [™] .5 watt / volur n) / output jack ord / hard disk v ^{™,19} onsite pi	i PCÍ III I Adapt Iem chip M suppo me up, o (3.5 mr passwo ckup an	ort / CS4624 wit down, mute butt m) / line in rd / supervisor p id delivery couri	odem / Intel h CS4297A AC97 code ons / int microphone / password / security keyh er service		 Recovery CD-ROM (Wind Recovery CD-ROM (Wind The right bay (Ultrabay 2000 the following: standard or optional CD-R standard or optional DVD optional Zip drive optional Second battery optional SuperDisk (LS-12 	O) supports OM drive
Service options	Service u coverage	ipgrades e from da	²² provide up te of ThinkPad	to three d purcha	years of onsite ase (including w	or depot repair service varranty period)		optional CD-RW optional HDD adapter; for disk optional ThinkPad Proven solutions 16 (such as Trave)	second
Communication Ba - IBM 10/100 Ethers with 56K Modem b - IBM 10/100 Ethers with 56K Modem Ultrabay 2000 inter - 24X-10X CD-ROM - 8X-2X DVD Ultraba - Zip 250MB Ultraba - 2X SuperDisk (LS 4X/4X/20X CD-Re - Ultrabay 2000 Li-Ic - Travel Bezel for Ul Wireless connectiv - IBM High Rate Wirele	net Mini PC by 3Com Jet Mini PC changeabl I Ultrabay 2 ay 2000 Dr y 2000 Dr 120) Ultra ad/Write U by by by 2000 by 200	CI Adapte le access 2000 Driv rive ive Bay 2000 lltrabay 2	09N977 19K588 sories ve 05K923 27L344 00N825 0 27L345 00N825 02K664 08K607	- 12i - 25i - 10i - 20i - 32i - Se 8 - Po (ac - Th - Th - Th - Th - 1Bi - Th - 1Bi - Th - 1Bi - Th	BMB SO DIMM BMB SO DIMM GB HDD GB HDD COND HDD Adap Table Drive Bay Ecepts all Ultrabe EinkPad Port Rep EinkPad Dock	100MHz NP SDRAM 100MHz NP SDRA		IBM ImageUltra Services av IBM Rapid Restore PC avai protect software image ar Setup Guide, User's Refere Windows manual Asset ID™ wireless RF tech via replacing HDD access Personalized Web-based su International Warranty Serv 24 hour x 7 day¹8 toll-free has support during the warran	rage al vailable lable to nd data nce, unology s door upport ice ¹⁷ ardware

^{*} For a copy of IBM's Statement of Limited Warranty, call 1-800-772-2227 US models announced March 1, 2001 US models withdrawn effective April 2001 or April 2002

Type-model Processo			sk DVD			Avail	WINDOWS 98 PRELOAD14
2629-H1U Pentium 2629-HXU Pentium 2629-HSU Pentium 2629-H2U Pentium 2629-HWU Pentium 2629-HTU Pentium	III 850 128MB 15 III 850 128MB 15 III 850 128MB 15 III 850 128MB 15	"UXGA 32 "UXGA 32 "UXGA 32 "UXGA 32	GB 8X-2 GB 8X-2 GB 8X-2 GB 8X-2	2X 3Com® eth/mode 2X Intel® eth/modem 2X modem 2X 3Com eth/moder	98 SE 2000	Sept 00 Sept 00 Nov 00 Sept 00 Sept 00 Nov 00	Microsoft® Windows® 98 Second Edition¹³ ThinkPad Utilities ThinkPad Assistant™ ConfigSafe® IBM Update Connector™.15
Processor			MHz¹ wi	th Intel SpeedStep™	technology	y and	Access ThinkPad II PC-Doctor™
L2 cache Memory	3.3v / two 144-pin 9	at processo 512MB max SO-DIMM s	imum ⁷ / S	ECC SDRAM / non-parity / 28MB in one socket			Mediamatics DVD Express MGI VideoWare III (video editing) Lotus® SmartSuite® Millennium and
Diskette drive DVD-ROM Ultrabay 2000 Disk (removable)	3.5" 1.44MB / not re DVD-ROM / 8X-2X Modular bay for inte 32GB ⁸ / upgradeab	speed/boerchangeab	le device:	apter	Lotus Notes® Client 5.0 license Software Selections CD-ROM Recovery CD-ROM (Windows 98 SE)		
Display	, ,	•		Color / Active Matri			WINDOWS 2000 PRELOAD ¹⁴ - Windows 2000 Professional ¹³
Graphics controller Graphics - external	Supports external of the optional dock	digital monit king solutio	or⁵ via the ıs / DDC2	6MB SGRAM / 128-b e Digital Video Interfa 2B / n colors at 85Hz and	cė (DVI) por	t on either	ThinkPad Utilities ThinkPad Assistant ConfigSafe® IBM Update Connector
Keyboard ThinkLight™ UltraPort™ Case material	ThinkPad Button Illuminates the keyl UltraPort connecto	palm rest / poard to imp r on top of c	TrackPo prove visi isplay for	int®, Press-to-Select, bility in low-light cond options such as digit anced strength⁴ and	Internet Scr itions al Ultraport (oll Bar Camera	Access ThinkPad II PC-Doctor Mediamatics DVD Express MGI VideoWare III (video editing)
Dimensions ³ Approximate weight ² Battery - type Battery - life ¹⁰ Charge time ¹⁰ - on / off	with DVD drive and Lithium Ion 9-cell / 4 hours	battery: 7. intelligent /	3 lb (3.45)	29mm x 267.5mm x 3 kg) unique 2nd battery ir			- Lotus® SmartSuite® Millennium and Lotus Notes® Client 5.0 license
Architecture	ISA Bridge, USB) / PCI 2.1 / 32-bit / 33 PC97338 Super I/C	TI® PCI145 MHz (EIDE) / ISA (disk	0 for Car , CardBu ette, seria	DE with Ultra DMA/33 dBus / AGP 2X for gr s, audio, USB, ext ex al, parallel, infrared, e	aphics / pansion) /	e 4 support	,
Port replicator Docking Station PC Card Std slots Ports Other features	Optional ThinkPad Optional ThinkPad 2 Type I, 2 Type II, USB: One (Version external DB-15 mo 72 watt AC Adapte	Dock (incl or 1 Type I 1.1) / Seria nitor / infrar	use /	The right bay (Ultrabay 2000) supports the following: • standard or optional CD-ROM • standard or optional DVD drive • optional Zip drive			
Video in and out Communicatns Bay Modem Ethernet/modem	S-video in and S-vi / video out cable in Communications B Some models: 56 Some models: IBN eth Some models: IBN	deo out / tw cluded (S-v ay with Min 6 V.90 Min 1 10/100 Et ernet chips	3Com	optional second battery optional SuperDisk (LS-120) drive optional CD-RW optional HDD adapter; for second disk optional travel bezel optional ThinkPad Proven™ solutions¹6			
Audio support Security	stereo speakers / .! input jack (3.5 mm)	5 watt / volu / output jac	me up, do k (3.5 mr	/ CS4624 with CS42 own, mute buttons / ir m) / line in jack rd / supervisor password	iternal micro	phone /	PC 99-compliant CIM and DMI 2.0 compliant Wired for Management 2.0
Limited warranty ¹² Service options	3 years - EasyServ Service upgrades ²²	тм,19 onsite provide up	ickup an to three	d delivery courier serve years of onsite or dep se (including warrant	vice ot repair ser		Local and remote asset manage ment via the IBM Universal Manageability solutions IBM PC Lifecycle Care ²¹ provides
- UltraPort Array Mic - UltraPort Compact - IBM IEEE 1394 Ca - IBM 1GB Microdriv	Flash Reader IrdBus Card	20L0254 20L0255 33L3069 04P6135 02K8667	proactive life cycle management and transition planning tools ENERGY STAR compliant				
with 56K Modem	et Mini PCI Adapter y 3Com et Mini PCI Adapter	263110U 02K6640 02K6699 02K6719 02K6643	Asset ID™ wireless RF technology (via replacing HDD access door) Personalized Web-based support International Warranty Service¹7 IBM SystemXtra®.20				
		33L5075 08K6064 00N8222	24 hour x 7 day ¹⁸ toll-free hardware support during the warranty				
- 4X/4X/20X CD-Rea - 250MB Zip Ultraba - Ultrabay 2000 Li-lo - Travel Bezel for Ult	ad/Write Ultrabay 200 y 2000 Drive n battery rabay 2000	27L345 00 00N825 00N825 02K664 08K607	08K9510 27L3439 08K9511 08K6068				
- IBM H Rate Wirele	ty reless LAN PC Card ress LAN Access Poir I (available 4Q 2000)		3 - Þortal 2 - IBM 3	d a second disk, a Se ble Drive Bay 2000* 40MB Microdrive ots Ultrabay 2000 stor		dpr req) 19K4480 00N8073	

Type-model Processo	or MHz Mem Screen Graphics Disk CD Comm Bay Design Mo	odular bay Preload Available				
2655-25U Celeron™ 2655-75U Celeron 2655-27U Celeron 2655-77U Celeron	800 64MB 13.1" XGA ATI	rabay™ 2000Windows® 98 SE Jun 2001 rabay 2000 Windows 2000 Jun 2001 rabay 2000 Windows 98 SE Jun 2001 rabay 2000 Windows 2000 Jun 2001 rabay 2000 Windows 98 SE Jun 2001				
Processor L2 cache Memory	Intel® Mobile Celeron™ 800 or 850MHz¹ with 100MHz Front Side Bus or Intel Mobile Pentium® III 850MHz with Speedstep™ Technology with 100MHz Front Side Bus Celeron: 128KB / onboard (at processor speed) / ECC Pentium III: 256KB / onboard (at processor speed) / ECC Celeron: 64MB standard / 256MB max ⁷ Pentium III: 64MB standard / 512MB max ⁷ SDRAM / non-parity / 100MHz / PC100 / two 144-pin SO-DIMM sockets / std memory in one socket / 1 socket available	OPERATING SYSTEM PRELOAD 14,27 Windows 98 models - Microsoft® Windows® 98 Second Edition 13 ◇ Disk-to-Disk Recovery (in hidden Service Partition) Windows 2000 models - Windows 2000 Professional				
Diskette drive CD or DVD-ROM Ultrabay 2000 Disk (removable)	None standard / optional USB Portable Diskette Drive or Ultrabay 2000 diskette drive Bootable / removable from Ultrabay™ 2000 Modular bay for interchangeable devices / cold (system off) swap only 15GB³ or 30GB / 9.5mm / upgradeable / S.M.A.R.T. / 2nd disk support in Ultrabay	Windows 2000 Frolessional Disk-to-Disk Recovery to Windows 2000 or Windows NT 4.0 (in hidden Service Partition)				
Display	13.1" (337.8mm) XGA (1024x768) TFT color / Active Matrix	ADDITIONAL PRELOADED				
Graphics controller Graphics - external Keyboard	2xx/7xx: ATI® Rage™ Mobility-M / PCI / 4MB SDRAM / DDC2B 4xx/9xx: S3 Savage™ IX8+ / AGP 2X / 8MB SGRAM / 64-bit path to memory External SVGA to 1024x768x16.7 million colors at 85Hz and up to 1600x1200 85-key / ThinkPad Button / palm rest / TrackPoint®, "Press-to-Select," Internet Scroll	SOFTWARE Common to all models ThinkPad Utilities ThinkPad Assistant M				
ThinkLight UltraPort™ connectr Case material	Bar / pitch: 19mm; stroke: 2.7mm Illuminates the keyboard to improve visibility in low-light conditions None Color: black; Top: ABS plastic; Bottom: glass-fiber reinforced plastic	ThinkPad Assistant™ ConfigSafe® IBM Update Connector™.15 Easy Keys Utility Access ThinkPad II				
Dimensions ³	Approximately 12.0 x 10.0 x 1.4"; 305mm x 254mm x 35mm	PC-Doctor™ Lotus® SmartSuite® Millennium and				
Approximate weight ² Battery - type	with battery and CD-ROM: 5.7 lbs / 2.1 kgs NiMH 7-cell / 8.4V 4.5AH / intelligent / supports optional Li-lon battery /	Lotus Notes® Client 5.0 license				
Battery - life ¹⁰ Charge time ¹⁰ - on / off AC adapter	no support for Ultrabay 2000 battery 3.0 hrs (Li-Ion 6-cell) / optional NiMH battery supported only on Celeron models 3.2 to 6 hrs / 3.2 hrs Universal 72 watt / 16VDC 4.5A					
Architecture Port replicator Docking Station PC Card Std slots Ports	Intel 440MX PCIset (82443MX) / combines Host Bridge and PIIX4 in single chip / TI [®] PCI1410 for CardBus / PCI 2.1 / 32-bit / 33MHz (graphics, EIDE, CardBus, audio, USB) / PC97338 Super I/O / ISA (serial, parallel, external expansion) Optional ThinkPad Port Replicator No support for ThinkPad Dock 1 Type I, Type II, or Type III / CardBus 32-bit / PCMCIA 2.1 / no Zoomed Video One USB (Version 1.1) / one serial (9 pin) / parallel / external DB-15 monitor / RJ-11	The right bay (Ultrabay 2000) supports				
Video in and out Communicatns Bay Modem Ethernet/modem Audio support	None Communications Bay with Mini PCI IIIa slot / customer accessible Some: 56K ⁶ V.90 Mini PCI modem card / Lucent® chip set Some: Intel® PRO/100 SP Mobile Combo Adapter / Mini PCI ethernet with 56K modem / Intel 82550EY ethernet chipset / Lucent modem chipset PCI audio / SoundBlaster Pro™ support / Intel 440MX AC97 audio support with CS4299 AC97 codec / mono speaker / 1.5 watt / volume up, down, mute buttons above keyboard Microphone (3.5 mm) / speaker out (3.5 mm) / line in (3.5mm) / no int microphone Power-on password / hard disk password / supervisor password / security keyhole	the following: • standard or optional CD-ROM • optional DVD drive • optional Zip drive • optional SuperDisk drive • optional CD-RW • optional HDD adapter; for second disk • optional ThinkPad Proven™ solutions¹6 (such as Travel Bezel) • no support for battery on the A22e 2655				
Limited warranty*,12 Service options	1 year - EasyServ™¹9 onsite pickup and delivery courier service Service upgrades²² provide up to three years of onsite or depot repair service coverage from date of ThinkPad purchase (including warranty period)	optional diskette				
ThinkPad Removal SuperDisk (LS-240) Zip 250MB Ultrabay 24X-10X CD-ROM 8X/4X/24X CD-RW 8X-2X DVD Ultraba CD-RW/DVD Comb Travel Bezel for Ultr Second HDD Adapt 15GB HDD 30GB HDD 32GB HDD*	00MHz NP SDRAM 00MHz NP SDRAM 01 Diskette Drive 01 Diskette Drive 02 DitraBay 2000 Drive 04 Ditrabay 2000 Drive 05 Ultrabay 2000 Drive 05 Ultrabay 2000 Drive 05 Ultrabay 2000 Drive 06 Ultrabay 2000 Drive 07 Drive 08 Drive 0	PC 99-compliant PXE 2.0-compliant Wired for Management (WfM) 2.0 Local and remote asset manage ment via the IBM Universal Manageability solutions IBM PC Lifecycle Care ²¹ provides proactive life cycle management and transition planning tools Setup Guide, User's Reference, Windows manual Personalized Web-based support International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free hardware support during the warranty				

^{*} For a copy of IBM's Statement of Limited Warranty, call 1-800-772-2227 US models announced June 2001 US models withdrawn from marketing effective November 2001

	essor MHz	Mem	Screen		Optical	Spindles	Modular Bay		nm Bay	Preload	Available		
2628-PSU Pentii 2628-P2U Pentii 2628-P2U Pentii 2628-QTU Pentii 2628-Q2U Pentii 2628-Q2U Pentii 2628-R2U Pentii 2628-R2U Pentii 2628-R2U Pentii 2628-STU Pentii 2628-SSU Pentii 2628-SSU Pentii 2628-SSU Pentii 2628-SSU Pentii 2628-TSU Penti	um III 800 um III 800 um III 800 um III 800 um III 850 um III 850 um III 900 um III 900 um III 1GHz	2 128MB 2 128MB 2 128MB 2 128MB 2 128MB 2 128MB 2 128MB 2 128MB	14.1" XGA	30GB 30GB 30GB 30GB 30GB 30GB	CD CD CD CD CD DVD DVD DVD DVD DVD DVD D	3 spindle		Intel Immode Imm	em eth/mod eth/mod em eth/mod eth/mod eth/mod eth/mod eth/mod eth/mod em eth/mod eth/mod eth/mod eth/mod eth/mod eth/mod eth/mod em em em em em en	Windows 92000 Windows 98 SE Windows 2000 Windows 98 SE	Apr 2001		
Processor	Intel® Penti			Hz'or 1	.0GHz'	with Speed	Step™ techno	logy		INDOWS 98 PREL			
L2 cache Memory	256KB / onl	board (at p	processor spe			/ non-parity	y / 100MHz / P0	C 100 /	Edition		cond		
Diskette drive CD DVD-ROM Disk (removable)	two 144-pin 3.5" 1.44MB Some: CD-F Some: DVD 10, 20 or 30 12.1" (307.3 14.1" (358.1	SO-DIMN 7/not remo ROM / 24) 9-ROM / 80 9-ROM / 80 9-RO	M sockets / std vable <-10X ⁹ speed / X-2.3X ⁹ speed radeable / S.M A (800x600) T A (1024x768) 1	memo / bootak / boota .A.R.T. FT colo	ole / remotible / remotible / remotible / remotible / remotible / support	socket / 1 s covable from novable fron ts 2nd disk in the Matrix the Matrix	Ultrabay™ 200 n Ultrabay 200 n opt HDD adap	e 00 0 0 oter	ThinkP ConfigS IBM Up Access PC-Doo Lotus® Lotus N ⇔Disk-to	odate Connector ^{TM,15} ThinkPad II ctor TM SmartSuite® Millen Notes® Client 5.0 lic -Disk Recovery (in	nium and		
Graphics controller	Pxx/Qxx/Rx Sxx/Txx:		I® Rage™ Mob I Rage Mobilit							Service Partition)	2.24.07		
Graphics - external	External SV	GA to 128	0x1024x16.7N	l colors	at 75Hz	at 75Hz and	d up to 1600x12	00		NDOWS 2000 PREI ws 2000 Profession			
Keyboard			2.7mm / Think o-Select," Inte			alm rest /			 ThinkP 	ad Utilities ad Assistant	u.		
ThinkLight UltraPort™ connectr		he keyboa	ard to improve	visibility	/ in low-li	ght condition	ns		 Configs 	Safe® _			
Dimensions ³ Approximate weight ² Battery - type Battery - life ¹⁰ Architecture	w/ bat. and Lithium Ion Sxx: 3.0 hor Intel 440BX support, ISA PCI 2.1 / 32	weight sa 6-cell / into urs; <i>Pxx/O</i> (AGPset A Bridge, U -bit / 33M	elligent / suppo Dxx/Rxx/Txx: 3 / Intel PIIX4M	CAXX/F orts uni 5.5 hour (EIDE 1450 fo dBus, a	Rxx: 6.3 ll que 2nd rs with Ultra or CardB audio, Us	o, Sxx: 6.6 lb battery in U a DMA/33 o us / AGP 2) SB, ext expa	r PIO Mode 4 K for graphics /		IBM Update Connector Easy Keys Utility Access ThinkPad II PC-Doctor Lotus® SmartSuite® Millennium and Lotus Notes® Client 5.0 license Disk-to-Disk Recovery to Windows 2000 or Windows NT 4.0 (in hidden Service Partition)				
Port replicator Docking Station PC Card Std slots Ports	Optional Th Optional Th 2 Type I, 2 T USB: One (\(^1\) external DB	inkPad PoinkPad D Type II, or Version 1. -15 monito	ort Replicator ock (includes 1 Type III / Car 1) / Serial: one or / infrared (4N	r Ultraba dBus 3 9 pin /	ay 2000 a 2-bit / P0 Parallel:	and half-size DMCIA 2.1 / one / keybo	e PCI slot) Zoomed Video ard / mouse /)	The right • standa • standa	bay (Ultrabay 2000 rd or optional CD-Re rd or optional DVD o	ÓM . drive		
Video in and out Communicatns Bay Modem Ethernet/modem	Some: 56 Some: IBI eth Some: Int	ations Bay K ⁶ V.90 M M 10/100 nernet chi tel [®] PRO/1	no S-Video in) with Mini PCI lini PCI moder Ethernet Mini pset / 3Com m I 00 SP Mobile / Intel 82550E	n card / PCI Ad odem o Combo	Lucent® apter wit chip set) c Adapte	chip set h 56K Mode r / Mini PCI	em (3Com®	et	optionaoptionaoptionadiskoptionaoptiona	optional SuperDisk (LS-120) drive optional Zip drive optional CD-RW optional CD-RW/DVD Combo optional HDD adapter; for second			
Audio support Security	stereo spea input jack (3	kers / .5 w .5 mm) / o	att / volume up utput jack (3.5	, down mm) / li	, mute bu ne in	uttons /	'A AC97 codec		72 watt A	ns ¹⁶ (such as Travel AC Adapter Impliant DMI 2.0 compliant	Bezei)		
Limited warranty*,12	1 year -Eas	yServ™,19	onsite pickup a	and deli	very cou	rier service		-	Wired for	Management 2.0			
G4MB SO DIMM 10 128MB SO DIMM 10 128MB SO DIMM 1 256MB SO DIMM 1 2X SuperDisk (LS-Zip 250MB Ultrabay 24X-10X CD-ROM 8X/4X/24X CD-RW 8X-2X DVD Ultrabay CD-RW/DVD Comb Travel Bezel for Ult Second HDD Adap 10GB HDD 20GB HDD 32GB HDD	coverage from the coverage of	om date of DRAM DRAM DRAM 2000 0 Drive 00	33L3069 TJ 27L3451 M 00N8253 TJ 05K9233 TJ 08K9569 TJ 27L3448 P 08K9572 R 08K6070 IE 08K6068 10 08K9510 II 27L3439 S	chase (in hinkPachinkPa	Including Id A Serie 2000 Li-I Id 72W AI Li-Ion/Nill Id Port Re Id Dock Id Monitor Drive Ba Id Borve Id 1394 C Inet /56K Id 0 SP Id 3yr IC	warranty persist Battery on battery C Adapter MH Battery Persistence of the persistence o	eriod) 02 02 02 Charger 02 26 22 19 27 rd 19 9Com) 09 0 30	K6640 K6646 K6699 K8667 3120U P5265 K4480 L0530 K5679 N9774 P3801 L9195 L9192	ment v Manag IBM Imag IBM Rap protect Setup Gu Windov Asset ID' via rep Personal Internatic 24 hour x	d remote asset mar ia the IBM Universa eability solutions geUltra Services av id Restore PC avail t software image an uide, User's Referel ws manual ™ wireless RF tech lacing HDD access ized Web-based su onal Warranty Servic 7 day¹³ toll-free hat t during the warrant	allable able to d data nce, nology door pport ce ¹⁷ rdware		

Type-model	Processor MHz	Mem	Screen	Disk	Optical	Spindles	Modular Bay	Comm Bay	Wireless	Preload	Available
	Pentium III 900 Pentium III 900 Pentium III 1GHz Pentium III 1GHz	64MB 128MB	14.1" XGA 14.1" XGA	10GB 30GB	CD DVD	3 spindle 3 spindle	Ultrabay 2000 Ultrabay 2000	Intel eth/mod Intel eth/mod	802.11b 802.11b	Windows® 2000 Windows 98 SE Windows 2000 Windows 98 SE	May 2001 May 2001 May 2001 May 2001

Processor		or 1.0GHz¹ with SpeedStep™ technology and	OPERATING SYSTEM PRELOAD ^{14, 27}								
L2 cache Memory	100MHz Front Side Bus 256KB / onboard (at proces 64MB or 128MB standard / two 144-pin SO-DIMM sock	or speed) / ECC 12MB max ⁷ / SDRAM / non-parity / 100MHz / PC 100 s / std memory in one socket / 1 socket available	Windows 98 models - Microsoft® Windows® 98 Second Edition¹³ → Disk-to-Disk Recovery								
Diskette drive CD DVD-ROM Disk (removable)	Some: DVD-ROM / 8X-2.3X	.5° 1.44MB / not removable Some: CD-ROM / 24X-10X° speed / bootable / removable from Ultrabay™ 2000 Some: DVD-ROM / 8X-2.3X° speed / bootable / removable from Ultrabay 2000 0 or 30GB° / upgradeable / S.M.A.R.T. / supports 2nd disk in opt HDD adapter									
Display		768) TFT color / Active Matrix	♦ Disk-to-Disk Recovery to								
Graphics controller Graphics - external	ATI® Rage™ Mobility M1 / A	·	Windows 2000 or Windows NT 4.0 (in hidden Service Partition)								
Keyboard ThinkLight UltraPort™ connectr	pitch: 19mm; stroke: 2.7mm Illuminates the keyboard to ir	TrackPoint®, "Press-to-Select," Internet Scroll Bar / prove visibility in low-light conditions	Common to most models ThinkPad Utilities ThinkPad Assistant™ ConfigSafe®								
Dimensions ³ Approximate weight ² Battery - type Battery - life ¹⁰ AC adapter	12.5 x 10.5 x 1.5-1.8" With batteryand weight save	telligent / supports unique 2nd battery in Ultrabay 20	IBM Update Connector™.¹⁵ Easy Keys Utility Access ThinkPad II PC-Doctor™ Mediamatics™ DVD (DVD models)								
Architecture Port replicator Docking Station PC Card Std slots Ports	Intel 440BX AGPset / Intel support, ISA Bridge, USB) / PCI 2.1 / 32-bit / 33MHz (EII PC97338 Super I/O / ISA (di Optional ThinkPad Port Re Optional ThinkPad Dock (ir 1 Type I, 2 Type II, or 1 Type Zoomed Video (supported or USB: One (Version 1.1) / Sei DB-15 external analog monit	- Lotus® SmartSuite® Millennium and Lotus Notes® Client 5.0 license									
Video in and out Wireless Communicatns Bay Ethernet/modem	PC card in non accessible P Communications Bay with M	ni PCI IIIb slot / customer accessible mbo Adapter / Mini PCI ethernet with 56K modem /	The right bay (Ultrabay 2000) supports:								
Audio support Security	stereo speakers / .5 watt / vo input jack (3.5 mm) / output ja		optional CD-RW/DVD Combo optional HDD adapter; for second disk optional second battery								
Limited warranty*,12 Service options	1 year -EasyServ ^{TM,19} onsite Service upgrades ²² provide u	ckup and delivery courier service to three years of onsite or depot repair service d purchase (including warranty period)	optional ThinkPad Proven™ solutions¹⁶ (such as Travel Bezel)								
256MB SO DIMM 1 SuperDisk (LS-240 Zip 250MB Ultrabay 24X-10X CD-ROM 8X/4X/24X CD-RW 8X-2X DVD Ultraba CD-RW/DVD Comb Travel Bezel for Ultraba	00MHz NP SDRAM 00MHz NP SDRAM 33L3 08K9 2000 Drive 00N8 00K9 Ultrabay 2000 Drive 05K9 00X00 Drive 05 Ultrabay 2000 Drive 05 Ultrabay 2000 Drive 05 Ultrabay 2000 Drive 05 Ultrabay 2000 Drive 06K9 08K9	55 Ultrabay 2000 Li-Ion battery 02K664 69 ThinkPad 72W AC Adapter 02K665 166 Multiple Li-Ion/NiMH Battery Charger 02K67 33 ThinkPad Port Replicator 02K866 33 ThinkPad Dock 26312C 39 ThinkPad Monitor Stand 2001 22P526 48 Portable Drive Bay 2000 19K446 70 Wireless LAN Access Point 09N990 18M IEEE 1394 CardBus Card 19K56 38 ServicePac 3yr IOR 9x5 NBD 30L918 38 ServicePac 3yr P&L P/U Depot 30L918	Wired for Management 2.0 Local and remote asset manage ment via the IBM Universal Manageability solutions IBM ImageUltra Services available IBM Rapid Restore PC available to protect software image and data Setup Guide, User's Reference, Windows manual								

Type-model Process	or MHz	Mem Screen	Disk Optic	al Spindles	Modular Bay	Comm Bay	Wireless	Preload	Available	
2628-QUU Pentium 2628-QVU Pentium 2628-T7U Pentium 2628-T8U Pentium 2628-TUU Pentium 2628-QRU Pentium 2628-QRU Pentium 2628-VRU Pentium 2628-TRU Pentium	n III 800 (n III 1GHz : n III 1GHz : n III 1GHz : n III 1GHz : n III 800 (n III 900 (128M 14.1" XGA 128M 14.1" XGA 128M 14.1" XGA 64MB 12.1" SVG 64MB 14.1" XGA	A 20G CD 30G DVI 30G DVI 30G DVI 30G DVI A 20G CD 10G CD	3 spindle	Ultrabay 2000 Ultrabay 2000 Ultrabay 2000 Ultrabay 2000 Ultrabay 2000 Ultrabay 2000 Ultrabay 2000 Ultrabay 2000 Ultrabay 2000 Ultrabay 2000	modem modem Intel ® eth/mod Intel eth/mod Intel eth/mod Intel eth/mod	802.11b	Windows® 98 SE Windows 2000 Windows 98 SE Windows 2000 Windows 2000 Windows 2000 Windows 2000 Windows 2000 Windows 2000	SB Apr 2001 SB Apr 2001 SB Apr 2001 SB Apr 2001 SB Apr 2001 SB Apr 2001 XP Aug2001 XP Aug2001 XP Aug2001	
Positioning Processor L2 cache Memory	Intel® Pen and 100M 256KB / o 64MB or two 144-p	Ilternatives cover Itium® III 800MH IHz front side bu Inboard (at proce 128MB standard in SO-DIMM soc	z ¹ , 900MHz, o s ssor speed) / / 512MB max cets / std mem	o r 1GHz¹ wi ECC 7 / SDRAM.	th SpeedStep™ / non-parity / 10	technology 0MHz / PC 100	Windo - Micr - Editi ⇒ Disk	RATING SYSTEM bws 98 models osoft® Windows® on ¹³ -to-Disk Recover iddenService Par	98 Second	
Diskette drive CD DVD-ROM Disk (removable) Display Graphics controller	Some: CD Some: DV 10, 20 or 3 Qxx: Txx/Vxx: 1 Qxx: Txx/Vxx: 1	IB / not removable D-ROM / 24X-10X 'D-ROM / 8X-2.3. 30GB³ / upgradea 12.1" (307.3mm) 14.1" (358.1mm) ATI® Rage™ Mob ATI Rage Mobiliti	general speed spee	Windo - Windo - Disk Windo (in h	bws 2000 models dows 2000 Profes -to-Disk Recoven dows 2000 or Win idden Service Par TIONAL PRELOA WARE	sional ¹³ y to dows NT 4.0 tition)				
Graphics - external Keyboard ThinkLight UltraPort™ connectr	Pitch: 19m TrackPoin Illuminates None	nm / stroke: 2.7m ht®, "Press-to-Sels the keyboard to	m / ThinkPad ect," Internet S	- Micr Busi Pub	2000 SB models osoft Office 2000 ness (Word, Exce isher, Small Busine e 2000 Small Busine	Small el, Outlook, ness Tools)				
Dimensions ³ Approximate weight ² Battery - type Battery - life ¹⁰ Architecture Port replicator Docking Station PC Card Std slots	with batter Lithium lor 3.5 Hours Intel 440E support, IS PCI 2.1/3 PC97338 Optional T Optional T	5 x 1.5-1.8" ry and weight say n 6-cell / intellige BX AGPset / Inte SA Bridge, USB) 32-bit / 33MHz (E Super I/O / ISA (c hinkPad Pock (c Type II, or 1 Type II, or 1 Type III, or 1 Type IIII, or 1 Type IIII, or 1 Type IIII, or 1 Type IIII, or 1 Type IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	- Micr Busi Pub Doffice Comn Thin Con IBM	Office XP SB models (XP) - Microsoft Office XP Small Business ²⁸ (Word, Excel, Outlook Publisher, Small Business Tools) ⇒ Office XP Small Business CD Common to all models - ThinkPad Utilities - ThinkPad Assistant™ - ConfigSafe® - IBM Update Connector™.15						
Ports Video in and out Wireless Communicatns Bay Modem Ethernet/modem	external D Txx: S Vxx: I Communic Some: S Some: I	(Version 1.1) / So B-15 monitor / inf S-Video out (no S- Integrated 802.1 mplemented with cations Bay with 56K° V.90 Mini PC BM 10/100 Ether	rared (4Mbps) Video in) 1b network ir PC card in no Mini PCI IIIb s I modem car net Mini PCI A	/RJ-11 (monterface with accessible for accessible f	th antenna in colle PC Card slot ner accessible chip set n 56K Modem (3	over /	Acce PC-I Med Lice Mille 5.0	Easy Keys Utility Access ThinkPad II PC-Doctor™ Mediamatics™ DVD (DVD models) License for Lotus® SmartSuite® Millennium and Lotus Notes® Clier 5.0		
Audio support Security Limited warranty*,12 Service options	PCI audio stereo spe input jack (Power-on 1 year -Ea Service up	ethernet chipset / / SoundBlaster F sakers / .5 watt / v (3.5 mm) / output password / hard c asyServ ^{TM,19} onsite ggrades ²² provide from date of Think	standon standon standon optico	ht bay (Ultrabay 2 dard or optional CI dard or optional DV nal SuperDisk (LS nal Zip drive nal CD-RW/DVD (nal HDD adapter nal Second batter) nal ThinkPad Provions ¹⁶ (such as Tra	D-RÓM VD drive 6-120) drive Combo Ven™					
Options 64MB SO DIMM 10 128MB SO DIMM 1 256MB SO DIMM 1 SuperDisk (LS-240 Zip 250MB Ultrabay 24X-10X CD-ROM 8X/4X/24X CD-RW 8X-2X DVD Ultraba CD-RW/DVD Comb Travel Bezel for Ultr Second HDD Adap 15GB HDD 30GB HDD 32GB HDD 48GB HDD (5400 r	00MHz NP 00MHz NP 00MHz NP 1 UltraBay 2 7 2000 Drive Ultrabay 20 10 Ultrabay 10 Ultrabay 10 Ultrabay 10 Ultrabay 10 Ultrabay 10 Ultrabay 10 Ultrabay	SDRAM 33L SDRAM 33L S0000 Drive 08K 0 000 Drive 05K 000 Drive 08K 27L 2000 Drive 08K 08K 08K 08K 08K	Jeff Portable Williams Portable Williams Portable Williams Portable Williams Portable Wireles (6070) IBM IE Service South Portable Wireles (6068) Service Portable Williams	ay 2000 Li-lo Pad 72W AC e Li-lon/NiM Pad Port Rep Pad Dock Pad Monitor le Drive Bay ss LAN Acc EE 1394 Ca PPac 3yr IO	C Adapter MH Battery Char plicator Stand 2001 / 2000	02K664 02K664 02K669 ger 02K671 02K866 263120 22P526 19K448 09N990 19K567 30L9192	72 wat PC 99-CIM ar Wired Local a Man IBM Im 77 IBM R: Proto Setup Wind Asset via ri Person Interna 24 hou	t AC Adapter compliant and DMI 2.0 compliant of DMI 2.0 compliant for Management 2 and remote asset it via the IBM Univageability solution lageUltra Service apid Restore PC a lect software image Gows manual D™ wireless RF teplacing HDD accusalized Web-base witonal Warranty Sir x 7 day¹⁵ toll-frecort during the war	ant 2.0 manage ersal s s available tvailable to e and data erence, echnology ess door d support ervice ¹⁷ e hardware	

Type-model Proces	sor MHz	Memory	Screen	Disk	Optical	Spindles	Modular Bay	Comm	Вау	Preload	Available			
2629-U2U Pentiur 2629-UVU Pentiur 2629-UVU Pentiur 2629-UVU Pentiur 2629-Y1U Pentiur 2629-Y2U Pentiur 2629-YVU Pentiur 2629-Y	m III 1GHz m III 1GHz m III 1GHz m III 1GHz m III 1GHz	128MB 128MB 128MB 128MB 128MB 128MB 128MB 128MB 128MB 128MB 128MB	15.0" UXGA 15.0" UXGA	32GB 32GB 32GB 32GB 32GB 32GB 32GB 32GB	CD-RW CD-RW CD-RW CD-RW CD-RW CD-RW CD-RW DVD DVD CD-RW	3 spindle 3 spindle	Ultrabay 200 Ultrabay 200 Ultrabay 200 Ultrabay 200 Ultrabay 200 Ultrabay 200 Ultrabay 200 Ultrabay 200	Moden	th/mod n/mod n/mod n/mod n/mod n/mod n/mod n/mod n/mod	Windows 2000, \$B Windows 98 SE Windows 2000 Windows 2000, XP Windows 2000, XP Windows 98 SE Windows 98 SE Windows 98 SE Windows 2000 Windows 98 SE Windo				
Positioning Processor L2 cache Memory Diskette drive CD-RW DVD-ROM	Intel® Mob and 100M 256KB / o 128MB sta 3.3v / two 3.5" 1.44M Some: C Some: D	pile Penti Hz Front nboard (a andard / 5 144-pin S 1B / not re D-RW / 8 DVD-ROM	3X-4X-24X ⁹ sp 1 / 8X-2.3X ⁹ sp	Peed) / um ⁷ / SI kets / 12 beed / bo	GHz with ECC DRAM / no 8MB in or potable / r	on-parity / ne socket /	edStep™ tec 100MHz / PC ′ 1 socket ava from Ultrabay	100 / nilable n™ 2000	Windo - Micro Editio	to-Disk Recovery ddenService Partition ws 2000 models lows 2000 Profession	econd			
Disk (removable) Display Graphics controller	32GB ⁸ / 54 15.0" (381 ATI [®] Rage	1Ó0 rpm / mm) UX(e™ Mobili	rchangeable upgradeable GA (1600x120 ity 128 / AGP	/ S.M.A 00) TFT 2X / 16	color / Ad	ctive Matrix AM / 128-bi	t path to men	nory	Wind (in hi	to-Disk Recovery to lows 2000 or Window dden Service Partition	1)			
Graphics - external Keyboard ThinkLight™ UltraPort™	of the option 85-key ker Internet Sollluminates UltraPort of	onal dock yboard / T croll Bar / s the keyb connector	igital monitor ^s ing solutions / ThinkPad Butt pitch: 19mm; poard to impro con top of disp	DDC2E on / palr stroke: ve visib olay for o	3 / 1600x1 n rest / Tr 2.7mm ility in low options su	200x16.7M ackPoint®, -light cond ich as digit	<u>/I còlors at 751</u> "Press-to-Se itions al UltraPort C	dz elect," camera	Office - Micro Busir	WARE 2000 SB models (SE soft Office 2000 Sma ness e 2000 Small Busines	Ú			
Case material Dimensions ³ Approximate weight ² Battery - type Battery - life ¹⁰	Approxima with batter with batter	ately 13.2 by and we by and CD	e in the cover x 10.7 x 1.5-1 ight saver bez -RW: intelligent / su	.8" el only:	7.2 lb 7.7 lb				- Micro Busir Publi	XP SB models (XP) psoft Office XP Small ness ²⁸ (Word, Excel, 0 sher, Small Business e XP Small Business	Tools)			
AC adapter Architecture Port replicator Docking Station PC Card Std slots Ports	Intel 440E ISA Bridge PCI 2.1/3 PC97338 Optional T Optional T 2 Type I, 2 USB: One	BX AGPse e, USB) / i2-bit / 33 Super I/O hinkPad hinkPad Type II, (Version	16VDC 4.5A et / Intel PIIX4 TI® PCI1450 f MHz (EIDE, C / ISA (diskett Port Replicat Dock (include or 1 Type III / 1.1) / Serial: « intor / infrared	or Card cardBus e, serial tor es Ultral CardBu one 9 pii	Bus / AGF, audio, U, parallel, pay 2000 s 32-bit / In / Paralle	P 2X for gra SB, extern infrared, e. and half-si PCMCIA 2 el: one / key	aphics / al expansion xternal expar ze PCI slot) .1 / Zoomed \ yboard / mou) / nsion) Video	ThinlThinlConfIBM IEasyAccePC-EMediLicer	on to all models «Pad Utilities «Pad Assistant™ gSafe® Jpdate Connector™.15 Keys Utility ss ThinkPad II loctor™ amatics™ DVD (DVD) lise for Lotus® SmartS Innium and Lotus Note	models) uite®			
Video in and out Communicatns Bay Modem Ethernet/modem	S-video in / video out Communio Some: 5	and S-vio cable ind cations Ba 66K ⁶ V.90 ntel® PRC	deo out / two in cluded (S-vide ay with Mini P Mini PCI mod 0/100 SP Mob m / Intel 8255	ndustry o to con CI IIIb s lem card ile Com	standard nposite) lot / custo d / Lucent bo Adapte	connectors mer acces © chip set er / Mini PC	s / full MPEG- sible I ethernet wi	-2 support	5.0 The rig • stand • stand • optio	ht bay (Ultrabay 2000) lard or optional CD-R\ lard or optional DVD c nal SuperDisk drive nal Zip drive	supports:			
Audio support Security Limited warranty*,12	stereo spe input jack Power-on	eakers / .5 (3.5 mm) password	llaster Pro™ s s watt / volume / output jack (d / hard disk p ™.19 onsite pic	e up, dov (3.5 mm assword	wn, mute) / line in j d / supervi	buttons / ack sor passwo	ord / security k		optiooptiooptiooptiooptio	nal CĎ-ROM nal CD-RW/DVD Com nal HDD adapter nal second battery nal ThinkPad Proven™	и			
Service options	Service up	grades ²²	provide up to of ThinkPad p	three ye	ears of on	site or dep	ot repair serv	ice	solut PC 99-	ions ¹⁶ (such as Travel compliant	Bezel)			
64MB SO DIMM 10 128MB SO DIMM 11 256MB SO DIMM 11 256MB SO DIMM 11 SuperDisk (LS-240) Zip 250MB Ultrabay 24X-10X CD-ROM 8X/4X/24X CD-RW 8X-2X DVD Ultraba CD-RW/DVD Comb Travel Bezel for Ultr Second HDD Adapt 15GB HDD 30GB HDD 32GB HDD 48GB HDD (5400 rp	00MHz NP 00MHz NP UltraBay 20 2000 Drive Jitrabay 20 Ultrabay 20 y 2000 Drive o Ultrabay 2 abay 2000 er for Ultrab	SDRAM SDRAM 2000 20 Drive 2000	00N8253 05K9233 08K9569 27L3448 08K9572 08K6070 08K6068 08K9588 08K9593	Ultrabay ThinkPa Multiple ThinkPa ThinkPa ThinkPa Portable UltraPo UltraPo IBM IEE 10/100 Intel Pre	y 2000 Li- ad 72W A b Li-Ion/Ni ad Port Re ad Dock e Drive Ba rt Camera rt Digital / EE 1394 C Enet /56k o/100 SP	r Stand 200 ay 2000 a Array Micro CardBus Ca (Mini PCI (y Charger 11 ophone ard 3Com)	02K6640 02K6646 02K6699 02K6719 02K8667 263120U 22P5265 19K4480 04P6135 09N4178 19K5679 09N9774 06P3801 30L9195	Wired f Local a men Mans IBM Im IBM Ra prote Setup (Wind Asset I (via I Person Interna 24 hou	Id DMI 2.0 compliant or Management 2.0 ind remote asset man it via the IBM Universa ageability solutions ageUltra Services aviated software image an Guide, User's Referer lows manual D™ wireless RF technicely access a lized Web-based suttonal Warranty Service to during the warrant during the warrant	ailable able to d data ace, nology s door) poort ce ¹⁷ rdware			

				Ultrabay	Mini DCI	CDC	CDC		Workhoroo (W	\ or Avoi		
Type-model Proce	essor Speed	Memory Scree	en Disk	optical	Mini PCI Comm Bay	CDC ethernet	CDC Moder	n Preload	Workhorse (W Global (G) mo			
2652-1AU Pentiu 2652-3BU Pentiu 2652-3CU Pentiu 2652-4BU Pentiu	m® III-M 933MHz m III-M 933MHz m III-M 1.0GHz m III-M 1.0GHz m III-M 1.13GHz m III-M 1.13GHz m III-M 1.13GHz	128MB 14.1" 128MB 15" SX 128MB 15" SX 2 128MB 15" X0 2 128MB 15" X0	XGA 20GB (GA+ 30GB (GA+ 30GB GA 30GB GA 30GB	CD-ROM DVD-ROM DVD-ROM	802.11b/mod Open 802.11b/mod	None 10/100 1 10/100 10/100 1 10/100	Moder Moder Moder	m Windows®9 m Windows 9 m Windows 9 Windows 9 m Windows 9 Windows 9 m Windows 9	8 SE No 8 SE No 8 SE No 8 SE W G 8 SE W G	Oct 2001 Oct 2001 Oct 2001 Oct 2001 Oct 2001 Oct 2001 Dec2001		
Positioning Processor	High-performan Mobile Intel® Pe	entium® IÍI Proc	essor-M 933	3MHz¹, 1.0G	Hz, or 1.13GH	lz¹ with		So Windows 98 n	OFTWARE ¹⁴			
L2 cache Memory	enhanced Intel 512KB / on die (128MB or 256M two 144-pin SO-	at processor sp B std / 1GB ma	eed) / EČČ x² / SDRAM /	/ non-parity /	133MHz / PC	133 / 3.3v	, -	· Microsoft® W Edition ≎Disk-to-Disk	/indows® 98 Sec Recovery			
Diskette drive CD-ROM DVD-ROM	None standard / Some: CD-ROM Some: DVD-RO	I / 24X-10X⁰ spe	ed / bootable	e / removable	from Ultrabay	/ Plus	ı	(in hidden Service Partition) INCLUDED SOFTWARE ¹⁴ (all)				
Modular bays Disk (removable)	Two modular by Ultrabay Plus (120 or 30GB8 / up	ays for intercha right side) / Ultra ogradeable / S.N	ngeable devi abay 2000 let M.A.R.T. /	ices / Ultrab ft bay empty	ay 2000 (left si at ship (uses T	de) and Fravel Bez	el)	Preloaded Access Thin ConfigSafe®		(مامام		
Display	supports two add 14.1" (358.1mm 15.0" (381mm)) XGA (1024x7 XGA (1024x768	68) TFT color	or / Active Ma / Active Matr	atrix / 200:1 conti ix / 200:1 conti	ntrast rast		 PC-Doctor™ ThinkPad Uti 		lodeis)		
Graphics controller Graphics - external	Supports extern	adeon™ 7000 / al digital monito	or of	Downloadable IBM Rapid R IBM Data Tra	estore PC							
Keyboard	the optional doc 87-key / Web na rest / TrackPoint	vigation keys (6	•	Universal Ma License	anageability Sen tSuite® Millenniu							
ThinkLight™ UltraPort™ Case material	Illuminates the k None Color: black; To			Lotus Notes		illanu						
Dimensions ³ Approximate weight ² Battery - type Battery - life ¹⁰	Approximately 1 With battery and Lithium Ion 6-ce 3.2 hours / university	l optical drive: <i>1</i> II / intelligent / s										
Port replicator Docking Station PC Card Std slots Ports Video in and out	Intel 830MP chi 82801 CAM ICH: (LPC) interface, (Ricoh® R5C476 LPC bus 33MHz Optional ThinkP Optional ThinkP 2 Type I, 2 Type Two USB (versic infrared (4Mbps S-video out / ind	3-M I/O Control USB) / Intel 826 BII CardBus con (PC87392 Sup ad Port Replic Pad Dock (inclu II, or 1 Type III on 1.1) / one 9-p) / RJ-11 (mode	0	Ultrabay Plus integrated modular bay supports most Ultrabay 2000 devices including CD-RW/DVD Combo drive, diskette drive, or Zip drive; the optional Ultrabay Plus Device Carrier adds potential functionality by supporting the Ultrabay Plus Numeric Keypad and Cradle for the WorkPad® c500 Series								
Mini PCI CDC Modem 802.11b/modem Ethernet Bluetooth™ IEEE 1394	One Mini PCI IIII Two Communics Some: 56K ⁶ V.9 Some: Mini PCI display cover, W 100 ethernet on Optional PC Car Optional PC Car	o slot (Commun ations Daughter 0 (V.92-capable 802.11b wireles i-Fi-certified / 56 Communication d	ications Bay) Card (CDC) e ²⁹) CDC mod ss, Intersil® P iK ⁶ V.90 ²⁹ mo	/ customer i sockets / cu dem card / Li rism 2.5 chip odem combo	upgradeable stomer access ucent® chip set set, diversity a Lucent® chips	t ntennas in et <i>Some:</i>	10/	Wired for Man Local and rem ment via the Manageabi	d 2.0 support 2.0 compliant agement 2.0 lote asset mana e IBM Universa lity solutions	ľ		
Audio support Security	SoundBlaster Privolume up, down Power-on passy	n, mute buttons	/ mic input ja	ick / output j	ack / line in jac	k		IBM Rapid Re protect soft Setup Guide,	ra Services ava store PC availa ware image and Service and Tro	able to d data ouble-		
Limited warranty*,12 Service options	1 year - EasySe Service upgrade from date of Thir	es ²² provide up t nkPad purchase	crage	Personalized International \ 24 hour x 7 da	uide, Windows r Web-based sup Varranty Servic 1y ¹⁸ toll-free har	port ee ¹⁷ dware						
64 MB SO DIMM 128 MB SO DIMM 256 MB SO DIMM 512 MB SO DIMM	133MHz NP SDF 133MHz NP SDF	RAM 19K469 RAM 19K469	52 Ultrabay 2 54 ThinkPac	2000 Li-Ion b I 72W AC Ad	Li-Ion Battery attery apter Battery Charge	02K6 02K6 02K6 r 02K6	878 646 699 —	support dur	ing the warranty	у		
USB Portable Disk ThinkPad Remova	cette Drive ble Diskette Drive	05K927 e 08K960	76 ThinkPac 03 ThinkPac	l Port Replica l Dock	ator	02K8 26312	667 20U		yr IOR 9x5 NBD	30L9188)		
SuperDisk (LS-240 Zip 250MB Ultraba 24X-10X CD-ROM	y 2000 Drive	00N82		l Monitor Staı Drive Bay 20 ı PC Card II f	00	22P5 19K4 19K5	480	ServicePac 3	yr IOR 9x5 NBD	30L9189 0 30L9195		
8X/4X/24X Max CI 8X-3X DVD Ultrab	D-RW Ultrabay 20	000 08K956 27L344	9 IBM IEEE	1394 Card	Bus Card Bus Adapter		K5679 ServicePac 2yr P&L P/U Depot					
CD-RW/DVD Com Travel Bezel for Ul Second HDD Adap IBM ThinkPad Ultra	bo Ultrabay 2000 trabay 2000 oter for Ultrabay 2 abay Plus Carrier	08K95 08K60 000 08K60 22P57	72 10/100 E 70 Intel Pro/ 88 IBM High 37 15GB HD	net /56K Min 100 SP Mini Rate Wirele DD	i PCI (3Ċom)	09N9 06P3 8 09N9 08K9	774 1 801 904 588	ServicePac 3	yr P&L P/U Dep			
IBM ThinkPad Ultra ThinkPad Ultrabay			38 30GB HD 30 48GB HD	D D (5400 rpm)	08K9 08K9						

Type-model Proc	essor Speed	Memory Screen		rabay Mini Po		CDC hernet Pr	Small Bus Workhorse or Ava eload software Global model dat
2652-41	IMIII-M 1.13GHz IMIII-M 1.0GHz IMIII-M 1.0GHz IMIII-M 1.13GHz IMIII-M 1.13GHz IMIII-M 1.0GHz IMIII-M 1.13GHz IMIII-M 1.13GHz IMIII-M 1.13GHz IMIII-M 1.13GHz	128MB 14.1" XG/ 128MB 14.1" XG/ 128MB 15" XGA 128MB 15" SXG/ 128MB 15" SXG/ 128MB 15" SXG/ 128MB 15" XGA 128MB 15" XGA 128MB 15" SXG/ 128MB 15" SXG/ 128MB 15" SXG/ 128MB 15" XGA 128MB 15" XGA 128MB 15" XGA 128MB 15" XGA 128MB 15" XGA 128MB 15" XGA	30GB DV 1+ 30GB DV 1+ 30GB DV	/D Open /D Wi-Fi/i /D Open /D Wi-Fi/i /D Open /D Wi-Fi/i	Mod 10 nod 10 Mod 10 nod 10 Mod 10 nod 10	//100 Wind //100 Wind //100 Wind //100 Wind //100 Wind //100 Wind //100 Wind //100 Wind //100 Wind	ows 2000 W G Oct 200 ows 2000 W Oct 200 ows XP Pro No Nov200 ows XP Pro No Nov200 ows XP Pro W Nov200 ows XP Pro W Nov200
Positioning Processor L2 cache Memory	Mobile Intel® Personal Property of the Intel® State of the Intel® State of the Intel® State of the Intel® Personal Property of	ce desktop alternati entium® III Process SpeedStep™ techno (at processor speed IB std / 1GB max² / \$ -DIMM sockets / std	or-M 933MH: logy¹ and 133) / ECC SDRAM / non	z, 1.0GHz, or BMHz frontsiden- n-parity / 133N	1.13GHz wi e bus 1Hz / PC 133	th 3 / 3.3v /	SOFTWARE ¹⁴ Windows XP Pro models - Microsoft® Windows® XP Professional Disk-to-Disk Recovery
Diskette drive CD-ROM DVD-ROM Modular bays Disk (removable)	Some: CD-RON Some: DVD-RO Two modular b Ultrabay Plus (I 20 or 30GB ⁸ / up	use optional Ultraba 1/24X-10X° speed / M / 8X-2.3X° speed ays for interchanger right side) / Ultrabay ogradeable / S.M.A. ditional disks with op	bootable / re / bootable / re able devices / 2000 left bay R.T. /	emovable from emovable from / Ultrabay 20 y empty at shi	Ultrabay Plan Ultrabay P Ultrabay P Ultrabay Ultraba	us Plus and /el Bezel)	(in hidden Service Partition) Windows 2000 models - Microsoft Windows 2000 Professional 13 Disk-to-Disk Recovery (in hidden Service Partition)
	15.0" (381mm) 3 15.0" (381mm) 3 ATI® Mobility R	n) XGA (1024x768) XGA (1024x768) TF SXGA+ (1400x1050 adeon™ 7000 / AG	T color / Act) TFT color / P 4X / 16MB	tive Matrix / 20 / Active Matrix DDR-SDRAN	0:1 contrast / 200:1 cont 188MHz	t trast	INCLUDED SOFTWARE ¹⁴ (all) Preloaded • Access ThinkPad - Access Connections
Graphics - external Keyboard ThinkLight™ UltraPort™	the optional doc 87-key / Web na rest / TrackPoin	al digital monitor ^s via king solutions / DDC avigation keys (6 totat [®] , "Press-to-Select, teyboard to improve	2B / 1600x12 II, 3 customiz " Internet Scr	200x16.7M col zable) / ThinkF roll Bar / pitch	ors at 85Hz Pad Button / 19mm; stro	palm	- Access Help • ConfigSafe® • Mediamatics™DVD • PC-Doctor™ • ThinkPad Utilities Downloadable
Case material Dimensions ³ Approximate weight ² Battery - type	Color: black; To Approximately 1 with battery and Lithium Ion 6-ce	pp: ABS plastic; Bot 3 x 10.7 x 1.8"; 330i optical drive: 1xx: 7 Il / intelligent / suppo	mm x 272mm .2 lb (3.27kg) orts unique 2r	x 45.8mm); <i>Others:</i> 7.4	b (3.36kg)	O (left)	 IBM Rapid Restore™ PC IBM Data Transfer Universal Manageability Services™ IBM Update Connector™.15 License
Port replicator Docking Station PC Card Std slots Ports	Intel 830MP chi 82801CAM ICH: (LPC) interface, (Ricoh® R5C476 LPC bus 33MHz Optional ThinkF Optional ThinkF 2 Type I, 2 Type Two USB (version	ersal 72 watt AC ada pset / 82830MP Gra 3-M I/O Controller H USB) / Intel 82802A Bill CardBus controlle c (PC87392 Super I/ Pad Port Replicator Pad Dock (includes till, or 1 Type III / Ca on 1.1) / one 9-pin so) / RJ-11 (modem) /	phics Memor ub (ATA-100 B Firmware F Ir, Mini PCI, e: O for diskette Ultrabay 2000 rdBus 32-bit erial / parallei	0/66 EIDE, PC Hub / PCI bus 2 xt expansion) / p, serial, parall 0 and half-size / PCMCIA 2.1 I / external DE	I bus, Low P 2.2 32-bit, 33 el, infrared) e PCI slot) / no Zoome 3-15 monitor	in Count MHz ed Video	- Lotus® SmartSuite® Millennium and Lotus Notes® Client 5.0 Office XP Small Business models - Microsoft Office XP Small Business²® (Word, Excel, Outlook, Publisher, Small Business Tools) Office XP Small Business CD
Video out Mini PCI CDC Modem Wi-Fi ³² /modem Ethernet Audio support	S-video out port One Mini PCI tyr Two Communic Some: 56K ⁶ V.9 Some: Mini PCI display cover, W 10/100 ethernet SoundBlaster P	(TV out) / industry spe III slot (Communiations Daughter Car 10 (V.92-capable²9) (Wi-Fi³² wireless⁴, In 16-Fi-certified / 56K⁴ Von Communications 17-compatible / CS	tandard connications Bay) d (CDC) sock CDC modem tersil® Prism 2 .9029 modem Daughter Ca .4299 AC97 c	nector / no cal / customer up kets / custome card / Lucent 2.5 chipset, di n combo, Luce ard / Intel® 825 codec / stereo	ole ships sta gradeable or accessible or chip set versity anten nto chipset ozeT chipset speakers /	ndard e nnas in	Ultrabay Plus integrated modular bay supports most Ultrabay 2000 devices including CD-RW/DVD Combo drive, diskette drive, or Zip drive; the optional Ultrabay Plus Device Carrier adds potential functionality by supporting the Ultrabay Plus Numeric Keypad and Cradle for the WorkPad® c500 Series
Security Limited warranty ¹² Service options	Power-on passy 1 year - EasySe Service upgrade	n, mute buttons / mivord / hard disk pass erv ^{™,19} onsite pickup es ²² provide up to thr late of ThinkPad pur	sword / super and delivery o ee years of o	visor passwor courier service onsite or depo	d / security k e t repair servi		PC 2001-compliant ACPI 1.0b and 2.0 support CIM and DMI 2.0 compliant Wired for Management 2.0 Local and remote asset manage
64 MB SO DIMM 128 MB SO DIMM 256 MB SO DIMM 512 MB SO DIMM ThinkPad Remova SuperDisk (LS-24 Zip 250MB Ultraba 8X/4X/24X Max C 8X-3X DVD Ultrab CD-RW/DVD Com Travel Bezel for U Second HDD Ada	133MHz NP SDF 133MHz NP SDF 133MHz NP SDF able Diskette Drive 0) UltraBay 2000 ay 2000 Drive D-RW Ultrabay 20 ay 2000 Drive nbo Ultrabay 2000 ltrabay 2000	RAM 19K4652 L RAM 19K4654 T RAM 19K4656 N e 08K9603 T 00N8253 F 000 08K9569 1 27L3448 1 0 08K9572 S 08K6070 S	Iltrabay 2000 hinkPad 72W fultiple Li-lon hinkPad Port hinkPad Doc ortable Drive 0/100 EtherJ jo/100 Enet /5 iervicePac2	k	Adapter 3Com) NBD	02K6878 02K6646 02K6699 02K6719 02K8667 263120U 19K4480 08L3147 09N9774 30L9188 30L9189 30L9195	support during the warranty
IBM ThinkPad Ulti IBM ThinkPad Ulti ThinkPad Ultrabay	rabay Plus Carrier rabay Plus c500 C y Plus Numeric Ke	r 22P5737 S Cradle 22P5738 S	ervicePac 2) ervicePac 3)	yr P&L P/U De yr P&L P/U De	epot	30L9191 30L9192	15GB HDD 08K9588 40GB HDD 08K9687 48GB HDD (5400 rpm) 08K9600

Type-model	Proce	essor	Speed	Memory	Screen	Disk	Ultrabay optical	Ultrabay diskette	Mini F wireless/r		CDC ethernet	Preload	Limited warranty	Avail date	
2652-1UU 2653-1UU				128MB 128MB	14.1" XG/ 14.1" XG/		CD-ROM					Windows® XP Windows XP P			
	institut educa This m	tion/cust tional pu lodel for	tomer is irposes i educati	a public for use by on is for s		-12 (or hig Students rom IBM (gher) accre and/or Qua or through a	dited scho lified Teac an Authoria	ol organiz hers. zed Educa	ed and ation Re	operate	customers. Quali d exclusively for al.	fied		
Positioning		High-pe	erformai	nce desk	top alternat	ives with e	exceptional	l versatility	; three spi	ndle		SOFTW	ARE ¹⁴		
L2 cache Memory Diskette driv CD-ROM Modular bay	S	shand 512KB 128MB two 144 3.5" 1.4 CD-RO Two m bezel o	ced Intel / on die std / 10 4-pin SC 44MB / ro M / 24X odular t r diskett	SpeedSi (at proce B max ⁷ / D-DIMM s emovable -10X ⁹ sp bays for i e) and U	essor speed SDRAM / rockets / sto e from Ultra eed / boota nterchange	- M Pr Di (ir INC Prel	icrosoft® Window rofessional isk-to-Disk Reco n hidden Service LUDED SOFTW loaded	k-to-Disk Recovery nidden Service Partition) UDED SOFTWARE ¹⁴ (all) naded							
Disk (remova	able)				S.M.A.R.T. / disks with o		DD adapte	r in each m	odular ba	у	- /	ccess ThinkPad Access Connecti	ons		
		supports two additional disks with optional HDD adapter in each modular bay 14.1" (358.1mm) XGA (1024x768) TFT color / Active Matrix / 200:1 contrast ler ATI® Mobility Radeon™ 7000 / AGP 4X / 16MB DDR-SDRAM 188MHz hal Supports external digital monitor⁵ via the Digital Video Interface (DVI) port on either of the optional docking solutions / DDC2B / 1600x1200x16.7M colors at 85Hz										Access Support Access Help onfigSafe® ediamatics™ DVI C-Doctor™)		
Keyboard ThinkLight™ UltraPort™ Case materia	al	TrackP Illumina None	oint®, "P ates the	ress-to-s keyboard	n keys (6 tot Select," Inte d to improve	• Th Dov • IE	BM Update ConnominkPad Utilities vnloadable BM Rapid Restor BM Data Transfe	e™ PC							
Dimensions ³	Approximately 13 x 10.7 x 1.8"; 330mm x 272mm x 45.8mm veight ² with battery and optical drive: 7.4 lb (3.36kg) Lithium Ion 6-cell / intelligent / supports unique 2nd battery in Ultrabay 2000 (left)										• IE Lice	BM Director Ager ense otus® SmartSuite otus Notes® Clien	t Millennium	and	
Port replicate Docking Stat PC Card Std Ports	tion	Intel 830MP chipset / 82830MP Graphics Memory Controller Hub (GMCH-M) / 82801CAM ICH3-M I/O Controller Hub (ATA-100/66 EIDE, PCI bus, Low Pin Count (LPC) interface, USB) / Intel 82802AB Firmware Hub / PCI bus 2.2 32-bit, 33MHz (Ricoh® R5C476II CardBus controller, Mini PCI, ext expansion) / LPC bus 33MHz (PC87392 Super I/O for diskette, serial, parallel, infrared) Optional ThinkPad Port Replicator Optional ThinkPad Dock (includes Ultrabay 2000 and half-size PCI slot) 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / no Zoomed Video Two USB (version 1.1) / one 9-pin serial / parallel / external DB-15 monitor / infrared (4Mbps) / RJ-11 (modem) / RJ-45 (ethernet) / no keyboard or mouse													
Video out Mini PCI Wi-Fi ³² /mo	odem	One Mi Mini PO display 56K ⁶ V.	ni PĊI ty CI Wi-Fi³ cover, V .90 (V.92	/pe III slo ² wireles: Vi-Fi-cert 2-designe) / industry t (Commun s⁴, Intersil® f ified / ed²®) moden aughter Ca	ications E Prism 2.5 n combo, I	Bay) / custo chipset, dua Lucent® chi	mer upgra al antenna pset	deable s in	dard					
Ethernet Open		10/100	etherne	t on CDC	7 Intel 8256 aughter Ca	2ET chips	set (physica	l layer)							
Audio suppo Security	rt	volume	up, dov	vn, mute	npatible / Ca buttons / m ard disk pas	ic input ja	ck / output	t jack / line	in jack		sup	abay Plus integr	ay 2000 dev	/ices	
Limited warra	anty*,12 ons	Power-on password / hard disk password / supervisor password / security keyhole / 2652: 1 year - EasyServ ^{TM,19} onsite pickup and delivery courier service 2653: 3 years/1 year battery - EasyServ ^{TM,19} onsite pickup and delivery courier servic Service upgrades ²² provide up to three years of onsite or depot repair service coverage from date of ThinkPad purchase (including warranty period)								ce disk option	uding CD-RW/D\ ette drive, or Zip onal Ultrabay Plu s potential function porting the Ultrab	drive;(the s Device Ca nality by	ırrier		
128 MB SO 256 MB SO 512 MB SO ThinkPad R SuperDisk (Zip 250MB 8X/4X/24X Ultralight 8X DVD/CD-RY Travel Beze Second HD IBM ThinkP IBM ThinkP U20GB Hard 40GB Hard	19K4650 128 MB SO DIMM 133MHz NP SDRAM 19K4652 19K4650 10K17Pad Port Replicator 10Hiple Li-lon/NiMH Battery Charger 10Hiple Li-lon/NiMH Battery 10Hiple L								78 Key c500	pad and Cradle for Series 2001-compliant PI 1.0b and 2.0 s I and DMI 2.0 co ed for Managem al and remote as ent via the IBM lanageability soli I ImageUltra Ser Rapid Restore rotect software in up Guide, Servic mooting Guide, W sonalized Web-t rnational Warrar nour x 7 day 18 tol upport during the	upport mpliant ent 2.0 set manage Jniversal utions vices availab PC availab inage and d e and Troul lindows ma ased suppo ty Service¹ -free hardy	e ble e to ata ble-inual prt or to rotate or rotate o			

		Ultrabay Mini PCI	CDC CDC Securi	ity Small business Workhorse Avail
	ssor GHz Memory Screen	Disk optical Comm Bay	ethernet Bluetooth Chip	Preload software model date
2653-65U Pentium 2653-65U Pentium 2653-64U Pentium	IIII-M 1.2 128MB 15" UXGA IIII-M 1.2 128MB 15" UXGA IIII-M 1.2 128MB 15" UXGA	∖ 48GB Combo 11bWi-Fi/mod	10/100 Yes 10/100 Yes 10/100 Yes	
Positioning Processor	High-performance desktop al Mobile Intel® Pentium® III Pr	ternatives with exceptional versa	atility; three spindle	SOFTWARE ¹⁴
L2 cache Memory	enhanced Intel SpeedStep™ t 512KB / on die (at processor 128MB standard / 1GB maxin	echnology ¹ and 133MHz frontsic	BMHz / PC 133 /	Windows XP Pro models - Microsoft® Windows® XP Professional ♦ Disk-to-Disk Recovery (in hidden Service Partition)
Modular bays	Combo drive / CD-RW/DVD-F Two modular bays for interc Ultrabay Plus (right side) / U	Ultrabay™-based or USB-based ROM / removable from Ultrabay hangeable devices / Ultrabay 2 i Itrabay 2000 left bay empty at sl	Plus (right side) 000 (left side) and	Windows 2000 models - Microsoft Windows 2000 Professional ¹³
Disk (removable)	48GB ⁸ / high-speed 5400 rpm supports two additional disks	n / upgradable / S.M.A.R.T. / with optional HDD adapter in ea	ch modular bay	♦ Disk-to-Disk Recovery (in hidden Service Partition)
Display		600x1200) TFT color / Active Mewing angle and high density us		INCLUDED SOFTWARE ¹⁴ (all)
	ATI® Mobility RADEON™ 70 Supports external digital mon	00 / AGP 4X / 32MB DDR-SDR itor via the Digital Video Interfac s / DDC2B / 1600x1200x16.7M co	e (DVI) port on either of	Preloaded Access ThinkPad Access Connections Access Help
Keyboard	TrackPoint®, "Press-to-Select	(6 total, 3 customizable) / Think t," Internet Scroll Bar ¹³ / pitch: 19	mm; stroke: 2.7mm	ConfigSafe® Mediamatics™DVD MGI Video Wave IV
ThinkLight™ UltraPort™ Case material	UltraPort connector on top of	nprove visibility in low-light condi display for options such as digit c; <i>Bottom:</i> glass-fiber reinforce	al UltraPort Camera	PC-Doctor™ ThinkPad Utilities IBM Update Connector™.15
Dimensions ³ Approximate weight ² Battery - type Battery - life ¹⁰	with battery and optical drive:	supports unique 2nd battery in	Ultrabay 2000 (left)	Veritas RecordNOW Downloadable IBM Rapid Restore™ PC
Architecture Port replicator Docking Station PC Card Std slots Ports	82801 CAM ICH3-M I/O Contr (LPC) interface, USB [Bluetor 33MHz (Ricoh® R5C522 Carc LPC bus 33MHz (PC87392 S Optional ThinkPad Port Repl Optional ThinkPad Dock (inc 2 Type I, 2 Type II, or 1 Type	MP Graphics Memory Controller coller Hub (ATA-100/66 EIDE, Poth]) / Intel 82802AB Firmware HiBus/1394 combo controller, Minuper I/O for diskette, serial, paralicator cludes Ultrabay 2000 and half-si: Ult / CardBus 32-bit / PCMCIA 20-pin serial / parallel / IEEE 1394	CI bus, Low Pin Count ub / PCI bus 2.2 32-bit, i PCI, ext expansion) / illel, infrared) ze PCI slot)	IBM Data Transfer Universal Manageability Services™ Client Security Software (for security chip) License Lotus® SmartSuite® Millennium and Lotus Notes® Client 5.0 Office XP Small Business models only
Video in and out	S-video in and S-video out po	J-11 (modem) / RJ-45 (ethernet rts / two industry standard conn	•	Microsoft Office XP Small Business ²⁸ (Word, Excel, Outlook, Publisher, Small Business Tools)
Mini PCI CDC	Two Communications Daugh	mmunications Bay) / customer u ter Card (CDC) sockets / custom	ner accessible	♦ Office XP Small Business CD
	Some: Mini PCI 11b Wi-Fi ³² v display cover, Wi-Fi-ce	ble ²⁹) Mini PCÍ modem card / Lu vireless⁴, Intersil® Prism 2.5 chips ertified / 56K° V.90 ²⁹ modem com	set, diversity antennas in bo, Lucent® chipset	Ultrabay Plus integrated modular bay supports most Ultrabay 2000 devices including CD-RW/DVD Combo drive,
Ethernet Bluetooth™ IEEE 1394	Some: 10/100 ethernet on Co Some: Bluetooth wireless ted IEEE 1394 port	ommunications Daughter Card / I chnology / on CDC / power butto	ntel®82562E1 chipset n on display	diskette drive, or Zip drive; the optional Ultrabay Plus Device Carrier adds potential functionality by supporting
Audio support	SoundBlaster Pro™-compatib stereo speakers / 1 watt / volu input jack (3.5 mm) / output ja	ıme up, down, mute buttons /		the Ultrabay Plus Numeric Keypad and Cradle for the WorkPad® c500
Security Security chip	Power-on password / hard dis IBM Embedded Security Su authentication / local file encr	sk password / supervisor passwo bsystem ³³ / hardware key stora yption / enhances VPN security'	ge / multi-factor	PC 2001-compliant
Limited warranty ¹² Service options	Sérvice upgrades22 provide ú	Serv ^{™.19} onsite pickup and delive p to five years of onsite or depot ad purchase (including warrant)	repair service	ACPI 1.0b and 2.0 support CIM and DMI 2.0 compliant Wired for Management 2.0 Local and remote asset manage
128 MB SO DIMM 256 MB SO DIMM 512 MB SO DIMM ThinkPad Remova SuperDisk (LS-240 Zip 250MB Ultraba 24X-10X CD-ROM 8X/4X/24X Max CI 8X-3X DVD Ultraba CD-RW/DVD Com Travel Bezel for Ul Second HDD Adap IBM ThinkPad Ultra	33MHz NP SDRAM 19K4 900 Eisektte Drive 08K5 1 UltraBay 2000 08K6 2 2000 Drive 05K5 2 RW Ultrabay 2000 08K6 1 y 2000 Drive 27L3 2 OU Ultrabay 2000 08K6 2 po	UltraPort Compact Flash F 1070 IBM USB 32MB Memory k 1068 IBM IEEE 1394 CardBus C 10737 10/100 EtherJet™ CardBus 15GB HDD 190 40GB HS Hard Disk 9.5mm	y 02K6646 r 02K6699 ry Charger 02K6719 02K8667 263120U 001 22P5265 19K4480 04P6135 rophone 09N4178 Reader 19K4510 (ey 22P5296 Card 19K5679 s Adapter 08L3147 08K9588 n (5400 rpm) 08K9816	ment via the IBM Universal Manageability solutions IBM ImageUltra™ Services available IBM Rapid Restore PC available to protect software image and data Setup Guide, Service and Trouble-shooting Guide, Windows manual International Warranty Service ¹⁷ 24 hour x 7 day¹8 toll-free hardware support during the warranty¹2
	ortant warranty information	<u>'</u>		(A30P) © IBM Corp. July 2003

Tune model Presses	nov Speed Memory Sere	Ultrabay en Disk optical	CDC Mini PCI Ethern	CDC Secret Modern Ch	
2652-D4U Pentium 2652-D5U Pentium	© Speed Memory Scre © 4-M 1.6GHz 256MB 15" S	XGA+ 40GB°DVD/CD-RW XGA+ 40GB DVD/CD-RW XGA+ 40GB DVD/CD-RW	/ Open 10/100 / Open 10/100 / Wi-Fi ³² /mod 10/100) Modem) Modem) Open Ye	windows XP Pro No Mar 2002 Windows 2000 No Mar 2002 es Windows XP Pro No Mar 2002 es Windows XP Pro No Mar 2002 es Windows 2000 No Mar 2002
Positioning Processor L2 cache Memory	High-performance desktop Mobile Intel® Pentium® 4 F enhanced Intel SpeedStep® 512KB / on die (at processon 256MB std / 1GB max7 / PC two 200-pin SO-DIMM sock	rocessor-M 1.6GHz with technology ²¹ and 400MHz r speed) / ECC 2100 266MHz ³⁰ DDR-SDR	frontside bus (AM / non-parity / 2.5)	\\ -	SOFTWARE ¹⁴ Windows XP Pro models Microsoft® Windows® XP Professional Disk-to-Disk Recovery
Diskette drive DVD-ROM/CD-RW Modular bays Disk (removable)	None standard / use option: Combo / 8X/8X/24X/8X ²¹ sp Two modular bays for inte Ultrabay Plus (right side) / 40GB ⁸ / upgradeable / S.M. supports two additional disl	I Ultrabay™-based or USB eed / bootable / removable changeable devices / Ultra Ultrabay 2000 left bay emp A.R.T. /	and -	(in hidden Service Partition) Windows 2000 models Microsoft Windows 2000 Professional ¹³ ConfigSafe [®] A Disk Parence Professional	
Dieplay	- ' '	· · · · · · · · · · · · · · · · · · ·			Disk-to-Disk Recovery (in hidden Service Partition)
	15.0" (381mm) SXGA+ (14 ATI® Mobility™ Radeon™ External monitor support via at 75Hz / DDC2B / supports (DVI) port on either of the o	7M colors erface	NCLUDED SOFTWARE ¹⁴ (all) Preloaded Access ThinkPad - Access Connections		
Keyboard ThinkLight™ UltraPort™ Case material	87-key / Web navigation ke rest / TrackPoint®, "Press-tulluminates the keyboard to None Color: black; Top: ABS place."	-Select," Internet Scroll Ba mprove visibility in low-ligh	e: 2.7mm	- Access Help - Access Support - Adobe Acrobat Reader - InterVideo™ Win DVD - PC-Doctor™	
Dimensions ³ Approximate weight ² Battery - type Battery - life ¹⁰	Approximately 13.0 x 10.7 with battery and optical driv Lithium Ion 6-cell 10.8V 4.0 2.3 hours / universal 72 wat	e: 7.6 lb (3.45kg) Ah / intelligent / supports 2r : AC adapter (16Vdc 4.5A)	2000	ThinkPad Utilities IBM Update Connector™.15 Veritas RecordNOW Downloadable	
Port replicator Docking Station PC Card Std slots Ports	Intel 845MP chipset / 8284 82801CAM ICH3-M I/O Colow Pin Count (LPC) interfices 3MHz (Ricoh® R5C552 Calence bus 33MHz (PC87392 Optional ThinkPad Port Recoptional ThinkPad Dock (in 2 Type I, 2 Type II, or 1 Type Two USB (version 1.1) / oninfrared (4Mbps) / RJ-11 (m	AC, 2 32-bit, nsion) /	 IBM Rapid Restore™ PC IBM Data Transfer Client Security Software (for security chip) IBM Director Agent License Lotus® SmartSuite® Millennium and Lotus Notes® Client 5.0 		
Video out IEEE 1394 Mini PCI Wi-Fi ³² /modem CDC Modem Ethernet	S-video out port (TV out) / in None One Mini PCI IIIb slot (Com Some: Mini PCI Wi-Fi ³² wir display cover / 56K ⁶ Two Communications Daug Some: 56K ⁶ V.90 (V.92-de 10/100 ethernet on CDC / Ir	nunications Bay) / custome less ⁴ , Intersil® Prism 2.5 ch / .90 (V.92-designed ²⁹)moc hter Card (CDC) sockets / igned ²⁹) CDC modem card	er upgradeable ipset, dual antennas i dem combo, Lucent® c customer accessible I / Lucent® chip set	n hipset	
Bluetooth™ Audio support Security Security chip	None SoundBlaster Pro™-compa volume up, down, mute but Power-on password / hard Some: IBM Embedded Se	ible / AD1881A AC97 code ons / mic input jack / outpu lisk password / supervisor p	ec / stereo speakers / ut jack / line in jack bassword / security ke vare key storage / mu	1 watt / control of the control of t	Jitrabay Plus integrated modular pay supports most Ultrabay 2000 devices including CD-RW/DVD Combo II drive, diskette drive, or Zip drive; the optional Ultrabay Plus Device Carrier adds potential unctionality by supporting the
Limited warranty ¹² Service options	1 year - EasyServ™.19 onsite Service upgrades ²² provide coverage from date of Think	pickup and delivery courie up to three years of onsite	r service or depot repair servic	ر ا	JItrabay Plus Numeric Keypad and Cradle for the WorkPad® c500 Series
256 MB PC2100 DI 512 MB PC2100 DI Second HDD Adap 20GB Hard Disk Dr 40GB Hard Disk Dr 60GB HS Hard Dis ThinkPad Remova SuperDisk (LS-24 Zip 250MB Ultraba 8X/4X/24X Max CE Ultralight 8X Max D	rive 08 k Drive (5400 rpm) 08 ble Diskette Drive 08 0) UltraBay 2000 08 0 y 2000 Drive 00 0-RW Ultrabay 2000 22 VD Ultrabay 2000 22 VD Ultrabay 2000 08 trabay 2000 08 trabay 2000 08 trabay 2000 08 es Li-lon Battery 02 Adapter 02	22P5738 A 22P7330 C 02K8667 II 263120U II 33L3244 33L3225 S 22P5296 19K4480 F 08L3147 F 09N9774 II	PC 2001-compliant ACPI 1.0b and 2.0 support CIM and DMI 2.0-compliant BM ImageUltra Services available BM Rapid Restore PC available to protect software image and data Setup Guide, Service and Trouble- shooting Guide, Windows manual Personalized Web-based support ³¹ Proactive e-mail updates ³¹ nternational Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free hardware support during the warranty		

	Hitrahay Mini DCI CDC CDC Casyrit	Craell Werkhares or 4 1
Type-model Proces	Ultrabay Mini PCI CDC CDC Securit sor Speed Memory Screen Disk optical wireless/modem ethernet modem chip	
2652-C4U Pentium 2652-C5U Pentium 2652-C6U Pentium	**4-M 1.6GHz 256MB 15" XGA 30GB* CD-RW Open 10/100 Modem 4-M 1.6GHz 256MB 15" XGA 30GB CD-RW Open 10/100 Modem 4-M 1.6GHz 256MB 15" XGA 30GB CD-RW 11b Wi-Fi³2/mod 10/100 Open Yes 4-M 1.6GHz 256MB 15" XGA 30GB CD-RW Open 10/100 Modem	XP Pro
Positioning Processor L2 cache Memory	High-performance desktop alternatives with exceptional versatility; three spindle Mobile Intel® Pentium® 4 Processor-M 1.6GHz with enhanced Intel SpeedStep™ technology¹ and 400MHz frontside bus 512KB / on die (at processor speed) / ECC 256MB std / 1GB max⁻ / PC2100 266MHz³⁰ DDR-SDRAM / non-parity / 2.5v / two 200-pin SO-DIMM sockets / std memory in one socket / one socket available	SOFTWARE ¹⁴ Windows XP Pro models - Microsoft® Windows® XP Professional ²⁰ \$\times Disk-to-Disk Recovery
Diskette drive CD-RW Modular bays (both 12.7mm) Disk (removable)	None standard / use optional Ultrabay™-based or USB-based diskette drive CD-RW / 8X/4X/24X³ speed / bootable / removable from Ultrabay Plus Two modular bays for interchangeable devices / Ultrabay 2000 (left side) and Ultrabay Plus (right side) / Ultrabay 2000 left bay empty at ship (uses Travel Bezel) 30GB³ / upgradable / S.M.A.R.T. / 12.5mm bay / supports two additional disks with optional HDD adapter in each modular bay	(in hidden Service Partition) Windows 2000 models - Microsoft Windows 2000 Professional ²⁰ • ConfigSafe [®] ♦ Disk-to-Disk Recovery
Display	15.0" (381mm) XGA (1024x768) TFT color / Active Matrix / 200:1 contrast	(in hidden Service Partition)
Graphics controller Graphics - external	ATI® Mobility™ RADEON™ 7500 / AGP 4X / 16MB DDR-SDRAM 166MHz External monitor support via analog DB-15 connector / up to 2048x1536x16.7M colors at 75Hz / DDC2B / supports external digital monitor via the Digital Video Interface (DVI) port on either of the optional docking solutions	INCLUDED SOFTWARE ¹⁴ (all) Preloaded • Access ThinkPad - Access Connections
Keyboard ThinkLight™ UltraPort™ Case material	87-key / Web navigation keys (6 total, 3 customizable) / ThinkPad Button / palm rest / TrackPoint®, "Press-to-Select," Internet Scroll Bar¹³ / pitch: 19mm; stroke: 2.7mm Illuminates the keyboard to improve visibility in low-light conditions None Color: Black; Top: ABS plastic; Bottom: glass-fiber reinforced plastic	- Access Support - Access Help • Adobe Acrobat Reader • PC-Doctor™ • ThinkPad Utilities
Dimensions ³ Approximate weight ² Battery - type Battery - life ¹⁰	Approximately 13.0 x 10.7 x 1.8-1.9"; 329mm x 272.5mm x 44.6-46.8mm with battery and optical drive: 7.5 lb (3.45kg) Lithium Ion 6-cell 10.8V 4.0Ah / intelligent / supports 2nd battery in Ultrabay 2000 2.5 hours / universal 72 watt AC adapter (16Vdc 4.5A)	IBM Update Connector™.15 IBM RecordNOW by Veritas® Downloadable IBM Rapid Restore™ PC
Port replicator Docking Station PC Card Std slots Ports	Intel 845MP chipset / 82845MP Memory Controller Hub (MCH-M) / 82801CAM ICH3-M I/O Controller Hub (ATA-100 EIDE, PCI bus, ethernet MAC, Low Pin Count (LPC) interface, USB, Firmware Hub) / PCI bus 2.2 32-bit, 33MHz (Ricoh® R5C552 CardBus/1394 combo controller, Mini PCI, ext expansion) / LPC bus 33MHz (PC87392 Super I/O for diskette, serial, parallel, infrared) Optional ThinkPad Port Replicator Optional ThinkPad Dock (includes Ultrabay 2000 and half-size PCI slot) 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / integrated door Two USB (version 1.1) / one 9-pin serial / parallel / external DB-15 monitor / infrared (4Mbps) / RJ-11 (modem) / RJ-45 (ethernet) / no keyboard or mouse	IBM Data Transfer Client Security Software (for security chip) IBM Director Agent License (CD not included) Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client Office XP Small Business model only (2652-CTU)
Video out IEEE 1394 Mini PCI 11b Wi-Fi ³² /mod	S-video out port (TV out) / industry standard connector / no cable ships standard None One Mini PCI IIIb slot (Communications Bay) / customer upgradable Some: Mini PCI 11b Wi-Fi ³² wireless ⁴ , Intersil [®] Prism 2.5 chipset, dual antennas in display cover, Wi-Fi certified / 56K ²⁹ V.90 (V.92-designed ²⁹) modem combo, Lucent [®] chipset Two Communications Daughter Card (CDC) sockets / customer accessible Some: 56K ²⁹ V.90 (V.92-designed ²⁹) CDC modem card / Lucent [®] chip set	 Microsoft Office XP Small Business²⁸ (Word, Excel, Outlook, Publisher, Small Business Tools) Office XP Small Business CD
Ethernet	10/100 ethernet on CDC / Intel 82562ET chipset (physical layer)	Illtrohey Dive integrated moduler
Audio support Security Security chip	SoundBlaster Pro™-compatible / AD1881A AC97 codec / stereo speakers / 1 watt / volume up, down, mute buttons / mic input jack / output jack / line in jack Power-on password / hard disk password / supervisor password / security keyhole / Some: IBM Embedded Security Subsystem³³ / hardware key storage / mulit-factor authentication / local file encryption / enhances VPN security¹⁵	Ultrabay Plus integrated modular bay supports most Ultrabay 2000 devices including CD-RW/DVD Combo II drive, diskette drive, or Zip drive; the optional Ultrabay Plus Device Carrier adds potential
Limited warranty ¹² Service options	1 year - EasyServ ^{TM,19} onsite pickup and delivery courier service Service upgrades ²² provide up to five years of onsite or depot repair service coverage from date of ThinkPad purchase (including warranty period)	functionality by supporting the Ultrabay Plus Numeric Keypad and Cradle for the WorkPad® c500 Series
256 MB PC2100 DI 512 MB PC2100 DI Second HDD Adap 20GB Hard Disk 9. 40GB HS Hard DIS IBM 256MB USB 2 ThinkPad Remova SuperDisk (LS-240 Zip 250MB Ultraba Ultralight 8X Max D	k 9.5mm (5400 rpm) 08K9816 Optical 3-Button Travel Wheel Mouse 31P7410 .0 Memory Key 22P9025 IBM USB Numeric Keypad 33L3225 ble Diskette Drive 08K9603 IBM USB 32MB Memory Key 22P5296 b) UltraBay 2000 08K9616 Portable Drive Bay 2000 19K4480 y 2000 Drive 00N8253 10/100 EtherJet™ CardBus Adapter 08L3147 DVD Ultrabay 2000 22P9102 ServicePac 2yr IOR 9x5 NBD 30L9188 bo III Ultrabay 2000 22P6980 ServicePac 2yr IOR 9x5 NBD 30L9189 rabay 2000 08K6070 ServicePac 3yr IOR 9x5 NBD 30L9195 es Li-lon Battery 02K66878 ServicePac 2yr P&L P/U Depot 30L9191 n battery 02K66649 ServicePac 3yr P&L P/U Depot 30L9192 Adapter 02K66699 Other options at ibm.com/us/pc/accessories	PC 2001-compliant ACPI 1.0b and 2.0 support CIM and DMI 2.0-compliant IBM ImageUltra™ Services available IBM Rapid Restore PC available to protect software image and data Setup Guide, Service and Trouble- shooting Guide, Windows manual International Warranty Service ¹⁷ 24 hour x 7 day¹8 toll-free hardware support during the warranty¹2

Type-model Proces	sor S	peed I	Memory	Screen	Disk	Ultrabay optical	Mini PCI wireless/modem	CDC ethernet	CDC Se modem of		Small Wor usiness Glob		
2652-J4U Pentium 2652-J6U Pentium 2652-M4U Pentium 2652-M6U Pentium 2652-J3U Pentium 2652-J5U Pentium 2652-JCU Pentium 2652-M3U Pentium 2652-M5U Pentium 2652-JEU Pentium 2652-JFU Pentium 2652-JFU Pentium	14-M 1. 14-M 1. 14-M 1. 14-M 1. 14-M 1. 14-M 1. 14-M 1. 14-M 1. 14-M 1.	8GHz 8GHz 6GHz 6GHz 8GHz 8GHz 8GHz 8GHz 8GHz 6GHz	128MB 256MB 256MB 128MB 128MB 128MB 128MB 256MB 256MB 128MB 128MB	14.1" XGA 15" SXGA+ 15" SXGA+ 14.1" XGA 14.1" XGA 14.1" XGA 15" SXGA+ 15" SXGA+ 14.1" XGA 14.1" XGA	20GB 40GB 40GB 20GB 20GB 20GB 20GB 40GB 40GB 20GB 20GB	Combo Combo CD-ROM CD-ROM CD-ROM Combo Combo CD-ROM CD-ROM	11b Wi-Fi ³² /moc Open 11b Wi-Fi/mod Open 11b Wi-Fi/mod Open 11b Wi-Fi/mod Open 11b Wi-Fi/mod Open 11b Wi-Fi/mod	1 10/100 10/100 10/100 10/100 10/100 10/100 10/100 10/100 10/100 10/100 10/100	Modem Open Modem Open Modem Open Modem Open Modem	Yes 2000 XP Pro XP Pro XP Pro XP Pro Yes XP Pro XP Home XP Home	€	No Jun No Jun No Jun No Jun No Man No Man No Jun No Jun No Jun No Jun No Jun No Jun	n 2002 n 2002 n 2002 n 2002 n 2002 n 2003 tr 2003 n 2002 n 2002 n 2002 n 2002
Positioning Processor				sktop alterna n® 4 Process			<i>nal versatility; th</i> Hz with	ree spin	dle	1	SOFTWAR	E ¹⁴	
L2 cache Memory	512KB 128 or 2 two 200	/ on die 256MB)-pin S	e (at pro std / 10 O-DIMM	cessor spee BB max ⁷ / PC I sockets / st	d) / EC0 2100 D d memo	D DR-SDRA ory in one s	Iz frontside bus . M / non-parity / 2 socket / one sock	cet availa	³⁰ / 2.5v / able	 Windows 20 Microsoft[®] Professior ConfigSaf ♦ Disk-to-Di 	[®] Windows [®] nal ²⁰ e [®]		
Diskette drive CD-ROM DVD-ROM/CD-RW Modular bays (both 12.7mm) Disk (removable)	Some: 0 Some: 0 Two mo Ultraba 20 or 40	CD-RC Combo odular y Plus OGB ⁸ /	OM / 24X o / 8X/8X o bays fo s (right s upgrada	-10X ⁹ speed /24X/8X ²¹ sp r interchang ide) / Ultraba ble / S.M.A.	/ boota leed / boe eable do ay 2000 R.T. / 12	ble / removootable / re evices / Ul t left bay en 2.5mm bay	t rabay 2000 (left npty at ship (use	ay Plus Itrabay F side) an s Travel	ıd	(in hidden Windows X - Microsoft Professior	Service Par P Pro mode Windows XF nal ²⁰	tition) els o	
Display	Some: Some:	14.1 " (15.0 " (FlexVi	(358.1m (381mm ew displ	m) XGA (10 2) SXGA+ (1 4 ay with wide	24x768 100x10 viewing	TFT colo 50) TFT co g angle and	r / Active Matrix / Nor / Active Matr I high density (IP	/ 200:1 c ix / 400:1 S techno	l cont / ology)	Windows X - Microsoft ' Edition ²⁰		dels	
Graphics controller Graphics - external	Externa at 75Hz	al moni / DDC	tor supp 2B / sup	ort via analo	g DB-15 al digita	connecto I monitor v		36x16.71	VI colors	(in hidden	Service Par	tition)	
Keyboard ThinkLight™ Case material	87-key TrackPo Illumina	/ Web oint®, "	navigation Press-to e keyboa	on keys (6 to o-Select," Int ard to improv	tal, 3 cu ernet So e visibil	ustomizabl croll Bar ¹³ / ity in low-li	e) / ThinkPad Bu / pitch: 19mm; str ght conditions / r einforced plastic	roke: 2.7 10 UltraP	mm	• Access The - Access Color Adobe Acc	ninkPad Connections robat Reade		
Dimensions ³ Approximate weight ² Battery - type Battery - life ¹⁰	with bat Lithium Mxx: 2.3	ttery ar lon 6-0 3 hr: <i>J</i>	nd optica cell 10.8 xx: 2.5 h	al drive: <i>Jxx:</i> V 4.0Ah / inter; r; <i>All:</i> univers	7.2 lb (3 elligent sal 72 w	3.27kg); <i>M</i> ./ supports / att AC ada	2nd battery in Ul apter (16Vdc 4.5	g) trabay 2	000	PC-DoctoThinkPadIBM UpdaIBM Verita(combo m	Utilities te Connecto as® RecordN		DLA
Architecture Docking Station PC Card Std slots Ports	82801C Low Pir (Ricoh® LPC bu Optiona 2 Type Two US	CAM IC n Coun R5C5 s 33Ml al Thin I, 2 Typ SB (ver	CH3-M I/0 t (LPC) i 52 Card Hz (PC8 kPad Do pe II, or sion 1.1	O Controller nterface, US Bus/1394 co 7392 Super ock or Dock 1 Type III / C) / one 9-pin	Hub (AT BB, Firm mbo co I/O for d II (inclu ardBus serial /	FA-100 EIE ware Hub) ntroller, Mi liskette, se des Ultrab 32-bit / PC parallel / e:	Hub (MCH-M) / DE, PCI bus, ethe J PCI bus 2.2 32: ni PCI, ext expan- rial, parallel, infr ay 2000 and half CMCIA 2.1 / integ xternal DB-15 mi no keyboard or r	-bit, 33M sion) / ared) f-size PC grated do onitor /	Hz Sl slot)	Downloada IBM Rapid IBM Data IBM Direct Client Section model License (CD	ble d Restore™ I Transfer tor Agent curity Softwa els)	re (secur	
Video out Mini PCI 11b Wi-Fi ³² /mod CDC Modem Ethernet	S-video One Min Some: Two Co Some: 10/100	o out point PCI in Mini PCI in	ort (TV o type III s CI 11b V y cover, V V.90 (V.9 ications V.90 (V.9 et on CE	ut) / industry lot (Commu Vi-Fi ³² wirele: Wi-Fi certifie: 92-designed Daughter Ci 92-designed OC / Intel 825	standa nication ss ⁴ , Inte d / ²⁹) mode ard (CD ²⁹) CDC 62ET ch	rd connect s Bay) / cu rsil® Prism em combo, C) sockets modem ca ipset (phys	or / no cable ship stomer upgradal 2.5 chipset, dual Agere® chipset / customer acce ard / Agere® chip sical layer) / PXE	os stando ble antenna essible eset / Wake o	s in n LAN®	Office XP Si only (2652- - Microsoft C Business ²¹	es® Stand-al mall Busine JTU) Office XP Sr ® (Word, Exc Small Busir	one Clien ess mode mall cel, Outloo ness Tools	el ook,
Audio support Security	volume Power- Some: I	up, do on pas IBM Er authen	own, mut sword / mbedde ntication	e buttons / n hard disk pa d Security S / local file en	nic input ssword Subsys cryptior	t jack / out / supervisc tem ³³ / har n / enhance	dec / stereo spea put jack / line in j or password / sec dware key stora es VPN security ¹	jack urity keyl ge / mulit	nole / :-factor	Ultrabay Plu bay supports devices inclu Combo II dri drive; the op	s most Ultral uding CD-R\ ve, diskette tional Ultrab	oay 2000 N/DVD drive, or 2 ay Plus)
Limited warranty ¹² 128 MB PC2100 D 256 MB PC2100 D 512 MB PC2100 D Second HDD Adap 40GB HS Hard Dis IBM 256MB USB 2 ThinkPad Remova Ultralight 8X Max E DVD/CD-RW Com Travel Bezel for Ul ThinkPad A30 Seri Ultrabay 2000 Li-lc ThinkPad 72W AC	DR-SDF DR-SDF DR-SDF oter for U sk 9.5mm 2.0 Memo ble Disk DVD Ultra bbo IV Ultra bbo IV Ultra bo Is Li-lor on batten	RAM CI RAM CI RAM CI Iltrabay 1 (5400 ory Key ette Dri abay 2 trabay 2 trabay 2 trabay 3	L2.5 SOI L2.5 SOI L2.5 SOI / 2000) rpm) / ive 000 2000	D 10K0028 D 10K0030	Thinki Thinki Thinki Thinki Optica IBM 12 Servic Servic Servic Servic Servic	Pad Port R Pad Port R Pad Port R Pad Dock I Pad Dock I I 3-Button 28MB USE ePac 22 1 I ePac 3yr I ePac 3yr F ePac 3yr F	eplicator II ock	0 7 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3	02K8667 74P6733 287810U 263120U 287710U 31P7410 22P8998 30L9189 30L9189 30L9195 30L9191	Setup Guide shooting (Internationa 24 hour x 7 (by supporting Numeric Kee WorkPad* mpliant nd 2.0 suppoll 2.0-completes PC aftware image, Service are Guide, Wind I Warranty Service Work and I Warranty Service Service are suide, Wind I Warranty Service I Warranty Service Areas are supported to the support of the suppor	ng the deppad and c500 Se ort deppad ant deppad and dat deppad and dat deppad and company and company deppad	to ta le- nual

Type-model Proces	sor Speed Memory Screen	Ultrabay Mini PCI Disk optical wireless/modem	CDC CDC Securethernet modem chi			
2652-P3U Pentium 2652-P4U Pentium 2652-P5U Pentium 2652-P6U Pentium	**4-M 1.9GHz 256MB 15" XGA 3 4-M 1.9GHz 256MB 15" XGA 3	0GB ⁸ DVD Open 0GB DVD Open 0GB DVD 11bWi-Fi ³² /mod 0GB DVD 11bWi-Fi/mod	10/100 Modem 10/100 Modem 110/100 Open Yes	XP Pro W G Sep 2002 2000 Sep 2002 S XP Pro W G Sep 2002		
Positioning Processor L2 cache Memory Diskette drive DVD-ROM Modular bays (both 12.7mm) Disk (removable)	High-performance desktop alterna: Mobile Intel® Pentium® 4 Process enhanced Intel SpeedStep™ techne 512KB / on die (at processor speec 256MB std / 1GB max² / PC2100 D two 200-pin SO-DIMM sockets / str None standard / use optional Ultrat DVD-ROM / 8X-3.3X³ speed / boot Two modular bays for interchange Ultrabay Plus (right side) / Ultraba 30GB³ / upgradable / S.M.A.R.T. / supports two additional disks with o	e bus 66MHz³0 / 2.5v / e socket available liskette drive ay Plus 10 (left side) and to (uses Travel Bezel)	SOFTWARE ¹⁴ Windows 2000 models - Microsoft® Windows® 2000 Professional ²⁰ • ConfigSafe® • Disk-to-Disk Recovery (in hidden Service Partition) Windows XP Pro models - Microsoft Windows XP Professional ²⁰ • Disk-to-Disk Recovery			
Display	15.0" (381mm) XGA (1024x768) T	FT color / Active Matrix / 20	0:1 contrast	(in hidden Service Partition)		
Graphics - external	ATI® Mobility™ RADEON™ 7500 / A External monitor support via analog at 75Hz / DDC2B / supports externa port on either of the optional dockin	48x1536x16.7M colors tal Video Interface (DVI	INCLUDED SOFTWARE ¹⁴ (all) Preloaded • Access ThinkPad - Access Connections			
Keyboard ThinkLight™ Case material	87-key / Web navigation keys (6 to TrackPoint®, "Press-to-Select," Intellluminates the keyboard to improve Color: Black; Top: ABS plastic; Bo	- Access Support - Access Help • Adobe Acrobat Reader • PC-Doctor™				
Dimensions ³ Approximate weight ² Battery - type Battery - life ¹⁰	Approximately 13.0 x 10.7 x 1.8"; 3 with battery and optical drive: 7.5 lk Lithium Ion 6-cell 10.8V 4.0Ah / inte 2.5 hr; All: universal 72 watt AC add	ThinkPad Utilities IBM Update Connector™.15 IBM Veritas®RecordNOW and DLA (combo models)				
Docking Station PC Card Std slots Ports	Intel 845MP chipset / 82845MP Me 82801CAM ICH3-M I/O Controller I Low Pin Count (LPC) interface, US (Ricoh® R5C552 CardBus/1394 co LPC bus 33MHz (PC87392 Super I Optional ThinkPad Dock (includes 2 Type I, 2 Type II, or 1 Type III / C Two USB (version 1.1) / one 9-pin infrared (4Mbps) / RJ-11 (modem)	□ IBM Rapid Restore™ PC □ IBM Rapid Restore™ PC □ Sofware Delivery Assistant □ System Migration Assistant □ IBM Director Agent □ Client Security Software (security chip models) □ License (CD not included) □ Lotus® SmartSuite® Millennium and				
Video out Mini PCI 11b Wi-Fi ³² /mod CDC Modem Ethernet	S-video out port (TV out) / industry One Mini PCI type III slot (Commur Some: Mini PCI 11b Wi-Fi³² wireles display cover, Wi-Fi certified 56K²³ V.90 (V.92-designed¹ Two Communications Daughter Ca Some: 56K²³ V.90 (V.92-designed¹ 10/100 ethernet on CDC / Intel 8256	nications Bay) / customer upgs4, Intersil® Prism 2.5 chipseid / d/ go) modem combo, Agere® chard (CDC) sockets / custome co) CDC modem card / Agere	gradable t, dual antennas in ipset r accessible	Lotus Notes® Stand-alone Client Office XP Small Business model only (2652-PTU) - Microsoft Office XP Small Business²® (Word, Excel, Outlook, Publisher, Small Business Tools) Office XP Small Business CD		
Audio support Security	SoundBlaster Pro™-compatible / A volume up, down, mute buttons / m Power-on password / hard disk passome: IBM Embedded Security Sauthentication / local file encryption	D1881A AC97 codec / sterenic input jack / output jack / lissword / supervisor password bubsystem33 / hardware keyn / enhances VPN security16 /	ine in jack d / security keyhole / storage / multi-factor / TCPA-compliant			
Limited warranty ¹² Service options	1 year - EasyServ ^{TM,19} onsite pickup Service upgrades ²² provide up to fi coverage from date of ThinkPad pu	ve years of onsite or depot re	epair service	Ultrabay Plus integrated modular		
256 MB PC2100 D 512 MB PC2100 D Second HDD Adar 20GB Hard Disk D 40GB HS Hard Dis IBM 256MB USB 2 IBM USB Portable ThinkPad Remova SuperDisk (LS-24(Zip 250MB Ultraba Ultralight 8X° Max DVD/CD-RW Com Travel Bezel for Ul Portable Drive Bay IBM 128MB USB 2 IBM Portable USB ThinkPad USB 2.0 IBM MicroPortable	k 9.5mm (5400 rpm) 08K9816 .0 Memory Key 22P9025 Diskette Drive 05K9276 ble Diskette Drive 08K9603 l) UltraBay 2000 08K9616 y 2000 Drive 00N8253 DVD Ultrabay 2000 22P9102 bo III Ultrabay 2000 22P6980 rabay 2000 08K6070 2000 19K4480 .0 Memory Key 22P8998 2.0 CD-RW Drive 22P5297	bay supports most Ultrabay 2000 devices including CD-RW/DVD Combo II drive, diskette drive, or Zip drive; the optional Ultrabay Plus Device Carrier adds potential functionality by supporting the Ultrabay Plus Numeric Keypad and Cradle for the WorkPad® c500 Series PC 2001-compliant ACPI 1.0b and 2.0 support CIM and DMI 2.0-compliant IBM ImageUltra™ Services available IBM Rapid Restore PC available to protect software image and data Setup Guide, Service and Trouble- shooting Guide, Windows manual International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free hardware support during the warranty ¹²				

				Graphic	<u> </u>	Ultrabay	Mini PCI	CDC	CDC Sec	-urity	10/	orkho	rse or Avail	
Type-model Proces		Memory	Screen	memory	y Disk	optical	wireless/modem	ethernet	modem c		eload GI		nodel date	
2652-P8U Pentium 2652-P9U Pentium 2652-PBU Pentium 2652-PCU Pentium 2652-Q3U Pentium 2652-Q5U Pentium 2652-PEU Pentium	14-M 2.0GH 14-M 2.0GH 14-M 2.0GH 14-M 2.0GH 14-M 2.0GH	z 128MB z 256MB z 256MB z 256MB z 256MB	14.1" XGA 15.0" XGA 15.0" XGA 15.0" SXGA- 15.0" SXGA-	16MB 16MB 16MB - 32MB - 32MB	40GB 40GB	CD Combo Combo Combo	11b Wi-Fi/model Open	em 10/100 10/100 m 10/100 10/100	Open Open Open Open		XP Pro XP Pro XP Pro XP Pro XP Pro XP Pro XP Hom	W	Jan 2003 Jan 2003 Jan 2003 Jan 2003 Jan 2003 Jan 2003 Jan 2003	
Positioning Processor L2 cache Memory	Mobile Intel enhanced In 512KB / on 128 or 256N	Pentiun tel Speed die (at pro IB std / 10	n® 4 Processo Step™ techno cessor speed BB max ⁷ / PC2	or-M 2.0 logy¹ an) / ECC 2100 DD	GHz wit d 400Ml	h Hz fronts AM / non	atility; three spin ide bus -parity / 266MHz one socket availa	³⁰ / 2.5v /	Window - Micros Profes	soft® W	/indows®	els XP		
CD-ROM Combo Modular bays (both 12.7mm)	None standa Some: CD-I Some: Com Two modul Ultrabay Pli 20 or 40GBs supports two Some: 14.1 Some: 15.0	ard / use o ROM / 24) bo / 16X/8 ar bays fo us (right s , 4200 rpn o additiona " (358.1m	Plus de Bezel)	(in hidden Service Partition) Windows XP Home models - Microsoft Windows XP Home Editon ²⁰ • ConfigSafe® † Disk-to-Disk Recovery (in hidden Service Partition) INCLUDED SOFTWARE¹⁴ (all)				me						
	Some: 15.0 Flex ATI® Mobilit External mo at 75Hz / DD port on either 87-key / We TrackPoint® Illuminates t	" (381mm View displ y™ RADE nitor supp C2B / sup r of the op o navigati , "Press-to he keyboa) SXGA+ (140 ay with wide v ON™ 7500 / A ort via analog ports externa tional docking on keys (6 tota >-Select, "Inte- ard to improve	Oox1050 riewing a AGP 4X / DB-15 of I digital r g solution al, 3 cus rnet Scrivisibility	n) TFT cangle and pangle and pang	olor / Acid high de EDRAM 1 or / up to 3 via the D	tive Matrix / 400: ensity (IPS techn 66MHz / 16 or 32 2048x1536x16.7 igital Video Interl kPad Button / pa 9mm; stroke: 2.7 ditions / no UltraP	1 cont / ology) PMB M colors face (DVI)	- Acce - Acce • Adobe • PC-Do • Think! • IBM U	s Thin ss Col ss Sup ss He Acrob octor™ Pad Ut pdate eritas®	nnection oport lp oat Read ilities Connect Recordi	er or™.¹:	5 and DLA	
Case material Dimensions ³ Approximate weight ² Battery - type Battery - life ¹⁰	Color: Black; Top: ABS plastic; Bottom: Glass-fiber reinforced plastic Approximately 13.0 x 10.7 x 1.8"; 329mm x 272.5mm x 45.8mm with battery and optical drive: 7.5 lb (3.4kg) Lithium Ion 6-cell 10.8V 4.0Ah / intelligent / supports 2nd battery in Ultrabay 2000 PCU/Q3U/Q5U: 2.3 hr; Others: 2.5 hr; All: universal 72 watt AC adapter (16Vdc 4.5A)									(combo models) Downloadable • IBM Rapid Restore™ PC • Sofware Delivery Assistant • System Migration Assistant • IBM Director Agent				
Docking Station PC Card Std slots Ports	82801CAM Low Pin Cou (Ricoh® R50 LPC bus 33I Optional Thi 2 Type I, 2 T Two USB (v	CH3-M I/0 Int (LPC) i C552 Card MHz (PC8 InkPad Do Type II, or ersion 1.1	nterface, USE Bus/1394 cor 7392 Super I/ ock (includes 1 Type III / Ca	lub (ATA 3, Firmw nbo cont O for dis Ultrabay rdBus 3 erial / pa	A-100 EI vare Hub troller, M skette, so / 2000 a 2-bit / P arallel / 6	DE, PCI b) / PCI bo lini PCI, e erial, par nd half-s CMCIA 2 external [bus, ethernet MA us 2.2 32-bit, 33M xt expansion) / allel, infrared) ize PCI slot) 2.1 / integrated do DB-15 monitor /	lHz	 Client chip m License Lotus[®] 	Secur odels) (CD n Smar	ity Softw ot includ	ed) Iilleni	nium and	
Video out Mini PCI 11b Wi-Fi ³² /mod CDC Modem Ethernet	One Mini PC Some: 11b ante 56K ² Two Commu Some: 56K ²	I type III s Wi-Fi ³² wir nna built i ⁹ V.90 (V.9 Inications V.90 (V.9	elot (Communi eless ⁴ , Mini Po n both sides o 92-designed ²⁶	cations CI, Inters f display noden d (CDC) CDC n	Bay) / co sil® Prisr , Wi-Fi co n combo) socket nodem c	ustomer (m 2.5 chip ertified / o, Agere® s / custor card / Age	oset, UltraConned chipset mer accessible ere® chipset		IBM Rap protect Setup G	Ob and DMI 2 geUltroid Reset software software software software, S	2.0 sup 2.0-comp a™ Serv store PC vare ima	liant ices a avail ge ar ind T	ıd data rouble-	
Audio support Security	volume up, o Power-on pa Some: IBM	down, mut assword / Embedde	e buttons / mi hard disk pas d Security S	c input ja sword / s u bsyste	ack / ou supervis e m 2.0 33	itput jack or passw / hardwa	ereo speakers / 1 / line in jack ord / security keyl re key storage / r ecurity 16 / TCPA-0	hole / nulti-	Internati 24 hour suppo Servicel	x 7 day rt durii	y ¹⁸ toll-fr ng the w	ee ha arran R 9x5	ty ¹² NBD	
Service options	Service upg	rades ²² pr	onsite pickup ovide up to fiv ThinkPad pur	e years	of onsite	e or depo	t repair service		Servicel Servicel	,		5 NB 30	OL9189	
128 MB PC2100 D 256 MB PC2100 D 512 MB PC2100 D Second HDD Adar 20GB Hard Disk D 40GB HS Hard Dis IBM 256MB USB 2 IBM USB Portable ThinkPad Remova Zip 250MB Ultraba Ultralight 8X° Max DVD/CD-RW Com Travel Bezel for Ul IBM High Rate Wir IBM 1GB Microdriv Bluetooth PC Card	DR-SDRAM DR-SDRAM DR-SDRAM ther for Ultrab rive sk 9.5mm (54 2.0 Memory k Diskette Drive DVD Ultraba bo IV Ultraba trabay 2000 reless LAN Pr re	CL2.5 SO CL2.5 SO ay 2000 00 rpm) ey re Drive y 2000 y 2000	D 10K0030	JItrabay Jultiple L ThinkPace ThinkPace ThinkPace ThinkPace ThinkPace ThinkPace ThinkPace ThinkPace BM Optice BM 128I BM Port ThinkPace ThinkPace ThinkPace ThinkPace ThinkPace ThinkPace ThinkPace ThinkPace ThinkPace	2000 Li- Li-Ion/Ni d 72W A d Ultraba d Ultraba d Port Re d Port Re d Mini D d Dock cal Trav Drive Ba MB USB able US	Ion batte MH Batte C Adapte ay Plus C ay Plus N eplicator eplicator ock el Wheel ay 2000 5 2.0 Mem B 2.0 CD 0 CardBo	ry ry Charger er arrier umeric Keypd II Mouse (black)	02K6878 02K6646 02K6719 02K6699 22P5737 22P7330 02K8667 74P6733 287810U 263120U 31P7410 19K4480 22P8998 22P5297 33L3245	Servicel Servicel Servicel Servicel Servicel Other Se	Pac 4y Pac 5y Pac 2y Pac 3y Pac 4y Pac 5y Pac 5y Pac 5y	r IOR 9x r IOR 9x r P&L P/ r P&L P/ r P&L P/ Pac optic services/	36 5 NB 5 NB 5 NB 7 De 7 De 7 De 6 7 De 6 1 De	DL9195 DD 9P9194 9P9196 9P9196 pot DL9191 pot DL9192 pot 9P9195 9P9197	

Type-model Processor	Speed	Memory	Screen	Disk	Ultrabay diskette	Mini PCI wireless/modem	CDC ethernet	Preload	Limited warranty	Avail date
2652-AUU Pentium® 4-M 2653-AUU Pentium 4-M								Windows®XP Pro Windows XP Pro		

These educational models of the ThinkPad A31 notebook must be sold only to qualified education customers. Qualified institution/customer is a public or private K-12 (or higher) accredited school organized and operated exclusively for educational purposes for use by Qualified Students and/or Qualified Teachers.

This model for education is for sale direct from IBM or through an Authorized Education Reseller

		ct from IBM or through an Authorized Educa not available for resale to any other organiza		
Positioning Processor L2 cache Memory	Mobile Intel® Pentium® 4 Proc enhanced Intel SpeedStep™ tec 512KB / on die (at processor sp 256MB std / 1GB max ⁷ / PC210	hnology ¹ and 400MHz frontside bus	iv /	SOFTWARE ¹⁴ Windows XP Pro models - Microsoft® Windows® XP Professional ²⁰ Disk-to-Disk Recovery
Graphics - external Keyboard ThinkLight™ Case material Dimensions³ Approximate weight² Battery - type	Lithium Ion 6-cell 10.8V 4.0Ah /	with travel ay st .7M colors perface palm rest / .7mm aPort TM	(in hidden Service Partition) INCLUDED SOFTWARE¹⁴ (all) Preloaded • Access ThinkPad - Access Connections - Access Support - Access Help • Adobe® Acrobat Reader • PC-Doctor™ • ThinkPad Utilities • IBM Update Connector™ • IBM RecordNOW by Veritas® Downloadable • IBM Rapid Restore™ PC • IBM Data Transfer • IBM Director Agent License (CD not included) - Lotus® SmartSuite® Millennium and	
Battery - life ¹⁰ Architecture Port replicator Docking Station PC Card Std slots Ports	2.3 hours / universal 72 watt AC Intel 845MP chipset / 82845MF 82801CAM ICH3-M I/O Control Low Pin Count (LPC) interface, (Ricoh® R5C552 CardBus conti LPC bus 33MHz (PC87392 Sup Optional ThinkPad Port Replic Optional ThinkPad Dock (inclu 2 Type I, 2 Type II, or 1 Type III Two USB (version 1.1) / one 9- infrared (4Mbps) / RJ-11 (mode	BMHz d Video /	Lotus Notes® Stand Alone Client	
Video out Mini PCI Wi-Fi ³² /modem CDC Ethernet	One Mini PCI type III slot (Commini PCI Wi-Fi ³² wireless ⁴ , Inters Wi-Fi-certified / 56K ⁶ V.90 (V.90 Two Communications Daughte 10/100 ethernet on CDC / Intel ⁸	try standard connector / no cable ships star nunications Bay) / customer upgradeable il® Prism 2.5 chipset, dual antennas in displa- designed ²⁹) modem combo, Lucent® chipse Card (CDC) sockets / customer accessible 2562ET chipset (physical layer)	ay cover,	Ultrabay Plus integrated modular
Open Audio support Security Limited warranty ¹² Service options	One Communications Daughter SoundBlaster Pro™-compatible volume up, down, mute buttons Power-on password / hard disk 2652: 1 year - EasyServ™-19 ons 2653: 3 years/1 year battery - E Service upgrades²² provide up t	Card (CDC) socket open / AD1881A AC97 codec / stereo speakers / / mic input jack / output jack / line in jack password / supervisor password / security ke ite pickup and delivery courier service asyServ onsite pickup and delivery courier s of ive years of onsite or depot repair service purchase (including warranty period)	eyhole /	bay supports most Ultrabay 2000 devices including CD-RW/DVD Combo II drive, diskette drive, or Zip drive; the optional Ultrabay Plus Device Carrier adds potential functionality by supporting the Ultrabay Plus Numeric Keypad and Cradle for the WorkPad® c500 Series
256 MB PC2100 D 512 MB PC2100 D Second HDD Adar 20GB Hard Disk 9. 40GB HS Hard Dis 60GB HS Hard Dis ThinkPad Remova SuperDisk (LS-240 Zip 250MB Ultraba Ultralight 8X Max D	k 9.5mm (5400 rpm) 08K98 k 12.5mm (5400 rpm) 08K96 ble Diskette Drive 08K96 i) UltraBay 2000 08K96 by 2000 Drive 00N82 i) VD Ultrabay 2000 22P91 bo III Ultrabay 2000 08K60 trabay 2000 08K60 ies Li-Ion Battery 02K68 n battery 02K66 Adapter 08K96	BM ThinkPad Ultrabay Plus c500 Cradle ThinkPad Ultrabay Plus Numeric Keypd ThinkPad Port Replicator ThinkPad Dock BM USB Sleek Mouse BM USB Sleek Mouse BM USB SaMB Memory Key Portable Drive Bay 2000 10/100 EtherJet™ CardBus Adapter 2652: ServicePac 2yr IOR 9x5 NBD 2652: ServicePac 2yr IOR 9x5 NBD 2652: ServicePac 3yr IOR 9x5 NBD 2652: ServicePac 3yr P&L P/U Depot 2653: ServicePac 2yr P&L P/U Depot 2653: ServicePac 2yr IOR 9x5 NBD 2653: ServicePac 3yr P&L P/U Depot 2653: ServicePac 2yr IOR 9x5 NBD	22P7330 02K8667 263120U 33L3244 33L3225 22P5296 19K4480 30L9188 30L9189 30L9195 30L9191 30L9199 30L9197	PC 2001-compliant ACPI 1.0b and 2.0 support CIM and DMI 2.0-compliant IBM ImageUltra Services available IBM Rapid Restore PC available to protect software image and data Setup Guide, Service and Trouble- shooting Guide, Windows manual Personalized Web-based support ³¹ Proactive e-mail updates ³¹ International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free hardware support during the warranty ¹²

Type model Proces	noor Si		Momony	Screen	Disk GB ⁸	Ultrabay		Mini PCI wireless/mod	CDC	CDC S		Proload	Limited	
Type-model Proces 2652-JUU Pentium 2653-JUU Pentium 2653-J9U Pentium 2653-Q5U Pentium	า® 4-M 1.6 า 4-M 1.6 า 4-M 1.8	6GHz 6GHz 8GHz	128MB 128MB	14.1" XGA 14.1" XGA 14.1" XGA	20G 20G 20G	CD-ROM CD-ROM	Diskette Diskette Diskette	11b Wi-Fi ³² /n 11b Wi-Fi/mo 11b Wi-Fi/mo 11b Wi-Fi/mo	nod 10/100 dem 10/100 dem 10/100	Open Open Open	No No No	XP Pro XP Pro XP Pro	1 year 3 year 3 year	Jun 2002 Jun 2002 Mar 2003
These educations accredited school This model for ed The model or	l organize lucation is	ed an s for s	d operate sale direc	ed exclusive at from IBM o	ly for ed or throug	lucational gh an Auth	ourposes orized Ed	for use by Quucation Rese	alified Stud ller.					
Positioning Processor	High-pe	rform	ance des	sktop alterna n® 4 Proces	tives wi	ith exception	onal vers	atility; three sp	oindle			OFTWA		
L2 cache	enhance	ed Int	el Speed	Step™ techr cessor spee	ology¹ a	and 400Ml						Pro mo Window		
Memory	128 or 2	56MI	3 std / 10	3B max ⁷ / PC	2100 E	DR-SDR		parity / 266M one socket av		Prof	essiona			
Diskette drive	3.5" 1.44	4MB /	remova	ble from left	Ultraba	y 2000 (bu	t travel b	ezel in bay at	ship)			Service F)
CD-ROM Combo								m Ultrabay Pl le from Ultrab				OFTWA	ARE ¹⁴ (a	ıll)
Modular bays (both 12.7mm)	Two mo	dula	r bays fo	r interchang	eable d	evices / U	trabay 2	000 (left side) hip (uses Trav	and	PreloaAcce	aded ess Thi	nkPad		
Disk (removable)	20 or 40	GB ⁸ ,	4200 rpr	n, 9.5mm / u	pgradal	ble / S.M.A	∖.Ř.Ť. / 12	2.5mm bay / .ch modular b	•		cess Co cess So	onnectic upport	ns	
Display								Matrix / 16M	-	- Ac	cess H		ıder	
) ŚXGA+ (1 4 / FlexView (ve Matrix / ngle and high	density	PC-	Doctor [™]	M	idoi	
	ι	using	in plane	switching (IF	PS) tech	nology					nkPad U Update	e Conne	ctor ^{TM,15}	
Graphics controller Graphics - external	Externa	l mon	itor supp	ort via analo	g DB-1	5 connecto	or / up to 2	048x1536x16	.7M colors	 IBM 	loadab Rapid	le Restore	тм РС	
	at 75Hz	/ DDC either	C2B / sup of the op	ports extern tional docki	āl digita ng solut	al monitor vions	/ia the Di	gital Video Int	erface (DVI	• IBM	Data T	ransfer or Agent		
Keyboard	87-key /	Web	navigati	on keys (6 to	otal, 3 ci	ustomizab	le) / Thin	Pad Button /	palm rest/	• Clie	nt Secu	rity Soft		ecurity
ThinkLight™	Illumina	tes th	e keyboa	ard to improv	e visibi	lity in low-l	ight cond	9mm; stroke: 2 itions / no Ultr			model) se (CD) not inclu	ıded)	
Case material Dimensions ³				S plastic; <i>Bi</i> 10.7 x 1.8-1.								rtSuite® s® Stand		
Approximate weight ² Battery - type	with batt	tery a	nd optica	al drive: <i>JUL</i>	<i>l:</i> 7.3 lb	(3.32kg); (<i>Q5U:</i> 7.5	lb (3.4kg) ery in Ultraba	, 2000					
Battery - life ¹⁰	2.3 hr / ι	ınive	rsal 72 w	att AC adap	ter (16V	/dc 4.5A)			2000	PC 200	01-com	pliant		
Architecture	82801C	AM IC	CH3-M I/0		Hub (AT	A-100 EID	E, PCI bu	ıs, ethernet M		CIM ar	nd DMI	d 2.0 su 2.0-com	ipliant	
	(Ricoh®	R5C5	552 Cardl	Bus/1394 co	mbo coı	ntroller, Mi	ni PCI, ex	2.2 32-bit, 33 t expansion) /	IVITZ	IBM R	apid Re	tra™ Sei estore P	C availa	able to
Docking Station	Optiona	l Thir	nkPad Do		II (inclu	ıdes Ultrab	ay 2000	and half-size				ware im Service		
PC Card Std slots Ports								.1 / integrated B-15 monitor		shoo	oting G	uide, Wi Warrant	ndows r	manual
	infrared	(4Mb	ps) / RJ-	11 (modem)	/ RJ-45	(ethernet)	/ no keyb	oard or mouse		24 hou	ır x 7 da	ay ¹⁸ toll- ring the	free har	dware
Video out Mini PCI	One Min	ni PĊI	type III s	slot (Commú	nication	ns Bay) / cu	ustomer u	able ships sta pgradable				ePac®, 22		
11b Wi-Fi ³² /mod	All:	11b V anter	Vi-Fi³² wir nna built i	eless⁴, Mini l n both sides	PCI, Inte of displa	ersil® Prisn ay, Wi-Fi c	n 2.5 chip ertified /	set, UltraCon	nect™		NBD	ePac 2y	30	L9188
CDC	Two Cor	56K ²⁹ mmui	V.90 (V.	92-designed Daughter C	l ²⁹) mod ard (CD	em combo	, Agere® (s / custor	chipset ner accessible)			ePac 3y	30	L9189
Ethernet	10/100 €	ether	net on CI	DC / Intel 825	62ET cl	nipset (phy	sical laye) / PXE / Wak	e on LAN®	1		-	30	L9195
Audio support	volume	up, d	own, mut	te buttons / r	nic inpu	t jack / ou	tput jack	reo speakers / line in jack				ePac 4y	69	P9194
Security								ord / security k e key storage		2652:	Service	ePac 5y		(5 NBD P9196
Limited warranty ¹²				local file end erv ^{™,19} onsite				curity ¹⁶ /TCG	-compliant	2652:	Service	Pac 2y		/U Depot L9191
-	2653: 3	vears	s/1 vear b	oatterv - Eas	vServ o	nsite picku	p and de	ivery courier s	service	2652:	Service	Pac 3y		/U Depot L9192
Service options	coverag	upgra e fror	n date of	Ovide up to t ThinkPad p	ive year urchase	rs of onsite e (including	or depo	repair servic period)	e	2652:	Service	Pac 4y	r P&L P/	U Depot P9195
128 MB PC2100 E						Pad A30 Se			02K6878	2652:	Service	Pac 5y	r P&L P	/U Depot
256 MB PC2100 E 512 MB PC2100 E	DR-SDR	RAM C	L2.5 SO	D 10K0032	Multipl		MH Batte	ry Charger	02K6646 02K6719	265 <u>3</u> :	Service	Pac 2yr	IOR 9x	
Second HDD Ada 20GB Hard Disk [Itraba	ay 2000	08K6068 08K9686		Pad 72W A Pad Ultraba			02K6699 22P5737	265 <u>3</u> :	Service	Pac 3yr		L9190 5 NBD
40GB HS Hard Di IBM 256MB USB				08K9816 22P9025	ThinkF		ay Plus N	umeric Keypo		2653:	Service	Pac 4yr		L9197 5 NBD
IBM USB Portable ThinkPad Remova	Diskette	Ďrive	e _	05K9276 08K9603	ThinkF	Pad Port R Pad Mini D	eplicator	II	74P6733 287810U	_		Pac 5yr	69	P9198
ThinkPad Multi-Bu	urner Ultra	abay 2	2000 Driv		ThinkF	Pad Dock I	l	Mouse (block	287710U	_		•	69	P9200 U Depot
DVD/ČD-RW Con	nbo IV Ult	rabay		22P6991	Portab	ile Drive Ba	ay 2000	Mouse (black)	19K4480	_		•	69	P9201
Travel Bezel for U IBM High Rate Wi	ireless LA	N PC	Card 12		ThinkF	ortable US Pad USB 2	0 CardBu	ıs Adapter	22P5297 33L3245	ibı	m.com			source/
Bluetooth PC Car	d II from I	BM		19K5796	Other	options at i	bm.com/	us/pc/access	ories	wa	amomxe	eu.pdf		

2653-H4U Pentiun 2653-H5U Pentiun 2653-H6U Pentiun 2653-HTU Pentiun	ssor GHz Memory Scr n [®] 4-M 1.7 256MB 15" L n 4-M 1.7 256MB 15" L n 4-M 1.7 256MB 15" L	JXGA 60GB	optical *DVD/CD-RW	Mini PCI		d/Blu Chip	
	n4-M 1.7 256MB 15 C n4-M 1.7 256MB 15" U n4-M 1.7 256MB 15" U	JXGA 60GB JXGA 60GB	DVD/CD-RW DVD/CD-RW DVD/CD-RW	Open Wi-Fi ³² /mod Wi-Fi/mod	10/100 Blu	dem Yes etooth Yes etooth Yes	XP Pro No Mar 2002 Windows® 2000 No Mar 2002 XP Pro No Mar 2002 Windows 2000 No Mar 2002 XP Pro Office XP SB ²⁸ No Mar 2002
Positioning Processor _2 cache Memory	High-performance des Mobile Intel® Pentium enhanced Intel Speed: 512KB / on die (at pro 256MB std / 1GB max two 200-pin SO-DIMM	n® 4 Process Step™ techno cessor speed 7 / PC2100 2 0	sv /	SOFTWARE ¹⁴ Windows XP Pro models - Microsoft® Windows® XP Professional Disk-to-Disk Recovery			
Modular bays Disk (removable) Display Graphics controller	None standard / use of / Combo / 8X/8X/24X/8. Two modular bays fo Ultrabay Plus (right s 60GB³ / high-speed 54 supports two additional 15.0" (381mm) UXGA FlexView display with (IPS) technology ATI® Mobility™ FireG supports OpenGL tech External monitor supp at 75Hz / DDC2B / sup	ptional Ultrab X ²¹ speed / bo r interchange ide) / Ultraba 400 rpm / upg al disks with o -IPS (1600x' wide viewing L TM 7800 / Ao norlogy for 31 ort via analog	ay™-based or potable / remove able devices / y 2000 left bay radeable / S.M. potional HDD actional HDD actio	USB-based drable from Ult Ultrabay 200 empty at ship. A.R.T. / dapter in each or / Active Mandensity usin DDR-SDRAM ctor / up to 204	iskette drive rabay Plus 10 (left side) o (uses Trav n modular ba trix / 400:1 c g in plane sv 1 183MHz / 48x1536x16	and el Bezel) ay contrast / vitching	(in hidden Service Partition) Windows 2000 models - Microsoft Windows 2000 Professional¹³ • ConfigSafe® ♦ Disk-to-Disk Recovery (in hidden Service Partition) INCLUDED SOFTWARE¹⁴ (all) Preloaded • Access ThinkPad - Access Connections - Access Help
Keyboard FhinkLight™ UltraPort™ Case material	(DVI) port on either of 87-key / Web navigation rest / TrackPoint®, "Pro Illuminates the keyboa UltraPort connector or Color: black; Top: AB:	the optional of on keys (6 tot ess-to-Select ard to improve on top of displa	docking solution cal, 3 customiza t," Internet Scro e visibility in low by for options si	ns able) / ThinkP oll Bar / pitch: v-light condition uch as digital	ad Button / 19mm; stro ons UltraPort Ca	oalm ke: 2.7mm	- Access Support • Adobe Acrobat Reader • InterVideo™ Win DVD • MGI VideoWave 4 • PC-Doctor™ • ThinkPad Utilities
Dimensions ³	Approximately 13.0 x with battery and optica Lithium Ion 6-cell 10.8 2.0 hours / universal 7	10.7 x 1.8"; 3: al drive: 7.7 lb V 4.0Ah / inte	29mm x 272.5r (3.49kg) elligent / suppor	nm x 45.8mm	1	2000	IBM Update Connector™.15 Veritas RecordNOW Downloadable IBM Rapid Restore™ PC IBM Data Transfer
Architecture Port replicator Docking Station PC Card Std slots Ports	Intel 845MP chipset / 82801CAM ICH3-M I/C Low Pin Count (LPC) i 33MHz (Ricoh® R5C5: LPC bus 33MHz (PC8 Optional ThinkPad Do 2 Type I, 2 Type II, or Two USB (version 1.1 infrared (4Mbps) / RJ-	O Controller I nterface, US 52 CardBus/ ⁻ 7392 Super I ort Replicato ock (includes 1 Type III / Ca) / one 9-pin s	Hub (ATA-100 I B [Bluetooth], F 1394 combo co /O for diskette, r Ultrabay 2000 ardBus 32-bit / serial / parallel	EIDE, PCI bustirmware Hub ntroller, Mini F serial, paralle and half-size PCMCIA 2.1 / external DB	s, ethernet No) / PCI bus 2 PCI, ext expa el, infrared) PCI slot) / no Zoome -15 monitor	2.2 32-bit, .nsion) / d Video /	Client Security Software (models with security chip) IBM Director Agent License Lotus® SmartSuite® Millennium and Lotus Notes® Client 5.0 Office XP Small Business models only
Video in and out EEE 1394 Mini PCI Wi-Fi ³² /modem	S-video in and out por IEEE 1394 FireWire po One Mini PCI IIIb slot (Some: Mini PCI Wi-Fi display cover / Two Communications	ts / industry s ort (Communicat ³² wireless ⁴ , li 56K ⁶ V.90 (V Daughter Ca	tandard conne tions Bay) / cus ntersil® Prism 2 .92-designed ²⁹ trd (CDC) sock	ctors / cable s tomer upgrad .5 chipset, du) modem com ets / custome	ships standa deable al antennas abo, Lucent® r accessible	ard in chipset	 Microsoft Office XP Small Business²⁸ (Word, Excel, Outlook, Publisher, Small Business Tools) Office XP Small Business CD
Modem Ethernet Bluetooth™	Some: 56K ⁶ V.90 (V.9 10/100 ethernet on CE Some: Bluetooth wire	OC / Intel 8256 less technolo	2ET chipset (ph gy / on CDC / p	nysical layer) power button	on display		Ultrabay Plus integrated modular bay supports most Ultrabay 2000 devices including CD-RW/DVD Combo drive,
Audio support Security Security chip	SoundBlaster Pro™-cc volume up, down, mut Power-on password / IBM Embedded Secu authentication / local fi	e buttons / m hard disk pas rity Subsyst	ic input jack / o ssword / superv t em 33 / hardwar	output jack / li isor password e key storage	ine in jack d / security ke	eyhole /	diskette drive, or Zip drive; the optional Ultrabay Plus Device Carrier adds potential functionality by supporting the Ultrabay Plus Numeric Keypad and Cradle for the WorkPad® c500
_imited warranty ¹² Service options	3 years/1 year battery Service upgrades ²² pro coverage from date of	ovide úp to thi	ee years of ons	site or depot re	epair service		Series
256 MB PC2100 D 512 MB PC2100 D Second HDD Ada; 20GB Hard Disk D 40GB Hard Disk D 60GB HS Hard Dis IBM USB Portable ThinkPad Remova SuperDisk (LS-24 Zip 250MB Ultraba	Orive sk Drive (5400 rpm) Diskette Drive able Diskette Drive O) UltraBay 2000	0 10K0030 0 10K0032 08K6068 08K9686 08K9687 08K9688 05K9276 08K9603 08K9616 00N8253 22P9101	Ultrabay 2000 L Multiple Li-Ion/I ThinkPad 72W ThinkPad Ultra ThinkPad Ultra ThinkPad Port I ThinkPad Dock IBM USB Keyb IBM USB Sleek IBM USB 3Eek IBM USB 3TOR	NiMH Battery AC Adapter bay Plus Carr bay Plus Csor bay Plus Num Replicator oard w/ USB & Mouse B Memory Key Bay 2000	ier 0 Cradle neric Keypd Ports	02K6646 02K6719 02K6699 22P5737 22P5738 22P7330 02K8667 263120U 10K3849 33L3244 22P5296 19K4480 09N9774	PC 2001-compliant ACPI 1.0b and 2.0 support CIM and DMI 2.0-compliant IBM ImageUltra Services available IBM Rapid Restore PC available to protect software image and data Setup Guide, Service and Trouble- shooting Guide, Windows manual Personalized Web-based support International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free hardware support during the warranty

			Ultrabay		CDC CDC	Security	/ Small bus Workhorse or Avail
Type-model Process 2653-N3U Pentium 2653-N4U Pentium 2653-N5U Pentium 2653-N6U Pentium 2653-NTU Pentium	** 4-M 1.8 256MB 14-M 1.8 256MB 14-M 1.8 256MB 14-M 1.8 256MB	15" UXGA 60G 15" UXGA 60G 15" UXGA 60G 15" UXGA 60G	:BBBDVD/CD-RWBDVD/CD-RWBDVD/CD-RWBDVD/CD-RWBDVD/CD-RWBDVD/CD-RWBDVD/CD-RWBDVD/CD-RW	Open Wi-Fi ³² /mod Wi-Fi/mod	10/100 Bluetoo	Yes Yes oth Yes oth Yes	XP Pro No Jun 2002 Windows® 2000 No Jun 2002
Positioning Processor L2 cache Memory Diskette drive DVD-ROM/CD-RW Modular bays Disk (removable)	Two modular ba Ultrabay Plus (ri- 60GB*/high-spe-	ntium® 4 ProcespeedStep™ tech to processor spemax²/PC2100 DIMM sockets / size optional Ultra 4X/8X²¹ speed / yys for interchangth side) / Ultrabed 5400 rpm / up / ultrabed 5400 rpm / ultrabe	ssor-M 1.8GHz v nology¹ and 400 ed) / ECC DDR-SDRAM / std memory in or abay™-based or bootable / remov geable devices / bay 2000 left bay gradeable / S.M	with MHz frontside 266MHz ³⁰ / note socket / one USB-based dotable from Ult Ultrabay 200 rempty at ship I.A.R.T. /	on-parity / 2.5v / e socket availab iskette drive rabay Plus 0 (left side) and o (uses Travel B	ole	SOFTWARE ¹⁴ Windows XP Pro models - Microsoft® Windows® XP Professional ♦ Disk-to-Disk Recovery (in hidden Service Partition) Windows 2000 models - Microsoft Windows 2000 Professional ¹³ • ConfigSafe®
Display Graphics controller Graphics - external	supports OpenGL	XGA-IPS (1600 with wide viewir FireGL™ 7800 / / technology for support via anal / supports extern	x1200) TFT colong angle and high AGP 4X / 64MB 3D applications og DB-15 connenal digital monito	or / Active Mandensity using DDR-SDRAM ctor / up to 20 or 5 via the Digi	trix / 400:1 contr g in plane switch I 183MHz / 48x1536x16.7M	colors	 Disk-to-Disk Recovery (in hidden Service Partition) INCLUDED SOFTWARE¹⁴ (all) Preloaded Access ThinkPad Access Connections Access Help Access Support
Keyboard ThinkLight™ UltraPort™ Case material Dimensions³ Approximate weight² Battery - type	87-key / Web nav TrackPoint®, "Pre Illuminates the ke UltraPort connect Color: black; Top Approximately 13	igation keys (6 t ss-to-Select," Ir yboard to impro or on top of disp : ABS plastic; E .0 x 10.7 x 1.8"; ptical drive: 7.7	otal, 3 customizaternet Scroll Barve visibility in low blay for options someone: glass-fibration x 272.51 lb (3.49kg)	able) / ThinkP r¹³ / pitch: 19m v-light condition uch as digital er reinforced p mm x 45.8mm	nm; stroke: 2.7m ons UltraPort Came olastic	ra	Adobe Acrobat Reader InterVideo™ Win DVD MGI VideoWave 4 PC-Doctor™ ThinkPad Utilities IBM Update Connector™. Veritas RecordNOW and DLA Downloadable IBM Rapid Restore™ PC
Port replicator Docking Station PC Card Std slots Ports Video in and out IEEE 1394 Mini PCI	2.0 hours / univer Intel 845MP chip 82801CAM ICH3 Low Pin Count (L 33MHz (Ricoh® R LPC bus 33MHz (Optional ThinkPa Optional ThinkPa 2 Type I, 2 Type I Two USB (version infrared (4Mbps) S-video in and ou IEEE 1394 FireW One Mini PCI type	set / 82845MP N -M I/O Controlle PC) interface, U 5C552 CardBus PC87392 Supe Id Port Replicat Id Dock (include I, or 1 Type III / n 1.1) / one 9-pir / RJ-11 (modem t ports / industry ire port	Memory Controller Hub (ATA-100 SB [Bluetooth], Is (1394 combo cor I/O for diskette, tor cor I/O for diskette, bor cardBus 32-bit / n serial / parallel) / RJ-45 (etherner standard conners	er Hub (MCH- EIDE, PCI bu: Firmware Hub ontroller, Mini F serial, paralle and half-size PCMCIA 2.1 / external DB et) / IEEE 1394 ectors / cable s	s, ethernet MAC) / PCI bus 2.2 3 PCI, ext expansicel, infrared) PCI slot) / no Zoomed Vi- 15 monitor / / no keyboard/noships standard	2-bit, on)/ deo	BM Data Transfer IBM Director Agent Client Security Software (security chip models) License (CD not included) Lotus® SmartSuite® Millennium and Lotus Notes® Standalone Client Office XP Small Business models only (Model NTU) Microsoft Office XP Small Business²® (Word, Excel, Outlook, Publisher, Small Business Tools) Office XP Small Business CD
Wi-Fi³²/modem CDC Modem Ethernet Bluetooth™ Audio support Security	Some: Mini PĆİ \	Wi-Fi ³² wireless ⁴ ver / 56K ⁶ V.90 (tions Daughter 0 (V.92-designed on CDC / Intel 825 wireless techno or m-compatible / , mute buttons / ord / hard disk p.	, Intersil® Prism 2 V.92-designed ²⁵ Card (CDC) sock Jego (CDC) modem 562ET chipset (pl llogy / on CDC / J AD1881A AC97 mic input jack // assword / superv	2.5 chipset, du 2) modem com lets / custome lets / custome lets / custome lets / custome power button codec / stere output jack / li visor password	al antennas in hbo, Lucent® chip r accessible chip set on display o speakers / 1 w ne in jack l / security keyho	vatt /	Certified software - Visit ibm.com/pc/thinkpad/cert.html for a complete list of applications certified to run on the ThinkPad A31p Supported operating systems - Microsoft Windows XP Professional - Microsoft Windows 2000 - Microsoft Windows 98 Second Edition
Limited warranty ¹² Service options	authentication / lo 3 years/1 year ba Service upgrades coverage from da	ocal file encryption ttery - EasyServ 22 provide up to t	on / enhances VI TM,19 onsite pickup hree years of ons	PN security ¹⁶ p and delivery site or depot re	courier service		 Microsoft Windows 98 Microsoft Windows Millennium Edition Microsoft Windows NT® 4.0 SP6a
128 MB PC2100 DI 256 MB PC2100 DI 512 MB PC2100 DI Second HDD Adap 20GB Hard Disk D 40GB Hard Disk D 60GB HS Hard Dis IBM USB Portable ThinkPad Remova SuperDisk (LS-24C Zip 250MB Ultraba 8X/4X/24X Max CI Ultralight 8X Max D DVD/CD-RW Com Travel Bezel for Ult ThinkPad A30 Seri	DR-SDRAM CL2.5 DR-SDRAM CL2.5 ther for Ultrabay 200 rive rive k 9.5mm (5400 rpr Diskette Drive ble Diskette Drive b) UltraBay 2000 y 2000 Drive D-RW Ultrabay 2000 bO II Ultrabay 2000 bt II Ultrabay 2000 trabay 2000	SOD 10K0030 SOD 10K0032 00 08K6068 08K9686 08K9688 05K9276 08K9603 08K9616 00N8253 0 22P9101 22P9102	Ultrabay 2000 I Multiple Li-Ion/ ThinkPad 72W ThinkPad Ultra ThinkPad Ultra ThinkPad Dock IBM USB Keyb IBM USB Sleel IBM 128MB US Portable Drive 10/100 Enet /5 ServicePac 3y Other options a	NiMH Battery AC Adapter Jubay Plus Carr Jubay Plus Csor Jubay Plus Num Replicator AC Jubay Plus Num Rep	Charger 0: 00: 00: 00: 00: 00: 00: 00: 00: 00:	2K6646 2K6719 - 2K6699 2P5737 2P5738 2P7330 2K8667 63120U 0K3849 3L3244 2P8998 9K4480 9N9774 0L9190	- Red Hat Linux® - SuSE Linux PC 2001-compliant ACPI 1.0b and 2.0 support CIM and DMI 2.0-compliant IBM ImageUltra Services available IBM Rapid Restore PC available to protect software image and data Setup Guide, Service and Trouble- shooting Guide, Windows manual Personalized Web-based support³¹ Proactive e-mail updates³¹ International Warranty Service¹² 24x7 toll-free support¹8 for warranty- related issues during the warranty period¹²

			Ultrabay	,	CDC	CDC Securit	v S	mall hus \	Norkhorse or Ava
Type-model Processo			optical	Mini PCI	ethernet mo	d/Blue chip	Preload S		Global model da
2653-R4U Pentium 4 2653-R5U Pentium 4 2653-R6U Pentium 4 2653-R8U Pentium 4 2653-RBU Pentium 4 2653-R9U Pentium 4 2653-RCU Pentium 4	4-M 2.0 256MB 15" l 1-M 2.0 256MB 15" l	JXGA 60 or 80GB JXGA 60 or 80GB JXGA 60 or 80GB JXGA 40GB JXGA 40GB JXGA 40GB JXGA 40GB	* Combo * Combo Combo Combo Combo Combo	Open 11b Wi-Fi ³² /mod 11b Wi-Fi/mod Open Open 11b Wi-Fi ³² /mod 11b Wi-Fi/mod	10/100 Bli 10/100 Mc 10/100 Mc d10/100 Bli 10/100 Bli	odem Yes uetooth Yes uetooth Yes odem Yes uetooth Yes uetooth Yes	Windows 2 XP Pro Windows® XP Pro Windows 2	000 2000 000	No Sep 200 No Sep 200 No Sep 200 No Sep 200 No Mar 200 No Mar 200 No Mar 200 SB ²⁸ No Sep 200
Positioning Processor	High-performance de Mobile Intel® Pentiu	ım® 4 Processor-	M 2.0GHz	with		oindle	Windows >	SOFTW.	
L2 cache Memory	enhanced Intel Spee 512KB / on die (at pi 256MB std / 1GB ma two 200-pin SO-DIM	rocessor speed) / ax ⁷ / PC2100 DD R	ĔCC I -Sdram	/ 266MHz ³⁰ / n	on-parity / 2		- Microsoft Professio	t® Window onal Disk Reco	very
Diskette drive Combo Modular bays (both 12.7mm) Disk (removable)	None standard / use DVD-ROM/CD-RW / Two modular bays Ultrabay Plus (right 40GB ⁸ (9.5mm, 5400 upgradable and rem HDD adapter in each	/ 8X/16X/10X/24X for interchangeab side) / Ultrabay 2 0 rpm), 60GB (12. ovable / 12.5mm ba	²¹ speed / le devices 000 left ba 5mm, 540	removable fron s / Ultrabay 200 ay empty at shi _l 0rpm), or 80GE	n Ultrabay F 0 (left side) o (uses Tra 3 (9.5mm, 4	Plus and vel Bezel) 200rpm) /	Windows 2 - Microsoft Professio • ConfigSa	t Windows onal ¹³ Ife®	els 2000 very
Display	15.0" (381mm) UXG FlexView display wit						INCLUDED	SOFTW	ARE ¹⁴ (all)
Graphics controller Graphics - external	ATI® Mobility™ Fire supports OpenGL te External monitor sup at 75Hz / DDC2B / su (DVI) port on either of	GL™ 7800 / AGP chnology for 3D a port via analog Di ipports external di	4X / 64MI pplication: B-15 conn igital moni	B DDR-SDRAN s lector / up to 20 ltor via the Digit	1 183MHz / 48x1536x16	6.7M colors	AccessAccess	Connection Help Support	
Keyboard ThinkLight™ UltraPort™ Case material	87-key / Web naviga TrackPoint®, "Press- Illuminates the keybo UltraPort connector Color: black; Top: A	to-Select," Interne pard to improve vis on top of display fo	et Scroll B sibility in lo or options	ar¹³ / pitch: 19n ow-light condition such as digital	nm; stroke: ons UltraPort C	2.7mm	Adobe AcInterVideMGI VidePC-DoctoThinkPacIBM Upda	o™ Win D oWave 4 or™ d Utilities	VD
Dimensions ³ Approximate weight ² Battery - type Battery - life ¹⁰	Approximately 13.0 with battery and opti- Lithium Ion 6-cell 10 2.0 hours / universal	cal drive: 7.7 lb (3 .8V 4.0Ah / intellig	.49kg) ent/supp	orts 2nd batter		y 2000	Veritas RDownloadaIBM RapiSofware	lecordNO able id Restore	W and DLA [™] PC
Architecture Port replicator Docking Station PC Card Std slots Ports	Intel 845MP chipset 82801CAM ICH3-M Low Pin Count (LPC 33MHz (Ricoh® R5C LPC bus 33MHz (PC Optional ThinkPad I Optional ThinkPad I 2 Type I, 2 Type II, o Two USB (version 1 infrared (4Mbps) / Ra	I/O Controller Hub) interface, USB [I 552 CardBus/139 87392 Super I/O Port Replicator o Dock or Dock II (ii r 1 Type III / Card 1) / one 9-pin seri	o (ATA-10 Bluetooth] 4 combo of for diskett r Port Rep ncludes U Bus 32-bi al / paralle	0 EIDE, PCI bu , Firmware Huk controller, Mini F e, serial, paralli blicator II Itrabay 2000 ar t / PCMCIA 2.1 el / external DB	s, ethernet b) / PCI bus PCI, ext expand el, infrared) ad half-size / integrated -15 monitor	2.2 32-bit, ansion) / PCI slot)	 System N IBM Direct Client Se chip mod License (C Lotus Sr Lotus No 	digration Actor Agent curity Softels) D not included martSuite tes® Stand	Assistant t tware (security
Video in and out IEEE 1394 (FireWire) Mini PCI 11b Wi-Fi³²/mod CDC Modem Ethernet Bluetooth™	S-video in and out IEEE 1394 (FireWire One Mini PCI type III Some: Mini PCI 11b	ports / industry st e) port (4-pin conr slot (Communica Wi-Fi ³² wireless ⁴ , ' / 56K ⁶ V.90 (V.92 is Daughter Card .92-designed ²⁹) C CDC / Intel 82562E	andard conector) Itions Bay Intersil® P -designed (CDC) sod DC mode T chipset	nnectors / cabl) / customer up trism 2.5 chipse trism 2.5 chip	e ships star gradable t, dual ante bo, Lucent r accessible chip set PXE/Wak	ndard nnas in chipset	 Microsoft Business 	Office XF ²⁸ (Word, r, Small Bı	Excel, Outlook, usiness Tools)
Audio support Security	SoundBlaster Pro TM -volume up, down, m Power-on password IBM Embedded Sec authentication / loca	ute buttons / mic i / hard disk passw curity Subsystem	nput jack ord / supe 1 ³³ / hardw	/ output jack / l ervisor password rare key storage	ne in jack I / security k e / multi-fac	eyhole /			
Limited warranty ¹²	3 years/1 year batter						Certified so		ninkpad/cert.htm
256 MB PC2100 DD	ve 9.5mm (5400 rpm) 0. Memory Key 0. Memory Key 0. Memory Key 0. Memory Key 0. Drive 0. IV Ultrabay 2000 0.000 0.0 CD-RW Drive	0 10K0030 Ultra 0 10K0032 Multi 08K6068 Thinl 08K9816 Thinl 02P9025 Thinl 05K9276 IBM 08K9603 Serv 00K8253 Serv 22P6991 Serv 08K6070 Serv 19K4480 Serv 2295297 Serv	bay 2000 l ple Li-lon/ kPad Port kPad Mini kPad Dock kPad Dock Optical Tra icePac sy icePac sy icePac 5y icePac 5y icePac 5y	(narger use (black) BD ot	02K6878 02K6646 02K6719 74P6733 287810U 263120U 287710U 31P7410 30L9190 30L9197 69P9198 69P9200 69P9200 69P9201 ies	for a composertified to PC 2001-cc ACPI 1.0b a CIM and DM IBM Imagel IBM Rapid protect so Setup Guid shooting Internations 24x7 toll-fre	plete list co o run on the ompliant and 2.0 si MI 2.0-cor Ultra™ Se Restore F oftware in le, Servico Guide, W al Warran ee suppoi	of applications ne ThinkPad A31 upport

Type-model Processo	r MHz Mem Screen Disk	CD or DVD C	Communica Bay		WINDOWS 98 PRELOAD ¹⁴
2647-21U Pentium I 2647-24U Pentium I 2647-64U Pentium I 2647-44U Pentium I 2647-44U Pentium I 2647-84U Pentium I 2647-852U Pentium I 2647-55U Pentium I 2647-95U Pentium I 2647-95U Pentium I 2647-95U Pentium I 2647-11U* Pentium I 2647-46U Pentium I 2647-46U Pentium I	1 650 128MB 13.3" XGA 6.0 1 650 128MB 13.3" XGA 6.0 1 650 128MB 13.3" XGA 6.0 1 650 128MB 13.3" XGA 6.0 1 650 128MB 13.3" XGA 6.0 1 700 128MB 14.1" XGA 12.0 1 700 128MB 14.1" XGA 12.0 1 700 128MB 14.1" XGA 12.0 1 750 128MB 14.1" XGA 20.0 1 700 128MB 14.1" XGA 12.0	GB 24X-10X°CD n GB 24X-10X CD n GB 24X-10X CD n GB 24X-10X CD n GB 6X-2.3X°DVD n GB 6X-2.3X DVD n	nodem ntel® eth/mod nodem ntel eth/mod nodem ntel eth/mod nodem ntel eth/mod nodem ntel eth/mod nodem ntel eth/mod nodem ntel eth/mod nodem scome ntel eth/mod nodem ntel eth/mod nodem accome eth/mod	98SE May 00 98SE May 00 2000 May 00 2000 May 00 98SE Jun 00 98SE Jun 00	 Microsoft® Windows® 98 Second Edition¹3 ThinkPad Utilities ThinkPad Assistant™ ConfigSafe® IBM Update Connector™.15 Access ThinkPad II PC-Doctor™ Mediamatics DVD Express (if DVD) Lotus® SmartSuite® Millennium and Lotus Notes® Client 5.0 license Software Selections CD-ROM Recovery CD-ROM (Windows 98 SE)
Processor	Intel® Mobile Pentium® III 650	700, or 750MHz ^{1,24} v		dStep™	♦ Řecovery CD-RÓM (Windows 95)
L2 cache Memory	technology and 100MHz syste 256KB / onboard (at processor 128MB standard / 512MB maxi 3.3v / two 144-pin SO-DIMM sc	speed) / ECC mum ⁷ / SDRAM / non			• WINDOWS 2000 PRELOAD ¹⁴ - Windows 2000 Professional ¹³ • ThinkPad Utilities • ThinkPad Assistant
Diskette drive CD-ROM DVD-ROM UltraBay 2000 Disk	3.5" 1.44MB (use in UltraBay 20 parallel port) Some: CD-ROM / 24X-10X ⁹ sp Some: DVD-ROM / 6X-2.3X ⁹ sp Modular bay for interchangeabl 6GB ⁸ or 12GB or 20GB / upgra HDD Adapter in Ultrabay 2000	eed / bootable / removeed / bootable / removeed / bootable / remove devices / on all A ar	vable from Ultratovable from Ultra ovable from Ultra nd T Series, Thir	pay™ 2000 abay 2000 akPad Dock	ConfigSafe IBM Update Connector Access ThinkPad II PC-Doctor Mediamatics DVD Express (if DVD) Lotus® SmartSuite® Millennium and Lotus Notes® Client 5.0 license
Display	13.3" (337.8mm) XGA (1024x7 14.1" (358.1mm) XGA (1024x7	68) TFT color / Activ	e Matrix		♦ Software Selections CD-ROM ♦ Recovery CD-ROM (Windows 2000) ♦ Recovery CD-ROM (Windows NT)
Graphics controller Graphics - external	S3® Savage IX8 / AGP 2X / 8M External SVGA to 1024x768x10			600x1200	LINUX PRELOAD ¹⁴
Keyboard ThinkLight™ UltraPort™	ThinkPad Button / palm rest / Illuminates the keyboard to imp UltraPort connector on top of di	rove visibility in low-li	ght conditions		- Caldera® OpenLinux eDesktop™2.4 • Access ThinkPad II
Dimensions ³ Approximate weight ² Case material Battery - type Battery - life ¹⁰ Charge time ¹⁰ - on / off	12" x 9.8" x 1.3"; 304mm x 2500 With CD-ROM drive and batter Titanium Composite in the top Lithium Ion 6-cell / intelligent / s 4 hours (3.75 hours for Pentium	y: 5.0 lbs / with DVD o and bottom covers foupports unique 2nd b	or enhanced stre	ength ⁴	StarOffice Netscape Communicator OpenLinux eDesktop CD-ROM Recovery CD-ROM The right bay (Ultrabay 2000) supports
Port replicator Docking Station PC Card Std slots Ports Other features Video out Communicatns Bay	Intel 440BX AGPset / Intel PII) ISA Bridge, USB) / TI® PCI1450 PCI 2.1 / 32-bit / 33MHz (EIDE, PC97338 Super I/O / ISA (disket ThinkPad Port Replicator ThinkPad Dock (includes Ultra 2 Type I, 2 Type II, or 1 Type III USB: One (Version 1.1) / Seria external DB-15 monitor / infrare 72 watt AC Adapter S-video out / one industry stand for S-video to composite conve Communications Bay with Mini	O for ČardBus / AGP 2 CardBus, audio, USI ette, serial, parallel, in bay 2000 and half-siz / CardBus 32-bit / PC : one 9 pin / Parallel: d (4Mbps) / RJ-11 (m	2X for graphics / B, ext expansion of frared, ext exp) ze PCI slot) CMCIA 2.1 / Zoo one / keyboard / nodem) / RJ-45 (MPEG-2 support are accessible	med Video / mouse / ethernet)	the following: optional CD-ROM optional DVD drive optional Zip drive optional second battery optional SuperDisk (LS-120) drive optional CD-RW optional HDD adapter; for second disk optional travel bezel optional ThinkPad Proven™ solutions¹6
Modem Ethernet/modem Audio support Security	Some models: 56K ⁶ V.90 Mini F Some models: IBM 10/100 Ethe 3Com ethernet chipset / Lucent PCI audio / SoundBlaster Pro™ stereo speakers / 1 watt / volum input jack (3.5 mm) / output jac Power-on password / hard disk	erJet™ Mini PCI Adap modem chip set support / CS4624 wi le up, down, mute but ((3.5 mm) / line in iac	oter with 56K Mod ith CS4297A AC ttons / internal m ck	97 codec / nicrophone /	PC 99-compliant CIM and DMI 2.0 compliant Wired for Management 2.0 Local and remote asset manage ment via the IBM Universal
Limited warranty ¹² Service options	3 year - carry-in or ThinkPad E Optional service upgrades prov coverage from date of ThinkPa	asyServ™.¹º depot repide up to three years	pair service via o of onsite or depo	courier ot repair service	Manageability solutions IBM PC Lifecycle Care provides proactive life cycle management and transition planning tools
56K Modem by 3Cc - IBM 10/100 EtherJo 56K Modem Ultrabay 2000 interci - 6X-2X DVD Ultraba - SuperDisk (LS-120) - 24X-10X CD-ROM - 4X/4X/20X CD-Rea - Zip 250MB Ultrabay - Ultrabay 2000 Li-lor - Travel Bezel for Ultr Wireless connectivit - IBM 802.11b Wirele	et Mini PCI Adapter with 09N9774 et Mini PCI Adapter with 08K3124 nangeable accessories y 2000 Drive 05K9232 t) UltraBay 2000 Drive 05K9233 d/Write Ultrabay 2000 oN8253 v 2000 Drive 00N8253 n battery 02K6646 rabay 2000 09	- 64MB SO DIMM 1 - 128MB SO DIMM 1 - 128MB SO DIMM - 256MB SO DIMM - 6.0GB HDD - 18.0GB HDD - 20GB HDD - Second HDD Ada - Portable Drive Bay - ThinkPad Port Re - ThinkPad T Series - ThinkPad T Series - ThinkPad Monitor - IBM Ultraport Carr - RCA video conver	ooMHz NP SDR 100MHz NP SDI 100MHz NP SDI 100MHz NP SDI pter for Ultrabay y 2000 eplicator (A and T A and T Series) s Battery C Adapter Stand nera II sion cable ter	AM 20L0254 RAM 20L0255 RAM 33L3069 05K9237 05K9238 05K9239 27L3439 2000 08K6068 19K4480 Ser) 02K8667 02K6649 02K6649 02K6649 00K8222 04P6135	ENERGY STAR compliant Setup Guide, User's Reference, Windows manual Asset ID™ wireless RF technology (via installing into disk cover) IBM is planning to announce Bluetooth™ wireless technology communications devices including a Bluetooth PC Card option and Bluetooth option for the ThinkPad UltraPort connector in the second half of 2000 Personalized Web-based support International Warranty Service¹ IBM SystemXtra®.20 24 hour x 7 day¹8 toll-free hardware support during the warranty

Type model Dresses	w MHz Mom Coroon D	iak CD or DVD	Communico Pou	Drolond Avail	WINDOWS SS PDFL CAPIA
799-model Processor		isk CD or DVD IGB ⁸ 24X-10X ⁹ CD	modem		WINDOWS 98 PRELOAD ¹⁴ - Microsoft® Windows® 98 Second
2647-2BU Pentium 2647-6BU Pentium 2647-4FU Pentium 2647-4AU Pentium 2647-8FU Pentium 2647-8FU Pentium 2647-8BU Pentium 2647-8FU Pentium 2647-L7U* Pentium 2647-5FU Pentium 2647-5FU Pentium	750 128MB 13.3" XGA	IGB 24X-10X CD IGB 24X-10X CD IGB 24X-10X CD IGB 8X-2.3X DVD IGB 8X-2.3X DVD	3Com®eth/mod modem 3Com eth/mod modem Intel®eth/mod 3Com eth/mod modem Intel eth/mod 3Com eth/mod modem Intel eth/mod modem modem	98SE Oct 00 98SE Oct 00 2000 Oct 00 98SE Oct 00 98SE Oct 00 98SE Oct 00 2000 Oct 00 2000 Oct 00 2000 Oct 00 2000 Oct 00 2000 Oct 00 98SE Oct 00 2000 Oct 00 2000 Oct 00 2000 Oct 00 2000 Oct 00 2000 Oct 00	Edition¹³ • ThinkPad Utilities • ThinkPad Assistant™ • ConfigSafe® • IBM Update Connector™.¹⁵ • Access ThinkPad II • PC-Doctor™ • Mediamatics DVD Express (if DVD) • Lotus® SmartSuite® Millennium and Lotus Notes® Client 5.0 license ♦ Software Selections CD-ROM ♦ Recovery CD-ROM (Win 98 SE)
Processor	Intel® Mobile Pentium® III 750		with Intel Speed	dStep™	- WINDOWS 2000 PRELOAD ¹⁴ - Windows 2000 Professional ¹³
L2 cache Memory	technology and 100MHz syste 256KB / onboard (at processor 128MB standard / 512MB maxi 3.3v / two 144-pin SO-DIMM so	speed) / ECC mum ⁷ / SDRAM / no			ThinkPad Utilities ThinkPad Assistant ConfigSafe IBM Update Connector
Diskette drive CD-ROM DVD-ROM UltraBay 2000 Disk	3.5" 1.44MB (use in UltraBay 20 Some: CD-ROM / 24X-10X° spe Some: DVD-ROM / 8X-2.3X° sp Modular bay for interchangeabl 10GB° or 20GB (4200 rpm) or S.M.A.R.T. / supports 2nd disk	eed / bootable / remeeed / bootable / remeeed / bootable / remeeded devices / on all A ab a seed with optional HDD A	ovable from Ultral novable from Ultra and T Series, Thir 5400rpm) / upgra dapter in Ultraba	bay™ 2000 abay 2000 nkPad Dock adeable /	Access ThinkPad II PC-Doctor Mediamatics DVD Express (if DVD) Lotus SmartSuite Millennium and Lotus Notes Client 5.0 license Software Selections CD-ROM Recovery CD-ROM (Windows 2000)
Display	13.3" (337.8mm) XGA (1024x7 14.1" (358.1mm) XGA (1024x7 14.1" (358.1mm) SXGA+ (1400	68) TFT color / Act	ive Matrix		Recovery CD-ROM (Windows NT) LINUX PRELOAD ¹⁴
Graphics controller	Others: S3® Savage IX8 / AGF 5xx/9xx: S3 Savage IX8+ / AGI				- Caldera® OpenLinux™ eDesktop 2.4
Graphics - external	External SVGA to various mode	s such as 16.7 milli	on colors, 85Hz,	1600x1200	Access ThinkPad II StarOffice
Keyboard ThinkLight™ UltraPort™	ThinkPad Button / palm rest / Illuminates the keyboard to imp UltraPort connector on top of di	ove visibility in low- splay for options su	light conditions	_	Netscape Communicator OpenLinux eDesktop CD-ROM Recovery CD-ROM
Dimensions ³ Approximate weight ² Case material Battery - type Battery - life ¹⁰	12" x 9.8" x 1.3"; 304mm x 250r with CD or DVD drive and batte Titanium Composite in the top Lithium Ion 6-cell / intelligent / s 750MHz: 3.7hr; 800MHz: 3.5hr;	ry: <i>750MHz:</i> 5.2 lb; and bottom covers upports unique 2nd	for enhanced stre	ength ⁴	The right bay (Ultrabay 2000) supports the following: o optional or standard CD-ROM optional or standard DVD drive optional Zip drive
Port replicator Docking Station PC Card Std slots Ports	Intel 440BX AGPset / Intel PII) ISA Bridge, USB) / TI® PCI1456 PCI 2.1 / 32-bit / 33MHz (EIDE, PC97338 Super I/O / ISA (diske Optional ThinkPad Port Replic Optional ThinkPad Dock (inclu 2 Type I, 2 Type II, or 1 Type III USB: One (Version 1.1) / Serial	ofor CardBus / AGF CardBus, audio, Us tte, serial, parallel, ator des Ultrabay 2000 a / CardBus 32-bit / F : one 9 pin / Paralle	2 2X for graphics / SB, ext expansion infrared, ext exp) and half-size PCI a PCMCIA 2.1 / Zoo I: one / keyboard	slot) omed Video / mouse /	optional second battery optional SuperDisk (LS-120) drive optional CD-RW optional HDD adapter; for second disk optional travel bezel optional ThinkPad Proven™ solutions¹6
Otherfeatures	external DB-15 monitor / infrare 72 watt AC Adapter				Service options: Optional service upgrades ²² provide up to three
Video out Communicatns Bay Modem Ethernet/modem	S-video out / one industry stand for S-video to composite convel Communications Bay with Mini Some models: 56K ⁶ V.90 Mini Some models: IBM 10/100 Eth	sion available PCI IIIb slot / custor PCI modem card / L	mer accessible Lucent® chip set	·	years of onsite or depot repair service coverage from date of ThinkPad purchase (including warranty period)
	ethernet chipse Some models: IBM 10/100 Eth	t / 3Com modem ch	ip set) apter with 56K Mo	`	PC 99-compliant CIM and DMI 2.0 compliant Wired for Management 2.0
Audio support	PCI audio / SoundBlaster Pro™ stereo speakers / 1 watt / volum input jack (3.5 mm) / output jack	e up, down, mute b	uttons / internal m		Local and remote asset manage ment via the IBM Universal Manageability solutions
Security Limited warranty ¹²	Power-on password / hard disk 3 year - EasyServ ^{TM,19} onsite pic			curity keyhole	IBM PC Lifecycle Care ²¹ provides proactive life cycle management
Ultrabay 2000 interc -8X-2X DVD Ultraba -2X SuperDisk (LS-1 -24X-10X CD-ROM	hangeable accessories y 2000 Drive 27L3448 20) UltraBay 2000 27L3451 Ultrabay 2000 Drive 05K9233 d/Write Ultrabay 2000 00N8253 o battery 02K6646 rabay 2000 08K6070	- 64MB SO DIMM - 128MB SO DIMM - 256MB SO DIMM - 10GB HDD - 20GB HDD - 32GB HDD - Second HDD Ad - Portable Drive Ba (accepts all Ultra - ThinkPad Port R	100MHz NP SDR 1100MHz NP SD 1100MHz NP SD apter for Ultrabay ay 2000 bay 2000 storage eplicator (A and T	RAM 20L0255 RAM 33L3069 08K9510 27L3439 08K9511 2000 08K6068 19K4480 devices)	and transition planning tools ENERGY STAR compliant Setup Guide, User's Reference, Windows manual Asset ID™ wireless RF technology (via installing into disk cover) Personalized Web-based support International Warranty Service¹7 IBM SystemXtra®20 24 hour x 7 day¹8 toll-free hardware support during the warranty
- IBM 802.11b Wirel- - Bluetooth™ PC Cal Other - IBM IEEE 1394 Ca - IBM 1GB Microdriv - T Series FDD Exter	rdBus Card 19K5679 e 07N5574	I-ThinkPad T Serie	es Battery iMH Battery Chard C Adapter r Stand mera II ersion cable	02K6649	Communication Bay Options - IBM 10/100 EtherJet Mini PCI Adapter with 56K Modem by 3Com - IBM 10/100 EtherJet Mini PCI Adapter with 56K Modem 08K3124

Type-model Processo	r MHz Memory	Screen Dis	k CD or DVD	Communications Bay		Preload	Available
2647-2AU Pentium 2647-6AU Pentium 2647-DAU Pentium 2647-48U Pentium 2647-EAU Pentium 2647-8BU Pentium 2647-5AU Pentium 2647-9AU Pentium	II 750 128MB 1 II 800 128MB 1 II 800 128MB 1 II 800 128MB 1 II 800 128MB 1 II 850 128MB 1	3.3" XGA 10G 4.1" XGA 20G 4.1" XGA 20G 4.1" XGA 20G		Intel® ethernet/modem Intel ethernet/modem Intel ethernet/modem modem Intel ethernet/modem Intel ethernet/modem Intel ethernet/modem	Windows Windows Windows Windows	2000 98 SE, Small Business 98 SE, Small Business 2000, Small Business 2000, Small Business 98 SE	Nov 2000 Nov 2000 Mar 2001 Mar 2001 Mar 2001 Mar 2001 Nov 2000 Nov 2000
Processor L2 cache Memory Diskette drive CD-ROM DVD-ROM UltraBay 2000 Disk Display Graphics controller Graphics - external Keyboard ThinkLight™ UltraPort™ Dimensions³ Approximate weight² Case material Battery - type Battery - life¹⁰ Architecture Port replicator Docking Station PC Card Std slots Ports Other features Video out Communicatns Bay Modem Ethernet/modem Audio support Security Limited warranty*.¹² Service options	ogy and 100MHz 256KB / onboard 128MB standard, 3.3v / two 144-pin 3.5" 1.44MB (use Some: CD-ROM / Some: DVD-ROM Modular bay for in 10GB 3, 20GB (42 S.M.A.R.T. / supp 13.3" (337.8mm) 14.1" (358.1mm) 14.1" (358.1mm) 14.1" (358.1mm) 1750/800MHz: S3 External SVGA to ThinkPad Buttor Illuminates the ke UltraPort connect 12" x 9.8" x 1.3"; 3with CD or DVD d Titanium Compo Lithium Ion 6-cell 750MHz: 3.7hr; 8l Intel 440BX AGP ISA Bridge, USB) PCI 2.1 / 32-bit / 3PC97338 Super IV Optional ThinkPad Dytional ThinkPad Cyronal Cyro	system bus (at processor spe (at processor spe (at processor spe (at processor spe (at processor spe (at processor spe (at processor spe (at processor spe (at processor spe (at processor spe (at processor spe (at processor (a	end) / ECC m ⁷ / SDRAM / non- ts / 128MB in one: or attach ext with op / bootable / remove it / bootable / remove it / bootable / remove it / bootable / remove it / bootable / remove it / bootable / remove it / bootable / remove it / bootable / remove it / bootable / remove it / bootable / remove it / bootable / remove it / solor / Active it / solor / solor / Active it / solor / sol	Matrix ctive Matrix AM / 64-bit path to memory and / 64-bit path to memory and / 64-bit path to memory and / 64-bit path to memory and / 64-bit path to memory and / 64-bit path to memory and / 64-bit path and	-	WINDOWS 98 PREL Microsoft® Windows® 98 Edition¹³ Some models: Office 20 Business (Word, Excel, Publisher, Small Busine preloaded and CD-RON ThinkPad Utilities ThinkPad Assistant™ ConfigSafe® IBM Update Connector™ Access ThinkPad II PC-Doctor™ Mediamatics DVD Expr. Lotus® SmartSuite® Mille Lotus Notes® Client 5.0 Software Selections CD Recovery CD-ROM (Wi WINDOWS 2000 PR Windows 2000 Professis Some models: Office 20 Business preloaded and ThinkPad Utilities ThinkPad Utilities ThinkPad Assistant ConfigSafe IBM Update Connector Access ThinkPad II PC-Doctor Mediamatics DVD Expr. Lotus SmartSuite Millen Lotus Notes Client 5.0 Ii Software Selections CD Recovery CD-ROM (Wir and Windows NT) The right bay (Ultrabay 20 e following: optional or standard CD- optional or standard CD- optional SuperDisk (LS- optional SuperDisk (LS- optional HDD adapter; fo optional Thomal Proven™ se C 99-compliant If and DMI 2.0 compliant If and DMI 2.0 complia	as Second as Sec
Ultrabay 2000 interc -8X-2X DVD Ultraba -2X SuperDisk (LS-24X-10X CD-ROM -4X/4X/20X CD-Rea -Zip 250MB Ultrabay 2000 Li-loi -Travel Bezel for Ult Wireless connectivit -IBM 802.11b Wirel -IBM 802.11b Wirel -Bluetooth PC Car Other -IBM IEEE 1394 Ca -IBM 1GB Microdriv -T Series FDD Exter	y 2000 Drive 20) UltraBay 2000 Ultrabay 2000 Driv d/Write Ultrabay 20 v 2000 Drive n battery rabay 2000 y ess LAN PC Card ess LAN Access Pord (avail 4Q 2000) rdBus Card	27L3448 27L3451 - 2 e 05K9233 - 1 000 00N8253 - 3 02K6646 08K6070 - F 09N9863 - (09N9863 - 1 09N9812 - 1 19K5679 - 7 07N5574 - F	28MB SO DIMM 1 256MB SO DIMM 1 10GB HDD 20GB HDD 32GB HDD Second HDD Adap Portable Drive Bay accepts all Ultraba	00MHz NP SDRAM 20 00MHz NP SDRAM 33 06 27 08 20 09 19 2000 19 2000 storage devices) 31 2000 storage devices) 4 2000 storage devices 20 20 20 20 20 20 20 20 20 20 20 20 20	DL0254 DL0255 SBL3069 3K9510 A: 7L3439 3K9511 P. 3K6068 In 9K4480 2: 2K8667 33110U C. 2K6649 -1 2K6699 I. 2K6699 I. 2K6699 I. 2K6699 I. 2K6699 I. 2K6699 I.	BM Rapid Restore PC av protect software image etup Guide, User's Refer Windows manual sset ID™ wireless RF ter (via installing into disk cersonalized Web-based ternational Warranty Se 4 hour x 7 day¹8 toll-free support during the warrational warranty Se Septiment of the Warranty Se Septiment of the Warranty Se Septiment of the Warranty Se Septiment of the Warranty Se Septiment of the Warranty Septiment o	and data rence, chnology cover) support rivice ¹⁷ heardware anty ons i PCI 09N9774 i PCI

Type-model Processo		Mem	Screen	Disk	Optical	Comm Bay	Preload	Available	
2647-3CU Pentium 2647-7CU Pentium 2647-3EU Pentium 2647-4CU Pentium 2647-8CU Pentium 2647-8CU Pentium 2647-8EU Pentium 2647-8GU Pentium 2647-8GU Pentium 2647-8GU Pentium 2647-5CU Pentium 2647-5CU Pentium 2647-5EU Pentium 2647-6CU Pentium 2647-6CU Pentium 2647-6CU Pentium 2647-6EU Pentium 2647-6EU Pentium 2647-6EU Pentium 2647-AEU Pentium 2647-A	800 800 800 900 900 900 900 1900 16Hz 16Hz 16Hz 16Hz 1900 900	128M 128M 128M 128M 128M 128M 128M 128M	13.3" XGA 13.3" XGA 13.3" XGA 14.1" XGA 14.1" XGA 14.1" XGA 14.1" XGA 14.1" XGA 14.1" XGA 14.1" XGA 14.1" SXGA+ 14.1" SXGA+	10G 10G 20G 20G 20G 20G 20G 20G 32G 32G 32G 32G 32G	CD-ROM CD-ROM CD-ROM DVD-ROM	modem modem Intel® eth/mod Intel eth/modem modem modem Intel eth/modem Intel eth/modem Intel eth/modem Intel eth/modem Intel eth/modem modem modem Intel eth/modem	2000 98 SE 2000 98 SE 2000 98 SE 2000 Linux® 98 SE 2000 98 SE 2000 98 SE 2000 98 SE 2000 98 SE	Mar 2001	Windows 98 models - Microsoft® Windows® 98 Second Edition¹3 ♦ Disk-to-Disk Recovery (in hiddenService Partition) Windows 2000 models - Windows 2000 Professional - PC Card Wizard ♦ Disk-to-Disk Recovery to Windows 2000 or Windows NT 4.0 (in hidden Service Partition) Linux models - Caldera® OpenLinux™ eDesktop 2.4 • StarOffice™ • Netscape® Communicator
Processor			Pentium® III 80 ad 100MHz sys			GHz ¹ with Intel S	SpeedSt	tep™	♦ OpenLinux eDesktop CD-ROM♦ Recovery CD-ROM
L2 cache Memory	256KB 128MB	/ onboa standa	ird (at process rd / 512MB ma	or spe	ed) / ECC n² / SDRAM /	/ non-parity / 100N n one socket / 1 so			ADDITIONAL PRELOADED SOFTWARE
Diskette drive CD-ROM DVD-ROM UltraBay 2000 Disk	3.5" 1.4 Some: Some: Modula 10GB ⁸ S.M.A.	I4MB (u CD-RO DVD-RO Ir bay fo or 20GI R.T. / su	se in UltraBay M / 24X-10X ⁹ s DM / 8X-2.3X ⁹ r interchangea 3 (4200 rpm) c	2000 c speed / speed ble dev or 32Gi sk with	or attach ext of bootable / re bootable / vices B (High spe optional HD	with optional cable emovable from Ult removable from U ed 5400rpm) / up D Adapter in Ultra	via paral trabay™ Itrabay 2 gradeab	llel port) 2000 2000	Common to all models ThinkPad Assistant™ Access ThinkPad II Common to most Windows models ThinkPad Utilities ConfigSafe® IBM Update Connector™.15
	14.1" (358.1mi	ກ) XGA (1024	x768) ˈ	TFT color / /				 Easy Keys Utility PC-Doctor™
Graphics controller Graphics - external	Externa	al SVGA	to various mo	des su	ıch as 16.7 n	oit path to memory nillion colors, 85H	z, 1600x		Mediamatics™DVD (models with DVD-ROM) Lotus® SmartSuite® Millennium and
Keyboard ThinkLight™ UltraPort™	Bar / pi	tch: 19n ates the	Pad Button / pann; stroke: 2.7 keyboard to in ector on top of	'mm nprove		Lotus Notes® Client 5.0 license			
Dimensions ³ Approximate weight ² Case material Battery - type Battery - life ¹⁰ AC adapter	with CE Titaniu Lithium 800MH	or DVI I m Com I Ion 6-c Iz: 3.5hr	posite in the t	ttery: 8 op and / suppo //z:3.21	800MHz: 5.2 bottom cove orts unique 2	lb; <i>900MHz:</i> 5.3 lb ers for enhanced s and battery in Ultra	strength	1	The right bay (Ultrabay 2000) supports the following: optional or standard CD-ROM optional or standard DVD drive optional Zip drive
Architecture Docking Station PC Card Std slots Ports	ISA Bri PCI 2.1 PC973 Optiona 2 Type USB: C	dge, US / 32-bit 38 Supe al Think I, 2 Typ One (Ver	BB) / TI® PCI14 : / 33MHz (EID er I/O / ISA (dis : Pad Dock (ind e II, or 1 Type :sion 1.1) / Ser	50 for E, Car kette, ludes III / Ca ial: one	CardBus / AdBus, audio serial, parall Ultrabay 200 IrdBus 32-bi 9 pin / Para	JItra DMA/33 or PI GP 2X for graphic, USB, ext expans el, infrared, ext ex 00 and half-size Pi t / PCMCIA 2.1 / Z allel: one / keyboa 1 (modem) / RJ-4	cs / .ion) / .p) CI slot) Coomed ' rd / mou	Video se /	 optional second battery optional SuperDisk drive optional CD-RW optional CD-RW/DVD combo optional HDD adapter (for 2nd disk) optional travel bezel optional ThinkPad Proven™ solutions¹6
Video out Communicatns Bay Modem Ethernet/modem Audio support	for S-vi Commi Some: Some: PCI aud	deo to dunication 56K ⁶ V. IBM 10, (3Com Intel PF modern dio / Sou	omposite convins Bay with Mi 90 Mini PCI m /100 Ethernet l ethernet chips RO/100 SP Mir I / Intel 82550E undBlaster Pro	version ni PCI odem Mini P(et / 3C ni PCI / EY ethe o™ sup	available IIIb slot / cus card / Lucen CI Adapter w om modem o Adapter / Mir ernet chipset port / CS462	ith 56K Modem	h 56K chipset AC97 co	dec/	PC 99-compliant CIM and DMI 2.0 compliant Wired for Management 2.0 Local and remote asset manage ment via the IBM Universal Manageability solutions IBM ImageUltra Services available IBM Rapid Restore PC available to protect software image and data
Security	input ja	ck (3.5	mm) / output ja	ack (3.	5 mm) / line i	in jack ervisor password /			Asset ID™ wireless RF technology (via installing into disk cover)
Limited warranty*,12						courier service	,	-	Personalized Web-based support International Warranty Service ¹⁷
64MB SO DIMM 100 128MB SO DIMM 10 256MB SO DIMM 10 SuperDisk (LS-240) Zip 250MB Ultrabay 24X-10X CD-ROM U 8X/4X/24X CD-RW U 8X-2X DVD Ultrabay CD-RW/DVD Combo Travel Bezel for Ultra Second HDD Adapte	OMHz N OMHz N UltraBay 2000 Dri Iltrabay 2000 D Ultraba bay 200	IP SDR/ IP SDR/ / 2000 ive 2000 Dr 2000 rive ay 2000	AM 20L025 AM 33L306 08K96 00N82 05K92: 08K956 27L344 08K957 08K600 000 08K600	55 Ult 59 Th 16 Mu 53 Th 53 Th 59 Th 18 Po 72 Ult 58 T S 38 10	inkPád 72W Iltiple Li-lon/ inkPad Port inkPad Mock inkPad Mont rtable Drive raPort Came raPort Digita Series FDD E /100 Enet /5	Li-Ion battery AC Adapter NiMH Battery Cha Replicator C tor Stand 2001 Bay 2000 Bay 2000 Bay Array Microphor External Cable Kit 6K Mini PCI (3Cor	ne m)	02K6649 02K6646 02K6699 02K6719 02K8667 263120U 22P5265 19K4480 09N4178 27L0524 09N9774	24 hour x 7 day 18 toll-free hardware support during the warranty Service options: Optional service upgrades ²² provide up to three years of onsite or depot repair service coverage from date of ThinkPad purchase (including warranty period)
30GB HDD 32GB HDD			08K959 08K95		el Pro/100 S rvicePac ^{®, 22}	3yr IOR 9x5 NBD		06P3801 30L9197	

^{*} For a copy of IBM's Statement of Limited Warranty, call 1-800-772-2227
*** Linux preloaded model does not support most options and has other limitations²⁵
US models withdrawn effective July 2001 or November 2001 or April 2002

Type-model	Processor	MHz	Memory	Screen	Disk	Optical	Modular Bay	Comm Bay	Preload		Available
2647-M2U	Pentium III	900	128MB	14.1" XGA	20GB ⁸	DVD-ROM	Ultrabay 2000	Modem	Windows® 98 SE,S	SB	Mar 2001
2647-M3U	Pentium III	900	128MB	14.1" XGA	20GB	DVD-ROM	Ultrabay 2000	Modem	Windows 2000, S	SB	Mar 2001
2647-M4U	Pentium III	900	128MB	14.1" XGA	20GB	DVD-ROM	Ultrabay 2000	Intel® ethernet/mod	Windows 98 SE, S	SB	Mar 2001
2647-M5U	Pentium III	900	128MB	14.1" XGA	20GB	DVD-ROM	Ultrabay 2000	Intel ethernet/mod	Windows 2000, S	SB	Mar 2001
2647-M6U	Pentium III	1GHz	128MB	14.1" SXGA+	32GB	DVD-ROM	Ultrabay 2000	Intel ethernet/mod	Windows 2000, S	SB	Mar 2001
2647-N5U	Pentium III	900	128MB	14.1" XGA	20GB	DVD-ROM	Ultrabay 2000	Intel ethernet/mod	Windows 2000,	ΧP	Aug 2001
2647-N6U	Pentium III	1GHz	128MB	14.1" SXGA+	32GB	DVD-ROM	Ultrabay 2000	Intel ethernet/mod	Windows 2000,		Aug 2001

D 111 1		
Positioning Processor	Perfect balance of performance and portability Intel® Mobile Pentium® III 900MHz¹.²⁴ or 1GHz¹ with Intel SpeedStep™	OPERATING SYSTEM PRELOAD14, 27
LOcacha	technology and 100MHz system bus	Windows 98 models
L2 cache Memory	256KB / onboard (at processor speed) / ECC 128MB standard / 512MB maximum ⁷ / SDRAM / non-parity / 100MHz / PC 100 / 3.3v / two 144-pin SO-DIMM sockets / 128MB in one socket / 1 socket available	- Microsoft® Windows® 98 Second Edition¹3
Diskette drive CD-ROM DVD-ROM UltraBay 2000 Disk	3.5" 1.44MB (use in UltraBay 2000 or attach ext with optional cable via parallel port) Some: CD-ROM / 24X-10X ⁹ speed / bootable / removable from Ultrabay™ 2000 Some: DVD-ROM / 8X-2.3X ⁹ speed / bootable / removable from Ultrabay 2000 Modular bay for interchangeable devices / on all A and T Series, ThinkPad Dock 20GB ⁸ (4200 rpm) or 32GB (High speed 5400 rpm) / upgradeable / S.M.A.R.T. / supports 2nd disk with optional HDD Adapter in Ultrabay 2000	 Disk-to-Disk Recovery (in hiddenService Partition) Windows 2000 models Windows 2000 Professional Disk-to-Disk Recovery to Windows 2000 or Windows NT 4.0
Display	14.1" (358.1mm) XGA (1024x768) TFT color / Active Matrix 14.1" (358.1mm) SXGA+ (1400x1050) TFT color / Active Matrix	(in hidden Service Partition) ADDITIONAL PRELOADED
Graphics controller	S3 Savage IX8+ / AGP 2X / 8MB SGRAM / 64-bit path to memory	SOFTWARE
Graphics - external	External SVGA to various modes such as 16.7 million colors, 85Hz, 1600x1200	Office 2000 SB models (SB)
Keyboard	Pitch: 19mm / stroke: 2.7mm / ThinkPad Button / palm rest /	- Microsoft Office 2000 Small
ThinkLight™	TrackPoint®, "Press-to-Select," Internet Scroll Bar Illuminates the keyboard to improve visibility in low-light conditions	Business Office 2000 Small Business CD
UltraPort™	UltraPort connector on top of display for options such as digital Ultraport Camera	Office XP SB models (XP)
Dimensions ³ Approximate weight ² Case material Battery - type Battery - life ¹⁰	12" x 9.8" x 1.3"; 304mm x 250mm x 33.1mm with CD or DVD drive and battery: 900MHz: 5.3 lb; 1GHz: 5.6 lb Titanium Composite in the top and bottom covers for enhanced strength ⁴ Lithium Ion 6-cell / intelligent / supports unique 2nd battery in Ultrabay 2000 3.2hr	- Microsoft Office XP Small Business ²⁸ (Word, Excel, Outlook, Publisher, Small Business Tools) \$Office XP Small Business CD
Architecture	Intel 440BX AGPset / Intel PIIX4M (EIDE with Ultra DMA/33 or PIO Mode 4 support,	Common to all models
Port replicator Docking Station PC Card Std slots Ports Other features	ISA Bridge, USB) / TI® PCI1450 for CardBus / AGP 2X for graphics / PCI 2.1 / 32-bit / 33MHz (EIDE, CardBus, audio, USB, ext expansion) / PC97338 Super I/O / ISA (diskette, serial, parallel, infrared, ext exp) Optional ThinkPad Port Replicator Optional ThinkPad Dock (includes Ultrabay 2000 and half-size PCI slot) 2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 USB: One (Version 1.1) / Serial: one 9 pin / Parallel: one / keyboard / mouse / external DB-15 monitor / infrared (4Mbps) / RJ-11 (modem) / RJ-45 (ethernet) 72 watt AC Adapter	ThinkPad Utilities ThinkPad Assistant™ ConfigSafe® IBM Update Connector™.15 Easy Keys Utility Access ThinkPad II PC-Doctor™ Mediamatics™ DVD (DVD models) License for Lotus® SmartSuite®
Docking Station PC Card Std slots Ports	PCI 2.1 / 32-bit / 33MHz (EIDE, CardBus, audio, USB, ext expansion) / PC97338 Super I/O / ISA (diskette, serial, parallel, infrared, ext exp) Optional ThinkPad Port Replicator Optional ThinkPad Dock (includes Ultrabay 2000 and half-size PCI slot) 2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 USB: One (Version 1.1) / Serial: one 9 pin / Parallel: one / keyboard / mouse / external DB-15 monitor / infrared (4Mbps) / RJ-11 (modem) / RJ-45 (ethernet) 72 watt AC Adapter S-video out / one industry standard connector / full MPEG-2 support / optional cable	ThinkPad Assistant™ ConfigSafe® IBM Update Connector™.15 Easy Keys Utility Access ThinkPad II PC-Doctor™ Mediamatics™ DVD (DVD models) License for Lotus® SmartSuite® Millennium and Lotus Notes® Client
Docking Station PC Card Std slots Ports Other features	PCI 2.1 / 32-bit / 33MHz (EIDE, CardBus, audio, USB, ext expansion) / PC97338 Super I/O / ISA (diskette, serial, parallel, infrared, ext exp) Optional ThinkPad Port Replicator Optional ThinkPad Dock (includes Ultrabay 2000 and half-size PCI slot) 2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 USB: One (Version 1.1) / Serial: one 9 pin / Parallel: one / keyboard / mouse / external DB-15 monitor / infrared (4Mbps) / RJ-11 (modem) / RJ-45 (ethernet) 72 watt AC Adapter S-video out / one industry standard connector / full MPEG-2 support / optional cable for S-video to composite conversion available Communications Bay with Mini PCI IIIb slot / customer accessible Some models: 56K6 V.90 Mini PCI modem card / Lucent® chip set Some models: Intel PRO/100 SP Mobile Combo Adapter / Mini PCI ethernet with	ThinkPad Assistant™ ConfigSafe® IBM Update Connector™.15 Easy Keys Utility Access ThinkPad II PC-Doctor™ Mediamatics™ DVD (DVD models) License for Lotus® SmartSuite®
Docking Station PC Card Std slots Ports Other features Video out Communicatns Bay Modem	PCI 2.1 / 32-bit / 33MHz (EIDE, CardBus, audio, USB, ext expansion) / PC97338 Super I/O / ISA (diskette, serial, parallel, infrared, ext exp) Optional ThinkPad Port Replicator Optional ThinkPad Dock (includes Ultrabay 2000 and half-size PCI slot) 2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 USB: One (Version 1.1) / Serial: one 9 pin / Parallel: one / keyboard / mouse / external DB-15 monitor / infrared (4Mbps) / RJ-11 (modem) / RJ-45 (ethernet) 72 watt AC Adapter S-video out / one industry standard connector / full MPEG-2 support / optional cable for S-video to composite conversion available Communications Bay with Mini PCI IIIb slot / customer accessible Some models: 56K ⁶ V.90 Mini PCI modem card / Lucent® chip set Some models: Intel PRO/100 SP Mobile Combo Adapter / Mini PCI ethernet with 56K modem / Intel 82550EY ethernet chipset / Lucent modem chipset PCI audio / SoundBlaster Pro™ support / CS4624 with CS4297A AC97 codec / stereo speakers / 1 watt / volume up, down, mute buttons / internal microphone /	ThinkPad Assistant™ ConfigSafe® IBM Update Connector™.15 Easy Keys Utility Access ThinkPad II PC-Doctor™ Mediamatics™ DVD (DVD models) License for Lotus® SmartSuite® Millennium and Lotus Notes® Client 5.0 The right bay (Ultrabay 2000) supports: optional or standard CD-ROM optional or standard DVD drive optional Zip drive optional second battery optional SuperDisk (LS-120) drive
Docking Station PC Card Std slots Ports Other features Video out Communicatns Bay Modem Ethernet/modem	PCI 2.1 / 32-bit / 33MHz (EIDE, CardBus, audio, USB, ext expansion) / PC97338 Super I/O / ISA (diskette, serial, parallel, infrared, ext exp) Optional ThinkPad Port Replicator Optional ThinkPad Dock (includes Ultrabay 2000 and half-size PCI slot) 2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 USB: One (Version 1.1) / Serial: one 9 pin / Parallel: one / keyboard / mouse / external DB-15 monitor / infrared (4Mbps) / RJ-11 (modem) / RJ-45 (ethernet) 72 watt AC Adapter S-video out / one industry standard connector / full MPEG-2 support / optional cable for S-video to composite conversion available Communications Bay with Mini PCI IIIb slot / customer accessible Some models: Intel PRO/100 SP Mobile Combo Adapter / Mini PCI ethernet with 56K modem / Intel 82550EY ethernet chipset / Lucent modem chipset PCI audio / SoundBlaster Pro™ support / CS4624 with CS4297A AC97 codec /	ThinkPad Assistant™ ConfigSafe® IBM Update Connector™.15 Easy Keys Utility Access ThinkPad II PC-Doctor™ Mediamatics™ DVD (DVD models) License for Lotus® SmartSuite® Millennium and Lotus Notes® Client 5.0 The right bay (Ultrabay 2000) supports: optional or standard CD-ROM optional or standard DVD drive optional Zip drive optional SuperDisk (LS-120) drive optional SuperDisk (LS-120) drive
Docking Station PC Card Std slots Ports Other features Video out Communicatns Bay Modem Ethernet/modem Audio support	PCI 2.1 / 32-bit / 33MHz (EIDE, CardBus, audio, USB, ext expansion) / PC97338 Super I/O / ISA (diskette, serial, parallel, infrared, ext exp) Optional ThinkPad Port Replicator Optional ThinkPad Dock (includes Ultrabay 2000 and half-size PCI slot) 2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 USB: One (Version 1.1) / Serial: one 9 pin / Parallel: one / keyboard / mouse / external DB-15 monitor / infrared (4Mbps) / RJ-11 (modem) / RJ-45 (ethernet) 72 watt AC Adapter S-video out / one industry standard connector / full MPEG-2 support / optional cable for S-video to composite conversion available Communications Bay with Mini PCI IIIb slot / customer accessible Some models: 56K ⁶ V.90 Mini PCI modem card / Lucent® chip set Some models: Intel PRO/100 SP Mobile Combo Adapter / Mini PCI ethernet with 56K modem / Intel 82550EY ethernet chipset / Lucent modem chipset PCI audio / SoundBlaster Pro™ support / CS4624 with CS4297A AC97 codec / stereo speakers / 1 watt / volume up, down, mute buttons / internal microphone / input jack (3.5 mm) / output jack (3.5 mm) / line in jack	ThinkPad Assistant™ ConfigSafe® IBM Update Connector™.15 Easy Keys Utility Access ThinkPad II PC-Doctor™ Mediamatics™ DVD (DVD models) License for Lotus® SmartSuite® Millennium and Lotus Notes® Client 5.0 The right bay (Ultrabay 2000) supports: optional or standard CD-ROM optional or standard DVD drive optional Zip drive optional second battery optional SuperDisk (LS-120) drive

Ultrabay 2000 Li-Ion battery 02K6646 ThinkPad 72W AC Adapter Multiple Li-Ion/NiMH Battery Charger 02K6699 02K6719 ThinkPad Port Replicator 02K8667 ThinkPad Dock
ThinkPad Monitor Stand 2001 263120U 22P5265 Portable Drive Bay 2000 19K4480 UltraPort Camera II 04P6135 IBM Ultraport Compact Flash Reader UltraPort Digital Array Microphone 19K4510 09N4178 RCA video conversion cable 271 0530 Acset ID RF Adapter
IBM IEEE 1394 CardBus Card
10/100 Enet /56K Mini PCI (3Com)
Intel Pro/100 SP Mini PCI 08K6064 19K5679 09N9774 06P3801 ServicePac® 3yr IOR 9x5 NBD 30L9197

PC 99-compliant
CIM and DMI 2.0 compliant
Wired for Management 2.0
Local and remote asset manage
ment via the IBM Universal
Manageability solutions
IBM ImageUltra Services available
IBM Rapid Restore PC available to
protect software image and data
Asset ID™ wireless RF technology
(via installing into disk cover)
Personalized Web-based support
International Warranty Service¹⁷
24 hour x 7 day¹8 toll-free hardware
support during the warranty

Type-model	Processor	Speed	Memory	Screen	Disk	Optical	Mini PCI	Security Chip	Communications Daughter Card	Preload	Available
2647-2KU	Pentium® III-M	866MHz ¹	128MB	13.3" XGA	15GB	CD-ROM	Modem		Ethernet V	/indows® 98 SE	Jul 2001
2647-6KU	Pentium III-M	866MHz	128MB	13.3" XGA	15GB	CD-ROM	Modem		Ethernet V	/indows 2000	Jul 2001
2647-5KU	Pentium III-M	1.13GHz	128MB	14.1" SXGA+	48GB	DVD-ROM	Modem		Ethernet V	/indows 98 SE	Jul 2001
2647-9KU	Pentium III-M	1.13GHz	128MB	14.1" SXGA+	48GB	DVD-ROM	Modem		Ethernet V	/indows 2000	Jul 2001
2647-5LU	Pentium III-M	1.13GHz	128MB	14.1" SXGA+	48GB	DVD-ROM	802.11b/mod	Yes	Ethernet V	/indows 98 SE	Jul 2001
2647-9LU	Pentium III-M	1.13GHz	128MB	14.1" SXGA+	48GB	DVD-ROM	802.11b/mod		Ethernet V	/indows 2000	Jul 2001
2647-HLU	Pentium III-M	1.13GHz	128MB	14.1" SXGA+	48GB	DVD-ROM	802.11b/mod	Yes	Ethernet 2	000, XP Sm Bus	Jul 2001

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Positioning	The perfect balance of performance and portability	SOFTWARE ^{14, 27}
Processor	Mobile Intel [®] Pentium [®] III Processor-M 866MHz¹ or 1.13GHz¹ with enhanced Intel SpeedStep™ technology and 133MHz front side bus	Windows 98 models
L2 cache	512KB / on die (at processor speed) / ECC	- Microsoft® Windows® 98 Second
Memory	128MB standard / 1GB maximum ⁷ / SDRAM / non-parity / 133MHz / PC 133 /	Edition ¹³
orriory	3.3v / two 144-pin SO-DIMM sockets / 128MB in one socket / one socket available	♦ Disk-to-Disk Recovery
Diskette drive	3.5" 1.44MB (use in Ultrabay 2000 or attach ext with optional cable via parallel port)	(in hidden Service Partition)
CD-ROM	Some: CD-ROM / 24X-10X ⁹ speed / bootable / removable from Ultrabay™ 2000	Windows 2000 models
DVD-ROM	Some: DVD-ROM / 8X-3.3X ⁹ speed / bootable / removable from Ultrabay 2000	- Windows 2000 Professional
Ultrabay 2000	Modular bay for interchangeable devices	- PC Card Wizard
Disk	15GB [®] (4200 rpm) or 48GB (5400 rpm) / upgradeable / S.M.A.R.T. /	♦ Disk-to-Disk Recovery to
	supports 2nd disk with optional HDD Adapter in Ultrabay 2000	Windows 2000 or Windows NT 4.0
Display	Some: 13.3" (337.8mm) XGA (1024x768) TFT color / Active Matrix	(in hidden Service Partition)
	Some: 14.1" (358.1mm) SXGA+ (1400x1050) TFT color / Active Matrix	INCLUDED SOFTWARE ¹⁴ (all)
	All: Easy-open cover to unlatch and open with one hand	-
Graphics controller		Preloaded
	External SVGA to various modes such as 16.7 million colors, 85Hz, 1600x1200	ThinkPad Assistant™ Access ThinkPad II
Keyboard	85-key / ThinkPad Button / palm rest / TrackPoint®, "Press-to-Select,"	ThinkPad Utilities
The ball of the ATM	Internet Scroll Bar / pitch: 19mm; stroke: 2.7mm	ConfigSafe®
ThinkLight™ UltraPort™	Illuminates the keyboard to improve visibility in low-light conditions UltraPort connector on top of display for options such as digital UltraPort Camera	Access Connections (W2000
		wireless models only)
Dimensions ³	xKx: 12.0" x 9.8" x 1.3"; xLx: 12.1" x 9.8" x 1.3" With antical drive and bettern 2/5/5/5/4 E 4 lba: E/5/5/6/5/4 E 4 E lba: E/5/5/6/5/4 E 5 E lba: E/5/5/6/5/4 E 5 E lba: E/5/6/6/5/4 E 5 E lba: E/5/6/6/6/5/4 E 5 E lba: E/5/6/6/6/6/6 E 5 E lba: E/5/6/6/6/6 E 5 E lba: E/5/6/6/6 E 5 E lba: E/5/6/6 E 5 E lba: E/5/6 E 5 E lba: E/5/6/6 E 5 E E lba: E/5/6/6 E 5 E E lba: E/5/6/6 E 5 E E lba: E/5/6/6 E 5 E E E E E E E E E E E E E E E E E	PC-Doctor™ PC-Doctor™
Approximate weight ² Case material	With optical drive and battery: 2Kx/6Kx: 5.4 lbs; 5Kx/9Kx: 5.45 lbs; 5Lx/9Lx: 5.5 lbs Titanium Composite in the top and bottom covers for enhanced strength ⁴	 Mediamatics™ DVD (DVD models)
Battery - type	Lithium Ion 6-cell / 10.8V 3.6AH / intelligent / supports unique 2nd battery in Ultrabay	Downloadable
Battery - life ¹⁰	xKx: 3.0 hrs; xLx: 2.8 hrs	IBM Backup and Restore
AC adapter	Universal 72 watt / 16VDC 4.5A	IBM Data Transfer Universal Manageability Services
Architecture	Intel 830MP chipset / 82830MP Graphics Memory Controller Hub (GMCH-M) /	IBM Update Connector™,15
	82801CAM ICH3-M I/O Controller Hub (ATA-100/66 EIDE, PCI bus, Low Pin Count	Client Security Software 2.0
	(LPC) interface, USB) / E82802AC Firmwave Hub /	(models with security chip)
	PCI bus 2.2 32-bit, 33MHz (TI® PCI1420 CardBus, Mini PCI, external expansion) /	License
Doolsing Ctation	LPC bus 33Mhz (PC87392 Super I/O for diskette, serial, parallel, infrared) Optional ThinkPad Dock (includes Ultrabay 2000 and half-size PCI slot)	- Lotus® SmartSuite® Millennium and
Docking Station PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / no Zoomed Video	Lotus Notes® Client 5.0
Ports	Two USB (Version 1.1) / 9-pin serial / parallel / keyboard / mouse /	Office XP Small Business models
1 0110	external DB-15 monitor / infrared (4Mbps) / RJ-11 (modem) / RJ-45 (ethernet)	- Microsoft Office XP Small Business
Video out	S-video out / one industry standard connector / full MPEG-2 support / optional cable	(Word, Excel, Outlook, Publisher,
Video out	for S-video to composite conversion available	Small Business Tools)
Mini PCI	Mini PCI IIIb slot / customer accessible	♦Office XP Small Business CD
CDC	One Communications Daughter Card socket (used by ethernet)	
Modem	xKx: Mini PCI 56K ⁶ V.90 modem card / Lucent [®] chipset	The Ultrabay 2000 plus supports:
802.11b/modem	xLx: Mini PCI 802.11b wireless, Intersil® Prism 2.5 chipset, diversity antennas in display cover, Wi-Fi-certified / 56K® V.90 modem combo, Lucent® chipset	optional or standard CD-ROM
Ethernet	10/100 ethernet on Communications Daughter Card / Intel® 82562ETchipset	optional or standard DVD drive
Audio support	Soft audio / ICH AC97 controller / SoundBlaster compatible / CS4299 AC97 codec /	optional Zip drive
	stereo speakers / 1 watt / volume up, down, mute buttons / internal microphone /	optional second batteryoptional SuperDisk drive
	microphone input jack (3.5 mm) / headphone jack (3.5 mm) / line in jack (3.5 mm)	optional CD-RW
Security	Power-on password / hard disk password / supervisor password / security keyhole	optional CD-RW/DVD combo
	xLx: Embedded Security Chip / authenticates and encrypts data communications / stores encrypted passwords in hardware	optional HDD adapter (for 2nd disk)
Limitedurament + 10		optional travel bezel
Limited warranty^,12	3 year - EasyServ™.19 onsite pickup and delivery courier service	PC 99-compliant
		CIM and DMI 2.0-compliant
	133MHz NP SDRAM 19K4650 ThinkPad T Series Li-Ion Battery 02K6649	Wired for Management 2.0
	133MHz NP SDRAM 19K4652 Ultrabay 2000 Li-lon battery 02K6646	Local and remote asset manage
	133MHz NP SDRAM 19K4654 ThinkPad 72W AC Adapter 02K6699 133MHz NP SDRAM 19K4656 ThinkPad 72W DC Auto/Air Adapter 10K3820	ment via the IBM Universal
SuperDisk (LS-240		Manageability solutions IBM ImageUltra Services available
Zip 250MB Ultraba	av 2000 Drive 00N8253 ThinkPad Port Replicator 02K8667	IBM Rapid Restore PC available to
24X-10X CD-ROM	l Ultrabay 2000 Drive 05K9233 ThinkPad Dock 263120U	protect software image and data
8X/4X/24X CD-RV		Asset ID™ wireless RF technology
8X-2X DVD Ultrab	ay 2000 Drive 27L3448 Portable Drive Bay 2000 (accepts Ultrabay	(via installing into disk cover)
CD-RW/DVD Com Travel Bezel for UI		Personalized Web-based support
	oter for Ultrabay 2000 08K6068 UltraPort Digital Array Microphone 09N4178	International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free hardware
15GB Hard Disk D		support during the warranty
30GB Hard Disk D	prive 08K9593 T Series FDD External Cable Kit 27L0524	Support daining the warranty
48GB Hard Disk D		
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Type-model Proce	Speed ssor GHz Memory	Screen Disk	Optical	Mini PCI Comm Bay	Securit CDC Chip				
2647-HNU Pentiur 2647-8QU Pentiur 2647-8MU Pentiur 2647-8NU Pentiur 2647-9NU Pentiur 2647-9NU Pentiur	n° III-M 1.13 128MB 1 n III-M 1.2 128MB 1 n III-M 1.13 128MB 1 n III-M 1.13 128MB 1 n III-M 1.13 128MB 1 n III-M 1.2 128MB 1 n III-M 1.2 128MB 1 n III-M 1.13 128MB 1 n III-M 1.13 128MB 1 n III-M 1.13 128MB 1 n III-M 1.2 128MB 1	4.1" SXGA+ 48GB 4.1" XGA 30GB 4.1" XGA 30GB 4.1" XGA 30GB 4.1" XGA 30GB 4.1" SXGA+ 48GB	CD-RW DVD-ROM DVD-ROM DVD-ROM DVD-ROM CD-RW	Modem 11b Wi-Fi/mod Modem 11b Wi-Fi/mod	Ethernet Yes Ethernet Ethernet Yes Ethernet Yes Ethernet Yes Ethernet Ethernet Ethernet Yes	XP Pro Office XP SB ²⁸ Oct 2001 XP Pro Office XP SB Oct 2001 XP Pro Windows® 2000 W G Ct 2001 XP Pro W G Oct 2001 XP Pro W G Ct 2001 XP Pro Oct 2001 XP Pro Oct 2001 XP Pro Oct 2001 Windows 2000 W G Oct 2001 Windows 2000 W Oct 2001 Windows 2000 Oct 2001 Windows 2000 Oct 2001 Windows 2000 Oct 2001 Windows 2000 Oct 2001			
Positioning Processor L2 cache Memory	The perfect balance of Mobile Intel® Pentium enhanced Intel SpeedS 512KB / on die (at proc 128MB standard / 1GB 3.3v / two 144-pin SO-I	performance and po [®] III Processor-M 1. Step™ technology¹ and essor speed) / ECC maximum² / SDRAI	ortability; two . 13 or 1.2GH nd 133MHz f ; M / non-parit	Hz with frontside bus ty / 133MHz / PC		SOFTWARE ¹⁴ Windows XP Pro models - Microsoft® Windows® XP Professional Disk-to-Disk Recovery			
Diskette drive CD-RW DVD-ROM Ultrabay 2000 Disk	3.5" 1.44MB (use in eith Some: CD-RW / 8X/4X Some: DVD-ROM / 8X. One modular bay for int 30GB8 (4200 rpm) or 4t supports 2nd disk with Some: 14.1" (358.1mm)	/24X Max ⁹ / remova 3.3X ⁹ speed / removerchangeable device B GB (5400 rpm) / upoptional HDD Adapt	ble from Ultr vable from U ces (right side ogradable / S cer in Ultraba	abay 2000 Iltrabay 2000 e) / Ultrabay Plus S.M.A.R.T. / ay 2000		(in hidden Service Partition) Windows 2000 models - Microsoft Windows 2000 Professional¹³ ⇒ Disk-to-Disk Recovery to Windows 2000 or Windows NT 4.0 (in hidden Service Partition)			
Display	Some: 14.1" (358.1mm All: Easy-open cove	n) SXGA+ (1400x10 er to unlatch and ope)50) TFT col en with one h	or / Active Matrix nand (two latches		INCLUDED SOFTWARE ¹⁴ (all)			
	S3 Graphics® SuperSa External SVGA to vario 85-key / ThinkPad Butt Internet Scroll Bar ¹³ / pi Illuminates the keyboar	us modes such as 1 on / palm rest / Trac tch: 19mm; stroke: 2	16.7 million o kPoint®, "Pre 2.7mm	ess-to-Select,"	0x1200	Preloaded • Access ThinkPad - Access Connections - Access Help • ConfigSafe® • Mediamatics™ DVD (DVD models) • PC-Doctor™ • SystemSoft CardWizard • ThinkPad Utilities • Veritas RecordNOW (CD-RW mod) Downloadable • IBM Rapid Restore™ PC • IBM Data Transfer • Universal Manageability Services™ • IBM Update Connector™. • Client Security Software (models with security chip) License - Lotus® SmartSuite® Millennium and Lotus Notes® Client 5.0 Office XP Small Business models only • Microsoft Office XP Small Business Tools) chypolisher, Small Business CD Ultrabay Plus integrated modular bay supports most Ultrabay 2000 devices including CD-RW/DVD Combo drive, diskette drive, or Zip drive; the optional Ultrabay Plus			
UltraPort™ Dimensions³ Approximate weight² Case material Battery - type Battery - life¹ AC adapter Architecture Docking Station PC Card Std slots Ports	UltraPort connector on Wi-Fi ³² models: 12.1" x with optical drive and b Titanium Composite i Lithium lon 6-cell / intel 3 hrs 11 minutes to 3 hr Universal 72 watt / 16V Intel 830MP chipset / 8 82801 CAM ICH3-M I/C (LPC) interface, USB) / PCI bus 2.2 32-bit, 33M LPC bus 33MHz (PC87 Optional ThinkPad Do 2 Type I, 2 Type II, or 1 Two USB (Version 1.1) external DB-15 monitor	9.8" x 1.3"; Others attery: Gxx/8xx/4xx n the top and bottom ligent / supports unit s 30 minutes depen DC 4.5A 2830MP Graphics N Controller Hub (AT E82802AC Firmwa IHz (TI® PC11420 Ci 392 Super I/O for di Ck (includes Ultraba Type III / CardBus / 9-pin serial / paral	:12.0" x 9.8" : 5.2 lbs; Hx: n covers for eque 2nd batte iding on mod Memory Con A-100/66 El re Hub / ardBus, Mini skette, seria ly 2000 and l 32-bit / PCM	x 1.3"; x/9xx/5xx: 5.5 lbs enhanced strengt ery in Ultrabay 200 del troller Hub (GMC DE, PCI bus, Lov i PCI, external ex Il, parallel, infrare half-size PCI slot ICIA 2.1 rd / mouse /	H-M) / v Pin Count pansion) / d)				
Video out Mini PCI CDC Modem 11b Wi-Fi ³² /modem Ethernet Audio support	S-video out port (TV ou One Mini PCI type III sl One Communications I Some: Mini PCI 56K ⁶ V Some: Mini PCI 11b W display cover, W Lucent® chipset Some: 10/100 ethernet Soft audio / ICH AC97 of stereo speakers / 1 wat	t) / one industry star of (Communications) Daughter Card (CDC .90 (V.92-designed) -Fi ³² wireless, Inters fi-Fi-certified / 56K ⁶ V on Communications controller / SoundBla t / volume up, down	ndard conne s Bay) / custo C) socket / cu 29) modem ca sil® Prism 2.5 V.90 (V.92-do s Daughter C aster-compa , mute butto	ctor omer upgradable ustomer accessib ard / Lucent® chip chipset, diversity esigned ²⁹⁾ moder Card / Intel® 82562 tible / CS4299 At ns / internal micro	ole poset v antennas in n combo, 2ETchipset C97 codec / pphone /				
Security Security chip Limited warranty ¹²	microphone input jack Power-on password / h Some: IBM Embedded authentication / 3 years/1 year battery	ard disk password / I Security Subsyst local file encryption	supervisor p em ³³ / hardv / enhances	oasśword / secur ware key storage VPN security ¹⁶	ity keyhóle / multi-factor	Device Carrier adds potential functionality by supporting the Ultrabay Plus Numeric Keypad and Cradle for the WorkPad® c500 Series			
64 MB SO DIMM 128 MB SO DIMM 256 MB SO DIMM 512 MB SO DIMM SuperDisk (LS-240 Zip 250MB Ultraba 24X-10X CD-ROM 8X/4X/24X Max CI 8X-3X DVD Ultrab CD-RW/DVD Com Travel Bezel for UI Second HDD Adag IBM ThinkPad Ultr IBM ThinkPad Ultr	133MHz NP SDRAM 133MHz NP SDRAM 133MHz NP SDRAM 133MHz NP SDRAM 133MHz NP SDRAM 0) UltraBay 2000 1y 2000 Drive 1 Ultrabay 2000 Drive 2000 Drive bo Ultrabay 2000 1trabay 2000 1trabay 2000 1trabay 2000 1trabay 2000 2ter for Ultrabay 2000	19K4650 ThinkP: 19K4654 ThinkP: 19K4656 ThinkP: 08K9616 ThinkP: 05K9233 ThinkP: 05K9233 ThinkP: 05K9233 ThinkP: 05K9269 ThinkP: 08K9572 08K6070 Bluetoc 08K6068 22P5737 Service 22P5738 Service 22P5733 40GB H	ad T20 Series y 2000 Li-lor ad 72W AC / ad 72W DC / e Li-lon/NiMe ad Port Repl ad Dock ad Monitor S e Drive Bay 000 media ar oth™ UltraPo s FDD Exter ePac ^{®, 22} 2yr I ePac 3yr IOF eS Hard Disk	es Li-Ion Battery h battery Adapter Auto/Air Adapter H Battery Charger icator tand 2001 2000 (accepts UI nd storage device rt Module from IB nal Cable Kit IOR 9x5 NBD	02K6649 02K6646 02K6699 10K3820 02K6719 02K8667 263120U 22P5265 trabay es) 19K4480 M 09N9811 27L0524 30L9197 om) 08K9816	PC 99-compliant CIM and DMI 2.0-compliant Wired for Management 2.0 Local and remote asset manage ment via the IBM Universal Manageability solutions IBM ImageUltra Services available IBM Rapid Restore PC available to protect software image and data Asset ID™ wireless RF technology (via installing into disk cover) International Warranty Service¹7 24 hour x 7 day¹8 toll-free hardware support during the warranty¹²			

Type-model Proce	Speed essor GHz Memory Screen	Disk Optical	Mini PCI Comm Bay	Securit CDC Chip				
2647-6GU Pentiur 2647-2GU Pentiur 2647-5RU Pentiur 2647-9RU Pentiur 2647-9SU Pentiur 2647-9SU Pentiur	nIII-M 1.0 128MB 14.1" XGA nIII-M 1.0 256MB 14.1" XGA nIII-M 1.0 128MB 14.1" XGA	60GB DVD/CD-RW 60GB DVD/CD-RW 60GB DVD/CD-RW	Modem Modem Modem Modem Modem 11b Wi-Fi ³² /mod 11b Wi-Fi/mod	Ethernet Ethernet Ethernet Ethernet Ethernet Yes Ethernet Yes Ethernet Yes	Windows2000 Jan 2002 XP Pro Jan 2002			
Positioning Processor L2 cache Memory	The perfect balance of performance Mobile Intel® Pentium® III Process enhanced Intel SpeedStep™ techno 512KB / on die (at processor speed) 128MB or 256MB standard / 1GB n 3.3v / two 144-pin SO-DIMM socke	o r-M 1.0 or 1.2GHz llogy¹ and 133MHz fro) / ECC nax² / SDRAM / non-	with ontside bus -parity / 133MHz /	PC 133 / et available	SOFTWARE ¹⁴ Windows XP Pro models - Microsoft® Windows® XP Professional Disk-to-Disk Recovery (in hidden Service Partition)			
Diskette drive CD-ROM DVD-ROM DVD-ROM/CD-RW Ultrabay 2000 Disk	3.5" 1.44MB (use in either Ultrabay Some: CD-ROM / 24X-10X9 / remov Some: DVD-ROM / 8X-3.3X9 speed Some: DVD-ROM/CD-RW / 8X/8X/One modular bay for interchangeab 20GB9 (4200 rpm) or 60GB (5400 rps supports 2nd disk with optional HDD	vable from Ultrabay 2 d / bootable / remova /24X/8X ²¹ speed / rer ble devices (right side bm) / upgradable / S.I	.000 ble from Ultrabay movable from Ultr. e) / Ultrabay Plus - M.A.R.T. /	2000 abay 2000	Windows 2000 models - Microsoft Windows 2000 Professional ¹³ • ConfigSafe [®] ⇒ Disk-to-Disk Recovery to Windows 2000 or Windows NT 4.0 (in hidden Service Partition)			
Display	Some: 14.1" (358.1mm) XGA (1024 Some: 14.1" (358.1mm) SXGA+ (14.1) Easy-open cover to unlatch	400x1050) TFT colo	r / Active Matrix		INCLUDED SOFTWARE ¹⁴ (all)			
Graphics - external Keyboard ThinkLight™	S3 Graphics® SuperSavage / IXC16 External SVGA to various modes st 85-key / ThinkPad Button / palm res Internet Scroll Bar ¹³ / pitch: 19mm; s Illuminates the keyboard to improve	uch as 16.7 million c st / TrackPoint®, "Pre stroke: 2.7mm (stand e visibility in low-light	olors, 85Hz, 1600 ess-to-Select," dard-size keys) conditions		Access ThinkPad Access Connections Access Help Access Support Mediamatics™ DVD (DVD models) PC-Doctor™ ThinkPad Utilities Veritas RecordNOW (CD-RW mod) IBM Software Installer IBM Update Connector™.15 Downloadable IBM Rapid Restore™ PC IBM Data Transfer Universal Manageability Services™ Client Security Software (models with security chip) License Lotus® SmartSuite® Millennium and Lotus Notes® Client 5.0 Office XP Small Business models only Microsoft Office XP Small Business²8 (Word, Excel, Outlook, Publisher, Small Business CD			
UltraPort™ Dimensions³ Approximateweight² Case material Battery - type Battery - life¹⁰	UltraPort connector on top of displa Wi-Fi ² models: 12.1" x 9.8" x 1.3"; with optical drive and battery: 2Rx/6 (2.36kg); 5Rx/9Rx: 5.58 lbs (2.53kg). Titanium Composite in the top and Lithium lon 6-cell / intelligent / supp 3.1 hrs to 3.5 hrs depending on models.	Others: 12.0" x 9.8") 5Rx: 5.05 lbs (2.29kg); 5Sx/9Sx/HSx: 5.62 d bottom covers for elects unique 2nd batte	(1.3";); 6Gx/2Tx/2Gx: 5 2 lbs (2.55kg) enhanced strength	5.19 lbs				
Architecture Docking Station PC Card Std slots Ports	Intel 830MP chipset / 82830MP Gra 82801CAM ICH3-M I/O Controller I- (LPC) interface, USB) / E82802AC F PCI bus 2.2 32-bit, 33MHz (TI® PCI LPC bus 33MHz (PC87392 Super I/ Optional ThinkPad Dock (includes 2 Type I, 2 Type II, or 1 Type III / Ca Two USB (Version 1.1) / 9-pin seria	Hub (ATA-100/66 EII Firmware Hub / 1420 CardBus, Mini /O for diskette, seria c Ultrabay 2000 and r ardBus 32-bit / PCM al / parallel / keyboar	DE, PCI bus, Low PCI, external exp I, parallel, infrared nalf-size PCI slot) CIA 2.1 d / mouse /	Pin Count pansion) / d)				
Video out Mini PCI CDC Modem	external DB-15 monitor / infrared (4 S-video out port (TV out) / one indu- One Mini PCI type III slot (Commun One Communications Daughter Ca Some: Mini PCI 56K ⁶ V.90 (V.92-de	stry standard conne- nications Bay) / custourd (CDC) socket / cu esigned ²⁹) modem ca	ctor omer upgradable istomer accessibl ard / Lucent® chips	e set				
Ethernet Audio support	Some: Mini PCI 11b Wi-Fi ³² wireless display cover, Wi-Fi-certified 10/100 ethernet on Communication Soft audio / ICH AC97 controller / S stereo speakers / 1 watt / volume up	Ultrabay Plus integrated modular bay supports most Ultrabay 2000 devices including CD-RW/DVD Combo drive, diskette drive, or Zip drive; the optional Ultrabay Plus						
Security Security chip	microphone input jack (3.5 mm) / he Power-on password / hard disk pas Some: IBM Embedded Security S authentication / local file end	ssword / supervisor p Subsystem³³ / hardv cryption / enhances \	pasśword / sécurit vare key storage / VPN security¹ ⁶	y keyhole multi-factor	Device Carrier adds potential functionality by supporting the Ultrabay Plus Numeric Keypad and Cradle for the WorkPad® c500 Series			
128 MB SO DIMM 256 MB SO DIMM 512 MB SO DIMM SuperDisk (LS-240 Zip 250MB Ultraba 24X-10X CD-ROM 8X/4X/24X Max CI Ultralight 8X Max I CD-RW/DVD Com Travel Bezel for Ul Second HDD Adar IBM ThinkPad Ultr IBM ThinkPad Ultr ThinkPad Asset ID	133MHz CL3 NP SDRAM 19K4652 133MHz CL3 NP SDRAM 19K4654 133MHz CL3 NP SDRAM 19K4656 0) UltraBay 2000 08K9616 ay 2000 Drive 05K9233 1 Ultrabay 2000 22P9101 DvD Ultrabay 2000 22P9102 1bo III Ultrabay 2000 22P6980 1trabay 2000 08K6070 0ter for Ultrabay 2000 08K6068 abay Plus Carrier 22P5737 abay Plus c500 Cradle 22P5738 r Plus Numeric Keypad 22P7330	ThinkPad T20 Seri Ultrabay 2000 Li-lo ThinkPad 72W AC ThinkPad 72W DC Multiple Li-lon/NiM ThinkPad Port Rep ThinkPad Dock ThinkPad Monitor S Portable Drive Bay	es Li-Ion Battery n battery Adapter Auto Adapter H Battery Charger licator Stand 2001 2000 (accepts UI nd storage device ort Module from IB rnal Cable Kit IOR 9x5 NBD R 9x5 NBD Smm (4200 rpm) k 9.5mm (5400 rpr	02K6649 02K6646 02K6699 10K3820 r 02K6719 02K8667 263120U 22P5265 Itrabay es) 19K4480 8M 09N9811 27L0524 30L9197 08K9686	Universal 72 watt AC adapter PC 99-compliant CIM and DMI 2.0-compliant PXE 2.0-compliant Wired for Management 2.0 Local and remote asset manage ment via the IBM Universal Manageability solutions IBM ImageUltra™ Services available IBM Rapid Restore PC available to protect software image and data Asset ID™ wireless RF technology (via installing into disk cover) International Warranty Service¹ 24 hour x 7 day¹ 8 toll-free hardware support during the warranty¹ 2			

Type-model	Processor	Speed GHz Memory	Screen	Disk	Optical	Mini PCI Comm Bav	CDC	Security Chip		Vorkhorse or Global (model	
. , poouo.					0 0 11 10 11			٠ه	1.0.000		
2647-GGU F	Pentium® III-M	1 1.0 256ME	14.1" XGA	20GB8	DVD/CD-RW	11b Wi-Fi32/mod	Ethernet	No	Windows®XP I	Pro No A	Apr 2002

This educational model of the ThinkPad T23 notebook must be sold only to qualified education customers. Qualified institution/customer is a public or private K-12 (or higher) accredited school organized and operated exclusively for educational purposes for use by Qualified Students and/or Qualified Teachers.

This model for education is for sale direct from IBM or through an Authorized Education Reseller. The model or models for education are not available for resale to any other organization or individual.

Positioning	The perfect balance of performance and portability; two-spindle system	COETWADE 14
Processor	Mobile Intel® Pentium® III Processor-M 1.0GHz with	SOFTWARE ¹⁴ Windows XP Pro models
L2 cache	enhanced Intel SpeedStep™ technology¹ and 133MHz frontside bus 512KB / on die (at processor speed) / ECC	- Microsoft® Windows® XP
Memory	256MB standard / 1GB max ⁷ / SDRAM / non-parity / 133MHz / PC133-compliant /	Professional ²⁰
Dialectta deire	3.3v / two 144-pin SO-DIMM sockets / std mem in one socket / one socket available	♦ Disk-to-Disk Recovery (in hidden Service Partition)
Diskette drive DVD-ROM/CD-RW	3.5" 1.44MB (use in either Ultrabay™ or attach ext with optional cable via parallel port) DVD-ROM/CD-RW / 8X/8X/24X/8X ²¹ speed / removable from Ultrabay 2000	
Ultrabay 2000	One modular bay for interchangeable devices (right side) / Ultrabay Plus -compatible	INCLUDED SOFTWARE ¹⁴ (all)
Disk	20GB ⁸ (4200 rpm) / upgradable / S.M.A.R.T. / supports 2nd disk with optional HDD Adapter in Ultrabay 2000	Preloaded • Access ThinkPad
Display	14.1" (358.1mm) XGA (1024x768) TFT color / Active Matrix /	- Access Connections
	easy-open cover to unlatch and open with one hand (two latches)	- Access Help - Access Support
	S3 Graphics® SuperSavage / IXC16 / AGP 4X / 16MB SDRAM External SVGA to various modes such as 16.7 million colors, 85Hz, 1600x1200	Mediamatics™DVD PC-Doctor™
Keyboard	85-key / ThinkPad Button / palm rest / TrackPoint®, "Press-to-Select,"	ThinkPad Utilities Veritas RecordNOW
ThinkLight™	Internet Scroll Bar ¹³ / pitch: 19mm; stroke: 2.7mm (standard-size keys) Illuminates the keyboard to improve visibility in low-light conditions	IBM Software Installer
UltraPort™	UltraPort connector on top of display for options such as digital UltraPort Camera	■ IBM Update Connector™,15
Dimensions ³ Approximate weight ²	12.1" x 9.8" x 1.3" (305 mm x 250 mm x 33.1 mm) with optical drive and battery: 5.3 lbs (2.4kg)	Downloadable ■ IBM Rapid Restore™ PC
Case material	Titanium Composite in the top and bottom covers for enhanced strength	IBM Data Transfer
Battery - type Battery - life ¹⁰	Lithium Ion 6-cell / intelligent / supports unique 2nd battery in Ultrabay 2000 3.1 hrs	IBM Director Agent
Architecture	Intel 830MP chipset / 82830MP Graphics Memory Controller Hub (GMCH-M) /	License - Lotus® SmartSuite® Millennium and
	82801CAM ICH3-M I/O Controller Hub (ATA-100/66 EIDE, PCI bus, Low Pin Count	Lotus Notes® Client 5.0
	(LPC) interface, USB) / E82802AC Firmware Hub / PCI bus 2.2 32-bit, 33MHz (TI® PCI1420 CardBus, Mini PCI, external expansion) /	
Dealine Otation	LPC bus 33MHz (PC87392 Super I/O for diskette, serial, parallel, infrared)	
Docking Station PC Card Std slots	Optional ThinkPad Dock (includes Ultrabay 2000 and half-size PCI slot) 2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1	
Ports	Two USB (Version 1.1) / 9-pin serial / parallel / keyboard / mouse /	
Video out	external DB-15 monitor / infrared (4Mbps) / RJ-11 (modem) / RJ-45 (ethernet) S-video out port (TV out) / one industry standard connector	
Mini PCI	One Mini PCI type III slot (Communications Bay) / customer upgradable	
11b Wi-Fi ³² /mod	Mini PCI 11b Wi-Fi ³² wireless ⁴ , Intersil [®] Prism 2.5 chipset, dual antennas in display cover, Wi-Fi-certified / 56K [®] V.90 (V.92-designed ²⁹) modem combo, Lucent [®] chipset	
CDC	One Communications Daughter Card (CDC) socket / customer accessible	Ultrabay Plus integrated modular
Ethernet Audio support	10/100 ethernet on Communications Daughter Card / Intel 82562ETchipset Soft audio / ICH AC97 controller / SoundBlaster-compatible / CS4299 AC97 codec /	bay supports most Ultrabay 2000
AddioSupport	stereo speakers / 1 watt / volume up, down, mute buttons / internal microphone /	devices including CD-RW/DVD Combo drive, diskette drive, or Zip
Security	microphone input jack (3.5 mm) / headphone jack (3.5 mm) / line in jack (3.5 mm) Power-on password / hard disk password / supervisor password / security keyhole	drive; the optional Ultrabay Plus
Limited warranty ¹²	3 years/1 year battery - EasyServ ^{TM,19} onsite pickup and delivery courier service	Device Carrier adds potential functionality by supporting the
Service options	Service upgrades ²² provide up to five years of onsite or depot repair service coverage	Ultrabay Plus Numeric Keypad and
	from date of ThinkPad purchase (including warranty period)	Cradle for the WorkPad® c500 Series
64MB SO DIMM	133MHz CL3 NP SDRAM 19K4650 ThinkPad T20 Series Li-Ion Battery 02K6649	Universal 72 watt AC adapter
128 MB SO DIMM	133MHz CL3 NP SDRAM 19K4652 Ultrabay 2000 Li-Ion battery 02K6646	PC 99-compliant
	133MHz CL3 NP SDRAM 19K4654 ThinkPad 72W AC Adapter 02K6699 133MHz CL3 NP SDRAM 19K4656 ThinkPad 72W DC Auto Adapter 10K3820	CIM and DMI 2.0-compliant PXE 2.0-compliant
SuperDisk (LS-24)	0) UltraBay 2000 08K9616 Multiple Li-Ion/NiMH Battery Charger 02K6719	Wired for Management 2.0
Zip 250MB Ultraba	ay 2000 Drive 00N8253 ThinkPad Port Replicator 02K8667	Local and remote asset manage
	l Ultrabay 2000 Drive 05K9233 ThinkPad Dock 263120U D-RW Ultrabay 2000 22P9101 ThinkPad Monitor Stand 2001 22P5265	ment via the IBM Universal Manageability solutions
Ultralight 8X Max [DVD Ultrabay 2000 22P9102 Portable Drive Bay 2000 (accepts Ultrabay	IBM ImageUltra™ Services available
Travel Bezel for UI	bo III Ultrabay 2000 22P6980 2000 media and storage devices) 19K4480 trabay 2000 08K6070 Bluetooth™ UltraPort Module from IBM 09N9811	IBM Rapid Restore PC available to protect software image and data
Second HDD Adap	oter for Ultrabay 2000 08K6068 T Series FDD External Cable Kit 27L0524	Asset ID™ wireless RF technology
IBM ThinkPad Ultr	abay Plus Carrier 22P5737 ServicePac ^{®, 22} 2yr IOR 9x5 NBD 30L9190 abay Plus c500 Cradle 22P5738 ServicePac 3yr IOR 9x5 NBD 30L9197	(via installing into disk cover) International Warranty Service ¹⁷
ThinkPad Ultrabay	Plus Numeric Keypad 22P7330 20GB Hard Disk 9.5mm (4200 rpm) 08K9686	24 hour x 7 day18 toll-free hardware
ThinkPad Asset ID	PRF Adapter 08K6064 40GB HS Hard Disk 9.5mm (5400 rpm) 08K9816 m.com /pc/us/accessories 80GB Hard Disk 9.5mm (4200 rpm) 08K9869	support during the warranty ¹²
outer options at ib	initioning portion accessories [000D Haid Disk 3.3Hilli (4200 IpHI) 00k3009	

Spec	ed				Mini PCI	S	ecuri	ty		Vorkhorse (V or Global (G	
Type-model Processor GH	z Memory	Screen	Disk	Optical	Comm Bay	CDC	Chip	Preload	software	model `	date
2647-4RU Pentium® III-M 1.2	256MB	14.1" XGA	40GB8	DVD-ROM	Modem	Ethernet	No	Windows®	2000	W G Ap	r 2002
2647-4SU Pentium III-M 1.2	256MB	14.1" XGA	40GB	DVD-ROM	11b Wi-Fi32/mod	Ethernet	No	Windows 2	2000	W G Ap	r 2002
2647-8RU Pentium III-M 1.2	256MB	14.1" XGA	40GB	DVD-ROM	Modem	Ethernet	No	XP Pro		W G Ap	r 2002
2647-8SU Pentium III-M 1.2										W G Ap	r 2002
2647-BSU Pentium III-M 1.2	256MB	14.1" XGA	40GB	DVD-ROM	11b Wi-Fi/modem	n Ethernet	No	XP Pro (Office XP SE	3^{28} W Ap	r 2002

Positioning	The perfect balance of performance and portability; two-spindle system	SOFTWARE ¹⁴		
Processor	Mobile Intel® Pentium® III Processor-M 1.2GHz with enhanced Intel SpeedStep™ technology¹ and 133MHz frontside bus	Windows XP Pro models		
L2 cache	512KB / on die (at processor speed) / ECC	- Microsoft® Windows® XP Profes-		
Memory	256MB standard / 1GB max ⁷ / SDRAM / non-parity / 133MHz / PC 133 / 3.3v / two 144-pin SO-DIMM sockets / 256MB in one socket / one socket available	sional ²⁰ ⇒ Disk-to-Disk Recovery		
Diskette drive DVD-ROM CD-RW DVD-ROM/CD-RW Ultrabay 2000 Disk	3.5" 1.44MB (use in either Ultrabay™ or attach ext with optional cable via parallel port) DVD-ROM / 8X-3.3X ⁹ speed / bootable / removable from Ultrabay 2000 Optional / removable from Ultrabay 2000 Optional / removable from Ultrabay 2000 One modular bay for interchangeable devices (right side) / Ultrabay Plus -compatible 40GB ⁸ (4200 rpm) / upgradable / S.M.A.R.T. / supports 2nd disk with optional HDD Adapter in Ultrabay 2000	Vindows 2000 models Microsoft Windows 2000 Professional ²⁰ ConfigSafe® ◆ Disk-to-Disk Recovery (in hidden Service Partition)		
Display	14.1" (358.1mm) XGA (1024x768) TFT color / Active Matrix / easy-open cover to unlatch and open with one hand	INCLUDED SOFTWARE ¹⁴ (all)		
	S3 Graphics® SuperSavage / IXC16 / AGP 4X / 16MB SDRAM External SVGA to various modes such as 16.7 million colors, 85Hz, 1600x1200	Preloaded • Access ThinkPad		
Keyboard	85-key / ThinkPad Button / palm rest / TrackPoint®, "Press-to-Select,"	- Access Connections - Access Help		
ThinkLight™	Internet Scroll Bar ¹³ / pitch: 19mm; stroke: 2.7mm (standard-size keys) Illuminates the keyboard to improve visibility in low-light conditions	- Access Support		
UltraPort™	UltraPort connector on top of display for options such as digital UltraPort Camera	Adobe® Acrobat Reader		
Dimensions ³	Wi-Fi ³² models: 12.1" x 9.8" x 1.3"; Other (4RU/8RU): 12.0" x 9.8" x 1.3";	 Mediamatics™ DVD (DVD models) PC-Doctor™ 		
Approximate weight ²	with optical drive and battery: 5.17 lbs (2.34kg)	ThinkPad Utilities Varitas BassardNOW (CD DW reset)		
Case material	Titanium Composite in the top and bottom covers for enhanced strength	Veritas RecordNOW (CD-RW mod) IBM Software Installer		
Battery - type Battery - life ¹⁰	Lithium Ion 6-cell / intelligent / supports unique 2nd battery in Ultrabay 2000 xSU: 3.3 hrs; xRU: 3.4 hrs	IBM Update Connector™.15		
Architecture Docking Station PC Card Std slots	Intel 830MP chipset / 82830MP Graphics Memory Controller Hub (GMCH-M) / 82801CAM ICH3-M I/O Controller Hub (ATA-100/66 EIDE, PCI bus, Low Pin Count (LPC) interface, USB) / E82802AC Firmware Hub / PCI bus 2.2 32-bit, 33MHz (TI® PCI1420 CardBus, Mini PCI, external expansion) / LPC bus 33MHz (PC87392 Super I/O for diskette, serial, parallel, infrared) Optional ThinkPad Dock (includes Ultrabay 2000 and half-size PCI slot) 2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1	Downloadable • IBM Rapid Restore™ PC • IBM Data Transfer • IBM Director Agent License (CD not included) - Lotus® SmartSuite® Millennium and Lotus Notes® Client 5.0		
Ports	Two USB (Version 1.1) / 9-pin serial / parallel / keyboard / mouse / external DB-15 monitor / infrared (4Mbps) / RJ-11 (modem) / RJ-45 (ethernet)	Office XP Small Business model only (2647-BSU)		
Video out Mini PCI CDC Modem 11b Wi-Fi ³² /modem	S-video out port (TV out) / one industry standard connector One Mini PCI type III slot (Communications Bay) / customer upgradable One Communications Daughter Card (CDC) socket / customer accessible Some: Mini PCI 56K6 V.90 (V.92-designed ²⁹) modem card / Lucent® chipset Some: Mini PCI 11b Wi-Fi ³² wireless ⁴ , Intersil® Prism 2.5 chipset, dual antennas in	- Microsoft Office XP Small Business ²⁸ (Word, Excel, Outlook, Publisher, Small Business Tools) Office XP Small Business CD		
	display cover, Wi-Fi-certified / 56K ⁶ V.90 modem combo, Lucent [®] chipset	Ultrabay Plus integrated modular		
Ethernet Audio support	10/100 ethernet on Communications Daughter Card / Intel® 82562ETchipset Soft audio / ICH AC97 controller / SoundBlaster-compatible / CS4299 AC97 codec / stereo speakers / 1 watt / volume up, down, mute buttons / internal microphone /	bay supports most Ultrabay 2000 devices including CD-RW/DVD Combo drive, diskette drive, or Zip		
Security	microphone input jack (3.5 mm) / headphone jack (3.5 mm) / line in jack (3.5 mm) Power-on password / hard disk password / supervisor password / security keyhole	drive; the optional Ultrabay Plus Device Carrier adds potential		
Limited warranty ¹² Service options	3 years/1 year battery - EasyServ ^{TM.19} onsite pickup and delivery courier service Service upgrades ²² provide up to five years of onsite or depot repair service coverage from date of ThinkPad purchase (including warranty period)	functionality by supporting the Ultrabay Plus Numeric Keypad and Cradle for the WorkPad® c500 Series		
	133MHz CL3 NP SDRAM 19K4650 ThinkPad T20 Series Li-Ion Battery 02K6649 133MHz CL3 NP SDRAM 19K4652 Ultrabay 2000 Li-Ion battery 02K6649	Universal 72 watt AC adapter PC 99-compliant		

64MB SODIMM 133MHz CL3 NP SDRAM	19K4650	ThinkPad T20 Series Li-Ion Battery	02K6649
128 MB SO DIMM 133MHz CL3 NP SDRAN	l 19K4652	Ultrabay 2000 Li-Ion battery	02K6646
256 MB SO DIMM 133MHz CL3 NP SDRAN		ThinkPad 72W AC Adapter	02K6699
512 MB SO DIMM 133MHz CL3 NP SDRAN	l 19K4656	ThinkPad 72W DC Auto Adapter	10K3820
SuperDisk (LS-240) UltraBay 2000	08K9616	Multiple Li-Ion/NiMH Battery Charger	02K6719
Zip 250MB Ultrabaý 2000 Drive	00N8253	ThinkPad Port Replicator	02K8667
24X-10X CD-ROM Ultrabay 2000 Drive	05K9233	ThinkPad Dock .	263120U
8X/4X/24X Max CD-RW Ultrabay 2000	22P9101	ThinkPad Monitor Stand 2001	22P5265
Ultralight 8X Max DVD Ultrabay 2000	22P9102	Portable Drive Bay 2000 (accepts Ultrab	oay
CD-RW/DVD Combo III Ultrabay 2000	22P6980	2000 media and storage devices)	19K4480
Travel Bezel for Ultrabay 2000	08K6070	Bluetooth™ UltraPort Module from IBM	09N9811
Second HDD Adapter for Ultrabay 2000	08K6068	T Series FDD External Cable Kit	27L0524
IBM ThinkPad Ultrabay Plus Carrier	22P5737	ServicePac ^{®, 22} 2yr IOR 9x5 NBD	30L9190
IBM ThinkPad Ultrabay Plus c500 Cradle	22P5738	ServicePac 3yr IOR 9x5 NBD	30L9197
ThinkPad Ultrabay Plus Numeric Keypad	22P7330	20GB Hard Disk 9.5mm (4200 rpm)	08K9686
ThinkPad Asset ID RF Adapter	08K6064	40GB HS Hard Disk 9.5mm (5400 rpm)	08K9816
Other options at ibm.com/pc/us/accessories	S	80GB Hard Disk 9.5mm (4200 rpm)	08K9869

Universal 72 watt AC adapter PC 99-compliant CIM and DMI 2.0-compliant PXE 2.0-compliant Local and remote asset manage ment via the IBM Universal Manageability solutions IBM ImageUltra™ Services available IBM Rapid Restore PC available to protect software image and data Asset ID™ wireless RF technology (via installing into disk cover) International Warranty Service¹⁷ 24 hour x 7 day¹8 toll-free hardware support during the warranty¹²

					Warkhara (W)
Type-model Proce	Speed ssor GHz Memory Screen	Disk Optical	Diskette Mini PC Drive Comm B	ay CDC	Workhorse (W) or Global (G) Avail Preload model date
2647-7NU Pentiur 2647-3GU Pentiur 2647-2NU Pentiur 2647-4U2 Pentiur 2647-4U3 Pentiur 2647-T4U Pentiur	n III-M 1.13 256MB 14.1" XGA n III-M 1.13 256MB 14.1" XGA n III-M 1.0 256MB 14.1" XGA n III-M 1.13 256MB 14.1" XGA n III-M 1.13 256MB 14.1" XGA n III-M 1.0 256MB 14.1" SXGA+ n III-M 1.13 256MB 14.1" SXGA+ n III-M 1.13 256MB 14.1" XGA		None Modem None 11b Wi-Fi None Modem None 11b Wi-Fi None Modem None Modem None modem Diskette modem	Ether 22/mod Ether Ether Ether /mod Ether Ether Ether Ether	net Windows®XP Pro No Jun 2002 net Windows XP Pro No Jun 2002 net Windows XP Pro No Jun 2002 net Windows 2000 No Jun 2002 net Windows 2000 No Jun 2002 net Windows 2000 No Jun 2002 net Windows 2000 No Jun 2002 net Windows 2000 No Jun 2002 net Windows 2000 No Jun 2002 net Windows 2000 No Jun 2002 net Windows 2000 No Jun 2002 net Windows 2000 No Jun 2002
Positioning Processor	The perfect balance of performance Mobile Intel® Pentium® III Process	and portability; two-sp	oindle system		SOFTWARE ¹⁴
L2 cache Memory	enhanced Intel SpeedStep™ techno 512KB / on die (at processor speed 256MB standard / 1GB max ⁷ / SDR 3.3v / two 144-pin SO-DIMM socke	logy¹ and 133MHz froi) / ECC AM / non-parity / 133	ntside bus MHz / PC133-comp	liant /	Windows XP Pro models - Microsoft® Windows® XP Professional
Diskette drive CD-ROM DVD-ROM/CD-RW Ultrabay 2000	Some: 3.5" 1.44MB (use in Ultrabay Some: CD-ROM / 24X-10X9 / remov Some: Combo / DVD-ROM/CD-RW Ultrabay 2000 One modular bay for interchangeab	vable from Ultrabay 20 I / 8X/8X/24X/8X ²¹ sp	000 eed / removable fro	m	Windows 2000 models - Microsoft Windows 2000 Professional ¹³ ▶ ConfigSafe [®] ⇒ Disk-to-Disk Recovery
Disk	20GB ⁸ or 30GB (4200 rpm) / upgrade supports 2nd disk with optional HDD	lable / S.M.À.Ř.T. / Adapter in Ultrabay 2	2000		(in hidden Service Partition)
	Some: 14.1" (358.1mm) XGA (102 Some: 14.1" (358.1mm) SXGA+ (1 All: Easy-open cover to unlatch S3 Graphics® SuperSavage / IXC10	400x1050) TFT color and open with one had 5 / AGP 4X / 16MB SI	/ Active Matrix nd (two latches) DRAM	!	INCLUDED SOFTWARE ¹⁴ (all) Preloaded Access ThinkPad - Access Connections
Graphics - external Keyboard	External SVGA to various modes so 85-key / ThinkPad Button / palm res		<u> </u>		- Access Help - Access Support
ThinkLight™ UltraPort™	Internet Scroll Bar ¹³ / pitch: 19mm; Illuminates the keyboard to improve UltraPort connector on top of displa	stroke: 2.7mm (stand visibility in low-light o	ard-size keys) conditions	mera	 Mediamatics™ DVD (Combo models) PC-Doctor™ ThinkPad Utilities Veritas RecordNOW (Combo
Dimensions ³ Approximate weight ²	<i>Wi-Fi³² models</i> : 12.1" x 9.8" x 1.3"; with optical drive and battery: <i>T4U</i> (<i>Vi-Fi models</i>): 5.42 lbs (<i>2 Others</i> : 5.37 lbs (2.43kg)	CD-ROM model): 5.13	lbs (2.33kg);	2.47kg);	models) IBM Software Installer IBM Update Connector ^{TM,15}
Case material Battery - type Battery - life ¹⁰	Titanium Composite in the top and Lithium Ion 6-cell / intelligent / supp 3.1 hrs to 3.5 hrs depending on mod	orts unique 2nd batter			Downloadable • IBM Rapid Restore™ PC • IBM Data Transfer • IBM Director Agent
Architecture Docking Station PC Card Std slots Ports	Intel 830MP chipset / 82830MP Gra 82801 CAM ICH3-M I/O Controller F (LPC) interface, USB) / E82802AC F PCI bus 2.2 32-bit, 33MHz (TI® PCI LPC bus 33MHz (PC87392 Super I/Optional ThinkPad Dock (includes 2 Type I, 2 Type II, or 1 Type III / Ci Two USB (Version 1.1) / 9-pin seria external DB-15 monitor / infrared (4	Hub (ATA-100/66 EID Firmware Hub / 1420 CardBus, Mini F /O for diskette, serial, Ultrabay 2000 and ha ardBus 32-bit / PCMC al / parallel / keyboard	E, PCI bus, Low Pir PCI, external expans parallel, infrared) alf-size PCI slot) IIA 2.1 / mouse /	I) / n Count I sion) /	License (CD not included) - Lotus® SmartSuite® Millennium and Lotus Notes® Client 5.0
Video out Mini PCI CDC Modem	S-video out port (TV out) / one indu One Mini PCI type III slot (Commun One Communications Daughter Ca Some: Mini PCI 56K ⁶ V.90 (V.92-de	ications Bay) / custor .rd (CDC) socket / cus esigned ²⁹) modem car	ner upgradable stomer accessible d / Lucent® chipset		Ultrabay Plus integrated modular
11b Wi-Fi ³² /modem Ethernet Audio support Security	Some: Mini PCI 11b Wi-Fi ³² wireless display cover, Wi-Fi-certified 10/100 ethernet on Communication Soft audio / ICH AC97 controller / S stereo speakers / 1 watt / volume up microphone input jack (3.5 mm) / hr Power-on password / hard disk pass	1/56K ⁶ V.90 modem of s Daughter Card / Inte oundBlaster-compati o, down, mute buttons eadphone jack (3.5 m	combo, Lucent® chip el® 82562ETchipset ble / CS4299 AC97 s / internal micropho m) / line in jack (3.5	as in set codec / one / mm)	bay supports most Ultrabay 2000 devices including CD-RW/DVD Combo drive, diskette drive, or Zip drive; the optional Ultrabay Plus Device Carrier adds potential functionality by supporting the Ultrabay Plus Numeric Keypad and
Security chip Limited warranty ¹²	None 3 years/1 year battery - EasyServ TM	^{1,19} onsite pickup and o	delivery courier servi		Cradle for the WorkPad® c500 Series
64 MB SODIMM 128 MB SO DIMM 256 MB SO DIMM 512 MB SO DIMM SuperDisk (LS-24/ Zip 250MB Ultraba 24X-10X CD-ROM 8X/4X/24X Max CI Ultralight 8X Max I CD-RW/DVD Com Travel Bezel for UI Second HDD Ada; IBM ThinkPad Ultr IBM ThinkPad Ultr ThinkPad Ultrabay ThinkPad Asset ID	133MHz CL3 NP SDRAM 19K4650 133MHz CL3 NP SDRAM 19K4652 133MHz CL3 NP SDRAM 19K4654 133MHz CL3 NP SDRAM 19K4656 1) UltraBay 2000 08K9616 ay 2000 Drive 05K9233 D-RW Ultrabay 2000 22P9101 DVD Ultrabay 2000 22P9102 blo III Ultrabay 2000 22P9102 blo III Ultrabay 2000 22P9680 trabay 2000 08K6070 oter for Ultrabay 2000 08K6068 abay Plus Carrier 22P5737 abay Plus C500 Cradle v Plus Numeric Keypad 22P7330	ThinkPad T20 Serie Ultrabay 2000 Li-Ion ThinkPad 72W AC A ThinkPad 72W DC A Multiple Li-Ion/NiMH ThinkPad Port Repli ThinkPad Dock ThinkPad Monitor Si Portable Drive Bay 2	s Li-Ion Battery battery dapter Auto Adapter I Battery Charger cator tand 2001 2000 (accepts Ultral d storage devices) rt Module from IBM hal Cable Kit mm (4200 rpm) 9.5mm (5400 rpm) mm (4200 rpm) OR 9x5 NBD	02K6649 02K6646 02K6699 10K3820 02K6719 02K8667 263120U 22P5265 0ay 19K4480 09N9811 27L0524 08K9686 08K9816	Universal 72 watt AC adapter PC 99-compliant CIM and DMI 2.0-compliant PXE 2.0-compliant Wired for Management 2.0 Local and remote asset manage ment via the IBM Universal Manageability solutions IBM ImageUltra™ Services available IBM Rapid Restore PC available to protect software image and data Asset ID™ wireless RF technology (via installing into disk cover) International Warranty Service¹7 24 hour x 7 day¹8 toll-free hardware support during the warranty¹²

Type-model Proce	Speed essor GHz	Memory	Screen	Disk	Optical	Mini PCI Comm Bay	CDC	Security Chip	Pre	eload	Small business software	Avail date	
2647-3HU Pentiur 2647-5GU Pentiur 2647-9GU Pentiur		128MB 14.	1" XGA	30GB	DVD-ROM DVD-ROM DVD-ROM	Modem	Etherne Etherne Etherne	t No	Windo	ws® 2000 ws 2000 ws XP Pro	Office XP SB ²⁸ Office XP SB Office XP SB	Aug 2002 Aug 2002 Aug 2002	
Positioning Processor L2 cache Memory	The perfect of Mobile Intellenhanced In 512KB / on 6 128MB stan 3.3v / two 14	l [®] Pentium [®] Itel SpeedSt die (at proce Idard / 1GB	III Process ep™ techno essor speed max ⁷ / SDF	s or-M 1. plogy¹ ar l) / ECC RAM / ne	. 0 or 1.13GH nd 133MHz on-parity / 1	dz with frontside bu 33MHz / P	ıs C 133 /	t availabl	-	Microsoft® Profession	SOFTWARE ¹⁴ P Pro models Windows® XP ial sk Recovery		
Diskette drive DVD-ROM Ultrabay 2000 Disk	3.5" 1.44MB DVD-ROM / One modula 20GB ⁸ or 30 supports 2nd	' 8X-3.3Xº sp or bay for into GB (4200 rp	peed / boota erchangeat om) / upgrad	able / re ble devi dable / S	emovable fro ces (right sions	om Ultraba de)/ Ultrab	y 2000 [°]		é V	Vindows 20		n)	
Display	14.1" (358.1 easy-open c					Matrix /				Disk-to-Di	sk Recovery Service Partitior	1)	
Graphics controller Graphics - external							Hz, 1600	x1200			SOFTWARE ¹⁴ (all)	
Keyboard ThinkLight™ UltraPort™	85-key / This Internet Scre Illuminates t UltraPort co	oll Bar ¹³ / pit he keyboar	ch: 19mm; d to improve	stroke: e visibili	2.7mm (sta	ndard-size ht conditior	keys) is	Camera	1 -	- Access H	Connections Help		
Dimensions ³ Approximate weight ² Case material Battery - type Battery - life ¹⁰	with optical of Titanium Co Lithium Ion 63.1 hrs to 3.5	drive and ba omposite ir 6-cell / intell	ttery: 5.9 lb the top and igent / supp	os (2.36 d bottor oorts uni	kg) ´ n covers for				•	PC-Doctor ThinkPad IBM Softw	ics ^{†M} DVD (DVD [™]	,	
Docking Station PC Card Std slots Ports	Intel 830MF 82801CAM Low Pin Cou PCI bus 20. LPC bus 33I Optional Th 2 Type I, 2 T Two USB (V external DB	ICH3-M I/O unt (LPC) int 32-bit, 33M MHz (PC87; inkPad Doo Type II, or 1 'ersion 1.1)	Controller I terface, USI Hz (TI® PCI 392 Super I k (includes Type III / C / 9-pin seria	Hub (A1 B) / E82 I1420 C I/O for d Ultraba ardBus al / para	FA-100/66 E 802AC Firm CardBus, Milliskette, ser ay 2000 and 32-bit / PC allel / keyboa	EIDE, PCI b nware Hub ni PCI, exte ial, parallel I half-size I MCIA 2.1 ard / mouse	ous, / ernal exp , infrared PCI slot)	ansion) /)	• • L	Downloadable IBM Rapid Restore™ PC IBM Data Transfer Universal Manageability Services™ License Lotus® SmartSuite® Millennium and Lotus Notes® Client 5.0 Office XP Small Business			
Video out Mini PCI Modem CDC Ethernet Audio support	S-video out One Mini PCI Mini PCI 56I One Commu 10/100 ethe Soft audio / stereo spea microphone	El type III slo K ⁶ V.90 (V.9 unications D rnet on Com ICH AC97 c kers / 1 watt input jack (i	of (Commur 2-designed 2 aughter Camunication ontroller / Str. / volume u 3.5 mm) / h	nication d ²⁹) mod ard (CD ns Daug SoundBl p, dowr eadpho	s Bay) / cus lem card / L C) socket / o hter Card / l laster-comp n, mute butt one jack (3.5	tomer upgi ucent® chip customer a intel® 8256, patible / CS ons / intern 5 mm) / line	oset ccessible 2ETchips 4299 AC al microp in jack (3	set 97 codec shone / 3.5 mm)	/	Business ²⁴ Publisher, Office XP	Office XP Small 3 (Word, Excel, C Small Business Small Business	Tools) CD	
Security Security chip	Power-on pa					<u>'</u>			b	ay supports	us integrated mo s most Ultrabay 2	2000	
Limited warranty ¹² Service options	3 years/1 ye Service upg from date of	rades ²² prov ThinkPad po	ide up to fiv urchase (ind	e years cluding	of onsite or	depot repa riod)	ir service	ervice coverag 02K6	e C	Combo drive Irive; the op Device Carri unctionality	uding CD-RW/D\ e, diskette drive, tional Ultrabay Prier adds potentia by supporting the S Numeric Keypa	or Zip Ius I	
128 MB SO DIMM 256 MB SO DIMM 512 MB SO DIMM	133MHz CL3 133MHz CL3	B NP SDRAM B NP SDRAM	И 19K4652 И 19K4654	Ultrab Think	ay 2000 Li- Pad 72W A Pad 72W D	Ion battery C Adapter	•	02K6 02K6 02K6 10K3	646 699	Cradle for th Series	e WorkPad® c50 2 watt AC adapt	0	
SuperDisk (LS-24/Zip 250MB Ultraba 24X-10X° CD-ROM 8X/4X/24X Max° O Ultralight 8X° Max CD-RW/DVD Com Travel Bezel for Ul Second HDD Ada; IBM ThinkPad Ultr IBM ThinkPad Ultr ThinkPad Ultrabay ThinkPad Asset IL IBM Optical 3-Butt IBM Optical 3-Butt IBM High Rate Wil Other options at ib	0) UltraBay 20 ay 2000 Drive W Ultrabay 20 DVD Ultraba abo III Ultraba Itrabay 2000 beter for Ultrab abay Plus Ca abay Plus C5 / Plus Numeri O RF Adapter on Travel Wh on ScrollPoin reless LAN Pi	000 Drive 1000 Drive 102 2000 103 2000 104 2000 105 2000 107 2000 107 2000 107 2000 108 2000	08K9616 00N8253 05K9233 22P9101 22P96980 08K6070 08K6068 22P5737 22P5738 22P7330 08K6064 31P7410 09N9904	Multip Think Think Portal IBM 1 Servic Servic Servic Servic Servic Servic Servic Servic	ole Li-Ion/Nil Pad Port Re Pad Dock Pad Monito ble Drive Ba 2000 media ies FDD Exi 28MB USB cePac 3yr I(cePac 5yr I(cePac 5yr V Hard Disk I Hard Disk I	MH Battery eplicator r Stand 200 ay 2000 (ac and storacternal Cabl 2.0 Memo yr IOR 9x5 NB OR 9x5 NB OR 9x5 NB OR 9x5 NB &L P/U De Drive	Charger Cha	02K6 02K8 26312 22P5 rabay	719 F 667 C C C C C C C C C	PC 99-comp CM and DM PXE2.0-cor Vired for Ma ocal and re- ment via to Manageal BM Rapid Fortect so Asset IDTM w (via install Personalize Personalize 44 hour x 7 of	liant 11 2.0-compliant	nage al available lable to id data nology ver) ipport ice ¹⁷ ardware	

Type-model Proce		GB ⁸ Optical pad wireless/modem Bluetooth™ plan	Security business or Global (Ġ) Ávail ar Chip software model date
2366-63U Pentium 2366-81U Pentium 2366-82U Pentium 2366-84U Pentium 2366-85U Pentium 2366-91U Pentium 2366-91U Pentium 2366-92U Pentium		40G DVD 11b Wi-Fi/modem Open 10/ 40G DVD Yes Cisco 802.11b Modem 10/ + 40HS Combo Yes Open (wireless upg) Modem 10/	100 XP Pro W G May 2002 100 XP Pro W G May 2002 100 XP Pro W G May 2002 100 Yes XP Pro W G May 2002 100 Yes XP Pro W G May 2002 100 Yes XP Pro W May 2002 100 Yes XP Pro May 2002 100 Yes XP Pro May 2002 100 Yes XP Pro May 2002
Positioning		nance and portability; two-spindle system	SOFTWARE ¹⁴
Processor L2 cache Memory	512KB / on die (at processor s 256MB standard / 1GB max ⁷ two 200-pin SO-DIMM socket	echnology¹ and 400MHz frontside bus peed) / ECC ' PC2100 266MHz DDR-SDRAM / non-parity / CL2.5 / s / 256MB in one socket / one socket available	Windows XP Pro models - Microsoft® Windows® XP Professional ²⁰ ⇒ Disk-to-Disk Recovery
Diskette drive DVD Combo Ultrabay 2000 Disk	Some: DVD-ROM / 8X-3.3X ⁹ Some: DVD-ROM/CD-RW / 8 One modular bay for interchar 20GB ⁸ or 40GB (4200 rpm) or	Ultrabay™-based or USB-based diskette drive speed / bootable / removable from Ultrabay 2000 X/8X/24X/8X²¹ speed / removable from Ultrabay 2000 ngeable devices (right side) / Ultrabay Plus -compatible 40GB HS (5400 rpm) / upgradable / S.M.A.R.T. / I HDD Adapter in Ultrabay 2000 / HDD Shock Absorber	(in hidden Service Partition) INCLUDED SOFTWARE ¹⁴ (all) Preloaded • Access ThinkPad - Access Connections
Display Graphics controller	Some: 14.1" (358.1mm) SXG All: Easy-open cover to un	. (1024x768) TFT color / Active Matrix / 150 nits A+ (1400x1050) TFT color / Active Matrix / 150 nits latch and open with one hand 500 / AGP 4X / 16MB DDR-SDRAM 364MHz	- Access Help - Access Support • Adobe Acrobat Reader • InterVideo WinDVD (DVD models)
	External monitor support via a	nalog DB-15 connector / up to 2048x1536x16.7M colors a rnal digital monitor ⁵ via the Digital Video Interface (DVI)	at • PC-Doctor™ • ThinkPad Utilities • Veritas RecordNOW (CD-RW mod) • IBM Update Connector™.15
Keyboard TrackPoint® Touch pad ThinkLight™	TrackPoint® pointing device, " Some: UltraNav multi-pointing	Im rest / pitch: 19mm; stroke: 2.7mm (std-size keys) Press-to-Select," Internet Scroll Bar¹³ g system / touch pad below keyboard / Tap Zones prove visibility in low-light conditions / no UltraPort™	Downloadable IBM Rapid Restore™ PC IBM Data Transfer IBM Director Agent
Dimensions ³ Approximate weight ² Case material Battery - type Battery - life ¹⁰	Titanium Composite in the to	5.33 to 5.67 lbs (2.42 to 2.57 kg) depending on model op and bottom covers for enhanced strength supports unique 2nd battery in Ultrabay 2000	Client Security Software (models with security chip) License (CD not included) Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client
Architecture Docking Station PC Card Std slots Ports	82801CAM ICH3-M I/O Contr Low Pin Count (LPC) interfac 33MHz (TI* PCI1520 CardBu LPC bus 33MHz (security chi Optional ThinkPad Dock (inc 2 Type I, 2 Type II, or 1 Type Two USB (Version 1.1) / 9-pir (4Mbps) / RJ-11 (modem) / R	IP Memory Controller Hub (MCH-M) / oller Hub (ATA-100 EIDE, PCI bus, ethernet MAC, e, USB [Bluetooth], Firmware Hub) / PCI bus 2.2 32-bit, s controller, Mini PCI, external expansion) / o; PC87392 Super I/O for diskette, serial, par, infrared) ludes Ultrabay 2000 and half-size PCI slot) III / CardBus 32-bit / PCMCIA 2.1 serial / parallel / external DB-15 monitor / infrared J-45 (ethernet) / no keyboard or mouse port (use USB)	Office XP Small Business model only (2366-C1U) - Microsoft Office XP Small Business ²⁸ (Word, Excel, Outlook, Publisher, Small Business Tools) \$\diamoldarrow\$ Office XP Small Business CD
	Some: Mini PCI 11b Wi-Fi ³² w chipset, dual antennas 56K ⁶ V.90 (V.92-design	mmunications Bay) / customer upgradable ^{4,36} ireless ⁴ , Intel PRO/Wireless LAN with Intersil® Prism 2.5 in display cover, Wi-Fi-certified / ned ²⁹) modem combo, Agere® chipset	Ultrabay Plus integrated modular bay supports most Ultrabay 2000 devices including CD-RW/DVD Combo drive, diskette drive, or Zip drive; the optional Ultrabay Plus Device Carrier adds
802.11b CDC Modem	chipset, dual antennas One Communications Daught Some: 56K ⁶ V.90 (V.92-design	ess ⁴ , Cisco® Aironet® Wireless 802.11b, Prism 2.0 in display cover, Wi-Fi-certified er Card (CDC) socket / customer accessible ned ²⁹) modem in CDC / Agere® chipset	potential functionality by supporting the Ultrabay Plus Numeric Keypad and Cradle for the WorkPad® c500 Series
Bluetooth™ Ethernet Audio support	10/100 ethernet on motherboa Soft audio / ICH AC97 control codec / stereo speakers / 1 w.	nology / on CDC / power button on display rd / Intel 82562ETchipset (physical layer) ler / SoundBlaster Pro™-compatible / AD1881A AC97 att / volume up, down, mute buttons / internal mic / n) / headphone jack (3.5 mm) / line in jack (3.5 mm)	Universal 72 watt AC adapter Asset ID ^{TM,34} (system-specific info in chip accessed over network) PC 2001-compliant
Security Security chip	Power-on password / hard dis Some: IBM Embedded Secu factor authentication / local file	k password / supervisor password / security keyhole rity Subsystem 2.0 ³³ / hardware key storage / multi- e encryption / enhances VPN security ¹⁶ / TCG-complian	ACPI 1.0b and 2.0-compliant CIM and DMI 2.0-compliant PXE 2.0-compliant IBM ImageUltra™ Services available
Limited warranty ¹²	· · · · ·	Serv ^{TM,19} onsite pickup and delivery courier service	☐ IBM Rapid Restore PC available to
256 MB PC2100 D 512 MB PC2100 D IBM 11a/b/g Wireld IBM ThinkPad Ultr	Plus Numeric Keypad 22P7	 ThinkPad Removable Diskette Drive 08K9603 Portable Drive Bay 2000 (accepts Ultrabay 2000 media and storage devices) 19K4480 ThinkPad T30 Series Li-Ion Battery 02K7050 Ultrabay 2000 Li-Ion battery 02K6646 	International Warranty Šervice ¹⁷ Personalized Web-based support ³¹ Proactive e-mail updates ³¹ 24 hour x 7 day ¹⁸ toll-free hardware support during the warranty ¹²
24X-10X CD-RON Ultralight 8X Max I CD-RW/DVD Com Second HDD Ada IBM High Rate Wil	Ultrabay 2000 Drive DVD Ultrabay 2000 22P9 Ibo IV Ultrabay 2000 22P0 Other for Ultrabay 2000 28K6 Celess LAN Mini PCI 21P1 Ieless 802.11b Mini PCI 31P8	1233 ThinkPad 72W AC/DC Combo Adapter 22P9010 1102 Multiple Li-Ion/NiMH Battery Charger 02K6719 1991 20GB Hard Disk 9.5mm (4200 rpm) 08K9686 1068 40GB HS Hard Disk 9.5mm (5400 rpm) 08K9816 1701 80GB Hard Disk 9.5mm (4200 rpm) 08K9869	ThinkPad Port Replicator 02K8667 ThinkPad Dock 263120U ServicePac ^{®, 22} 2yr IOR 9x5 NBD 30L9190

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Type-model Proce	Speed ssor GHz Memory Screen	UltraNav™ Mini PCI CDC Disk touch Comm Bay modem o GB ⁸ Optical pad wireless/modem Bluetooth	
2366-23U Pentium 2366-41U Pentium 2366-42U Pentium 2366-42U Pentium 2366-45U Pentium 2366-51U Pentium 2366-52U Pentium		40G DVD Open (wireless upg) Mode 40G DVD Yes 11b Wi-Fi³²/modem Open 40G DVD 11b Wi-Fi/modem Open 40G DVD Yes Cisco 802.11b Mode 40HS Combo Yes Open (wireless upg) Mode 40HS Combo Yes 11b Wi-Fi/modem Blueto	m 10/100 W2000 W G May 2002 m 10/100 W2000 W G May 2002 m 10/100 W2000 W G May 2002 n 10/100 Yes W2000 W G May 2002
Positioning Processor	The perfect balance of performation Mobile Intel® Pentium® 4 Proc	ance and portability; two-spindle system	SOFTWARE ¹⁴
L2 cache Memory	enhanced Intel SpeedStep™ te 512KB / on die (at processor sp 256MB standard / 1GB max ⁷ /	chnology ¹ and 400MHz frontside bus	Windows 2000 models - Microsoft® Windows® 2000 Professional® ● ConfigSafe® ⇒ Disk-to-Disk Recovery
Diskette drive DVD Combo Ultrabay 2000 Disk	Some: DVD-ROM / 8X-3.3X9 s Some: DVD-ROM/CD-RW / 8X One modular bay for interchan 20GB8 or 40GB (4200 rpm) or 4	Iltrabay™-based or USB-based diskette drive peed / bootable / removable from Ultrabay 2000 (/8X/24X/8X ²¹ speed / removable from Ultrabay 2 geable devices (right side) / Ultrabay Plus -compa 40GB HS (5400 rpm) / removable / 9.5 or 12.5mm HDD Adapter in Ultrabay 2000 / HDD Shock Abso	(in hidden Service Partition) 2000 attible b bay* orber (in hidden Service Partition) INCLUDED SOFTWARE¹⁴ (all) Preloaded • Access ThinkPad
Display	Some: 14.1" (358.1mm) SXGA	(1024x768) TFT color / Active Matrix / 150 nits A+ (1400x1050) TFT color / Active Matrix / 150 nit atch and open with one hand (two latches)	- Access Connections - Access Help - Access Support • Adobe Acrobat Reader
	External monitor support via an	500 / AGP 4X / 16MB DDR-SDRAM 364MHz alog DB-15 connector / up to 2048x1536x16.7M o nal digital monitor via the Digital Video Interface (I g solutions	 InterVideo WinDVD (DVD models) PC-Doctor™ ThinkPad Utilities Veritas RecordNOW (CD-RW mod)
Keyboard TrackPoint® Touch pad ThinkLight™	TrackPoint® pointing device, "F Some: UltraNav multi-pointing	m rest / pitch: 19mm; stroke: 2.7mm (std-size ke Press-to-Select," Internet Scroll Bar ¹³ system / touch pad below keyboard / Tap Zones prove visibility in low-light conditions / no UltraPo	Downloadable ■ IBM Rapid Restore™ PC
Dimensions ³ Approximate weight ² Case material Battery - type Battery - life ¹⁰	Titanium Composite in the to	5.33 to 5.67 lbs (2.42 to 2.57 kg) depending on m p and bottom covers for enhanced strength supports unique 2nd battery in Ultrabay 2000	IBM Director Agent Client Security Software (models with security chip) License (CD not included) Lotus® SmartSuite® Millennium and
Architecture Docking Station PC Card Std slots Ports	82801CAM ICH3-M I/O Control Low Pin Count (LPC) interface 33MHz (TI® PCI1520 CardBus LPC bus 33MHz (security chip Optional ThinkPad Dock (incluse 1 Type I, 2 Type II, or 1 Type II Two USB (Version 1.1) / 9-pin	P Memory Controller Hub (MCH-M) / Iller Hub (ATA-100 EIDE, PCI bus, ethernet MAC, USB [Bluetooth], Firmware Hub) / PCI bus 2.2 3: controller, Mini PCI, external expansion) / ; PC87392 Super I/O for diskette, serial, par, infrudes Ultrabay 2000 and half-size PCI slot) II / CardBus 32-bit / PCMCIA 2.1 serial / parallel / external DB-15 monitor / infrared-45 (ethernet) / no keyboard or mouse port (use)	only (2366-G1U) - Microsoft Office XP Small Business ²⁸ (Word, Excel, Outlook, Publisher, Small Business Tools) Office XP Small Business CD
Video out Mini PCI 11b Wi-Fi ³² /mod 802.11b CDC Modem	Some: Mini PČÍ 11b Wi-Fi³² wi chipset, dual antennas i 56K° V.90 (V.92-design Some: Mini PCI 802.11b wirele chipset, dual antennas i One Communications Daughte	industry standard connector imunications Bay) / customer upgradable reless ⁴ , Intel PRO/Wireless LAN with Intersil® Pris n display cover, Wi-Fi-certified / ed ²⁹) modem combo, Agere® chipset ess ⁴ , Cisco® Aironet® Wireless 802.11b, Prism 2.0 n display cover, Wi-Fi-certified r Card (CDC) socket / customer accessible ed ²⁹) modem in CDC / Agere® chipset	supports most Ultrabay 2000 devices including CD-RW/DVD Combo drive, diskette drive, or Zip drive; the optional Ultrabay Plus Device Carrier adds potential functionality by supporting the Ultrabay Plus Numeric Keypad and
Bluetooth™ Ethernet Audio support	Some: Bluetooth wireless techn 10/100 ethernet on motherboar Soft audio / ICH AC97 controlle codec / stereo speakers / 1 wa microphone input jack (3.5 mm Power-on password / hard disk	nology / on CDC / power button on display d / Intel 82562ETchipset (physical layer) er / SoundBlaster Pro [™] -compatible / AD1881A A tr / volume up, down, mute buttons / internal mic n) / headphone jack (3.5 mm) / line in jack (3.5 mr k password / supervisor password / security keyf	chip accessed over network) m) PC 2001-compliant hole ACPI 1.0b and 2.0-compliant
Security chip	factor authentication / local file	ity Subsystem 2.0 ³³ / hardware key storage / mu encryption / enhances VPN security ¹⁶ / TCG-cor	mpliant PXE 2.0-compliant
256 MB PC2100 D 512 MB PC2100 D IBM ThinkPad Ultr IBM ThinkPad Ultr ThinkPad Ultrabay Zip 250MB Ultraba	DR-SDRAM CL2.5 SOD 10K0 DR-SDRAM CL2.5 SOD 10K0 DR-SDRAM CL2.5 SOD 10K0 DR-SDRAM CL2.5 SOD 10K0 abay Plus Carrier 22P5 abay Plus c500 Cradle p Plus Numeric Keypad 22P7	ThinkPad Removable Diskette Drive 08 Portable Drive Bay 2000 (accepts Ultrabay 2000 media and storage devices) 19 ThinkPad T30 Series Li-Ion Battery 08 Ultrabay 2000 Li-Ion battery 08 ThinkPad 72W AC Adapter 08	8K6070 BM Rapid Restore PC available to protect software image and data 8K9603 International Warranty Service ¹⁷
Ultralight 8X Max I CD-RW/DVD Com Second HDD Ada IBM High Rate Wi Cisco Aironet Wire	DVD Ultrabay 2000 22P9 abo IV Ultrabay 2000 22P9 toter for Ultrabay 2000 08K6 reless LAN Mini PCI 22P7 eless 802.11b Mini PCI 31P8	102 Multiple Li-Ion/NiMH Battery Charger 07 991 20GB Hard Disk 9.5mm (4200 rpm) 08 40GB HS Hard Disk 9.5mm (5400 rpm) 08 701 80GB Hard Disk 9.5mm (4200 rpm) 08	2K6719 Adapter 31P9101 8K9686 ServicePac®,22 2yr IOR 9x5 NBD 8K9816 30L9190 8K9869 ServicePac 3yr IOR 9x5 NBD

		UltraNav™	Mini PCI	CDC Ethern	et Preload Small Workhorse (W)
Type-model Proce		Disk touch		dem or on	Security business or Global (G) Avail
2366-86U Pentium 2366-87U Pentium 2366-8AU Pentium 2366-88U Pentium 2366-88U Pentium 2366-89U Pentium 2366-96U Pentium 2366-97U Pentium 2366-C6U Pentium	1º 4-M 1.9 256MB 14.1" XGA 14-M 2.0 256MB 14.1" XGA 14-M 2.0 256MB 14.1" XGA 14-M 2.0 256MB 14.1" XGA 14-M 1.9 256MB 14.1" XGA 14-M 2.0 256MB 14.1" XGA 14-M 2.0 256MB 14.1" XGA 14-M 2.0 256MB 14.1" SXGA 14-M 2.0 256MB 14.1" SXGA 14-M 2.0 256MB 14.1" SXGA	40HS DVD Yes Or 40HS DVD Yes 11 40HS DVD Yes Cir 20G DVD Or 40HS DVD Or 40HS DVD 11 + 60G Combo Yes Or + 60G Combo Yes 11 40HS DVD Yes Or	b Wi-Fi/modem onen (wireless upg)	Modem 10/1 Open 10/1 Modem 10/1 Modem 10/1 Open 10/1 Modem 10/1	00 XP Pro W G Aug 2002 00 Yes XP Pro W G Aug 2002 00 Yes XP Pro W G Aug 2002 00 XP Pro W G Aug 2002 00 XP Pro W G Aug 2002 00 Yes XP Pro W G Aug 2002 00 Yes XP Pro Aug 2002 00 Yes XP Pro Aug 2002 00 Yes XP Pro Aug 2002 00 Yes XP Pro Aug 2002
Positioning Processor	The perfect balance of perform Mobile Intel® Pentium® 4 Pro				SOFTWARE ¹⁴
L2 cache Memory	enhanced Intel SpeedStep™ t 512KB / on die (at processor s 256MB standard / 1GB max ⁷ two 200-pin SO-DIMM socker	echnology¹ and 400MHz speed) / ECC / PC2100 266MHz DDR- s / 256MB in one socket	z frontside bus -SDRAM / non-parii : / one socket availa	ıble	Windows XP Pro models - Microsoft® Windows® XP Professional® ⇒ Disk-to-Disk Recovery (in hidden Service Partition)
Diskette drive DVD Combo Ultrabay 2000 Disk	None standard / use optional Some: DVD-ROM / 8X-3.3X° Some: DVD-ROM/CD-RW / 1 One modular bay for intercha 20GB8 (4200 rpm) or 40GB H supports 2nd disk with optional	speed / bootable / remov 6X/10X/24X/8X ²¹ speed ngeable devices (right sid S (5400 rpm) or 60GB (4	/able from Ultrabay / removable from U de) / Ultrabay Plus - 200 rpm) / 9.5 or 12	2000 Iltrabay 2000 compatible 5 mm bay* /	INCLUDED SOFTWARE ¹⁴ (all) Preloaded • Access ThinkPad - Access Connections
Display	Some: 14.1" (358.1mm) XGA Some: 14.1" (358.1mm) SXGA All: Easy-open cover to un		lor / Active Matrix /		- Access Help - Access Support - Adobe Acrobat Reader - ADA Bonid Restaus M.P.C.
	ATI® Mobility™ RADEON™ 7 External monitor support via a 75Hz / DDC2B / supports exte on either of the optional dockin	nalog DB-15 connector / rnal digital monitor via th	up to 2048x1536x1	6.7M colors a	
Keyboard TrackPoint® Touch pad ThinkLight™	87-key / ThinkPad Button / pa TrackPoint® pointing device, " Some: UltraNav multi-pointing Illuminates the keyboard to in	Press-to-Select," Interne g system / touch pad belo	et Scroll Bar¹³ ` ow keyboard / Tap 2	Zones	IBM Update Connector ^{TM,15} Downloadable IBM Director Agent Software Delivery Assistant
Dimensions ³ Approximate weight ² Case material Battery - type Battery - life ¹⁰	12.0" x 9.8" x 1.4"; 304mm x 2 with optical drive and battery: Titanium Composite in the tuthium lon 6-cell / intelligent Wireless 87U/8AU/89U/97U:	50mm x 36.6mm 5.33 to 5.67 lbs (2.42 to op and bottom covers for supports unique 2nd bat	2.57 kg) depending enhanced strength tery in Ultrabay 2000	g on model	System Migration Assistant Client Security Software (models with security chip) License (CD not included) Lotus® SmartSuite® Millennium and
Architecture Docking Station PC Card Std slots Ports	Intel 845MP chipset / 82845M 82801CAM ICH3-M I/O Contr Low Pin Count (LPC) interfac 33MHz (TI® PCI1520 CardBu LPC bus 33MHz (security chi Optional ThinkPad Dock (inc 2 Type I, 2 Type II, or 1 Type Two USB (Version 1.1) / 9-pin	oller Hub (ATA-100 EID) e, USB [Bluetooth], Firm s controller, Mini PCI, ext p; PC87392 Super I/O fo ludes Ultrabay 2000 and III / CardBus 32-bit / PC n serial / parallel / externa	E, PCI bus, etherne ware Hub) / PCI bus ernal expansion) / or diskette, serial, pa d half-size PCI slot) MCIA 2.1 al DB-15 monitor / in	s 2.2 32-bit, ar, infrared) nfrared	Lotus Notes® Stand-alone Client Office XP Small Business model only (2366-C6U) - Microsoft Office XP Small Business²s (Word, Excel, Outlook, Publisher, Small Business Tools) Office XP Small Business CD
Video out Mini PCI 11B Wi-Fi ³² /mod	(4Mbps) / RJ-11 (modem) / R S-video out port (TV out) / one One Mini PCI type III slot (Co Some: Mini PCI 11B Wi-Fi ³² v chipset, dual antennas 56K ⁶ V.90 (V.92-desig Some: Mini PCI 802.11b wirel	e industry standard conn mmunications Bay) / cus vireless ⁴ , Intel PRO/Wire in display cover, Wi-Fi-c ned ²⁹) modem combo, Ac	ector tomer upgradable less LAN with Inters ertified / gere® chipset	sil® Prism 2.5	Universal 72 watt AC adapter Asset ID ^{TM,34} (system-specific info in chip accessed over network) PC 2001-compliant ACPI 1.0b and 2.0-compliant CIM and DMI 2.0-compliant PXE 2.0-compliant
CDC Modem Bluetooth™ Ethernet Audio support	chipset, dual antennas One Communications Daught Some: 56K ⁶ V.90 (V.92-desig Some: Bluetooth wireless ted 10/100 ethernet on motherboa Soft audio / ICH AC97 control codec / stereo speakers / 1 w	in display cover, Wi-Fi-ce er Card (CDC) socket / ce ned ²⁹) modem in CDC / A nology / on CDC / powe and / Intel 82562ETchipse ler / SoundBlaster Pro TM att / volume up, down, m	ertified ustomer accessible ugere® chipset r button on display t (physical layer) -compatible / AD18: uute buttons / intern	81A AC97 al mic /	IBM ImageUltra™ Services available IBM Rapid Restore PC available to protect software image and data International Warranty Service¹ 24 hour x 7 day¹ 8 toll-free hardware support during the warranty¹
Security Security chip	microphone input jack (3.5 m Power-on password / hard dis Some: IBM Embedded Secu factor authentication / local fil	sk password / supervisor I rity Subsystem 2.0 33 / e encryption / enhances	r pasśword / securit hardware key stora VPN security¹6 / TC	y keyhóle ge / multi- G-compliant	
Limited warranty ¹²	3 years/1 year battery - Easy				ThinkPad Port Replicator 02K8667 ThinkPad Dock 263120U
256 MB PC2100 D 512 MB PC2100 D IBM ThinkPad Ultr ThinkPad Ultrabay SuperDisk (LS-24/ Zip 250MB Ultraba 24X-10X ⁹ CD-RON Ultralight 8X ⁹ Max CD-RW/DVD Com Second HDD Adap ThinkPad Remova	v Plus Numeric Keypad 0) UltraBay 2000 ay 2000 Drive 00 Ultrabay 2000 Drive 05K9 05K9 05K9 05K9 05K9 05K9 05K9 05K9	2000 Portable Drive Bay 2000 media and 7737 ThinkPad T30 Ser Ultrabay 2000 Li-lu 3010 Multiple Li-lon/NiN 30233 IBM High Rate Wir 3023 Cisco Aironet Wire 20GB Hard Disk 9 40GB HS Hard Disk 3068 BOGB HArd Disk 9	y 2000 (accepts Ult d storage devices) ries Li-lon Battery on battery c Adapter MH Battery Charger reless LAN Mini PC eless 802.11b Mini P. 5.5mm (4200 rpm) sk 9.5mm (5400 rpm)	19K4480 02K7050 02K6646 02K6699 02K6719 01 22P7701 PCI 31P8301 08K9686 n) 08K9869	ServicePac 9.22 2yr IOR 9x5 NBD 30L9190 ServicePac 3yr IOR 9x5 NBD 30L9197 ServicePac 4yr IOR 9x5 NBD 69P9198 ServicePac 5yr IOR 9x5 NBD 69P9200 ServicePac 4yr P&L P/U Depot 69P9199 ServicePac 5yr P&L P/U Depot 69P9201
Ü	ess CardBus Adapter 31Ps portant warranty information	•	om.com/pc/us/acce		(T30A) © IBM Corp. January 200

Type-model Proce	Speed essor GHz Memory S	Dis Screen GB	k tou	Nav™ Mini PCI uch Comm Bay ad wireless/modem	CDC E modem or Bluetooth™	thernet Workhorse (W) on Security or Global (G) Avail planar chip Preload or Entry (E) date
2366-FBU Pentium 2366-JBU Pentium	n® 4-M 2.2 256MB 14.1 n 4-M 2.4 256MB 14.1 n 4-M 2.2 256MB 14.1	"XGA 40H "SXGA+ 60G	HS Combo Ye	es 11b Wi-Fi ³² /modem es 11b Wi-Fi/modem	Open Open	10/100 Yes XP Pro W G Jan 2003 10/100 Yes XP Pro Jan 2003 10/100 Yes XP Pro Sep 2003
Positioning Processor L2 cache Memory	The perfect balance of p Mobile Intel® Pentium® enhanced Intel SpeedS 512KB / on die (at proce 256MB standard / 1GB two 200-pin SO-DIMM	[®] 4 Processor Step™ technolo essor speed) / max ⁷ / PC210	- M 2.2 or 2.40 ogy¹ and 400N / ECC 00 266MHz D	GHz with MHz frontside bus DR-SDRAM / non-pari		SOFTWARE¹⁴ Windows XP Pro models - Microsoft® Windows® XP Professional® ⇒ Disk-to-Disk Recovery
Diskette drive Combo Ultrabay 2000 Disk Display	None standard / use op DVD-ROM/CD-RW / 24 One modular bay for int 40GB8 HS (5400 rpm) of supports 2nd disk with of Some: 14.1" (358.1mm Some: 14.1" (358.1mm	AX/10X/24X/8 terchangeable or 60GB (4200 optional HDD A n) XGA (1024) n) SXGA+ (140	X ²¹ speed / rei e devices (righ) rpm), 9.5mm Adapter in Ultr x768) TFT col 00x1050) TFT	movable from Ultrabay It side) / Ultrabay Plus - / removable / 9.5mm h abay 2000 / HDD Shoo or / Active Matrix / 150 color / Active Matrix /	compatible igh bay / ck Absorber nits	(in hidden Service Partition) Preloaded • Access ThinkPad - Access Connections - Access Help - Access Support • Adobe Acrobat Reader
	All: Easy-open cove ATI® Mobility™ RADE External monitor suppor 75Hz / DDC2B / suppor on either of the optional	ON™ 7500 / A rt via analog D ts external dig	AGP 4X / 16MI DB-15 connect lital monitor via	or / up to 2048x1536x1	6.7M colors at	
Keyboard TrackPoint® Touch pad ThinkLight™	87-key / ThinkPad Butt TrackPoint® pointing de UltraNav multi-pointing Illuminates the keyboar	evice, "Press-t system / touc rd to improve v	to-Select," Inte th pad below k visibility in low	ernet Scroll Bar ¹³ keyboard / Tap Zones		Downloadable IBM Director Agent Software Delivery Assistant System Migration Assistant
Dimensions ³ Approximate weight ² Case material Battery - type Battery - life ¹⁰	12.0" x 9.8" x 1.4"; 304n ² with optical drive and ba Titanium Composite i Lithium Ion 6-cell / intel 2.5 hrs	attery: 5.67 lb n the top and l	os (2.57 kg) bottom covers			Client Security Software License (CD not included) Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client
Architecture Docking Station PC Card Std slots Ports	Intel 845MP chipset / 8 82801CAM ICH3-M I/O Low Pin Count (LPC) in 33MHz (TI® PCI1520 C LPC bus 33MHz (secur Optional ThinkPad Do 2 Type I, 2 Type II, or 1 Two USB (Version 1.1) (4Mbps) / RJ-11 (mode	Controller Huterface, USB ardBus controlity chip; PC87 ck (includes U Type III / Car / 9-pin serial /	ub (ATA-100 E [Bluetooth], F oller, Mini PCI, 7392 Super I/0 Jltrabay 2000 rdBus 32-bit / / parallel / exto	EIDE, PCI bus, etherne irmware Hub) / PCI bu external expansion) / o for diskette, serial, pa and half-size PCI slot) PCMCIA 2.1 ernal DB-15 monitor / i	s 2.2 32-bit, ar, infrared) or Mini Dock nfrared	
Video out Mini PCI 11b Wi-Fi³²/mod Wireless upg³6 CDC Modem Bluetooth™ Ethernet Audio support Security Security chip	S-video out port (TV ou One Mini PCI type III sle Some: Mini PCI 11b W chipset, dual and 56K ⁶ V.90 (V.92 Some: Wireless upgrad One Communications E Some: 56K ⁶ V.90 (V.92 None 10/100 ethernet on mott Soft audio / ICH AC97 (codec / stereo speaker microphone input jack (Power-on password / h IBM Embedded Secur authentication / local fill	of (Communic i-Fi ³² wireless ⁵ tennas in displ -designed ²⁹) ri dable with wire daughter Card -designed ²⁹) n nerboard / Inte controller / Soi s / 1 watt / voli (3.5 mm) / hea ard disk pass ¹ ity Subsyste	cations Bay) / Intel PRO/M Intel PRO/M Iay cover, Wi-I nodem combo eless Mini PCI (CDC) socket nodem in CDC el 82562ETchip undBlaster Pr ume up, dowr adphone jack word / superv Im 2.03 / hard	customer upgradable fireless LAN with Inters i-certified / , Agere® chipset options t / customer accessible C / Agere® chipset opset (physical layer) o™-compatible / AD18 n, mute buttons / interm (3.5 mm) / line in jack (isor password / securitivare key storage / mu	81A AC97 al mic / 3.5 mm) ty keyhole llti-factor	Universal 72 watt AC adapter Asset ID™.34 (system-specific info in chip accessed over network) PC 2001-compliant ACPI 1.0b and 2.0-compliant CIM and DMI 2.0-compliant PXE 2.0-compliant IBM ImageUltra™ Services available IBM Rapid Restore PC available to protect software image and data International Warranty Service¹ 24 hour x 7 day¹ 8 toll-free hardware support during the warranty¹ 2
Limited warranty ¹² Service options	3 years/1 year battery Service upgrades ²² prov from date of ThinkPad p	vide up to five ourchase (inclu	years of onsite uding warranty	e or depot repair servic period)	e coverage	
256 MB PC2100 E 512 MB PC2100 E IBM ThinkPad Ultrabar SuperDisk (LS-24 Zip 250MB Ultrabar 24X-10X° CD-RO Ultralight 8X° Max CD-RW/DVD Con Second HDD Ada ThinkPad Remova IBM USB Portable IBM 11a/b/g Wirel IBM 128MB USB IBM 256MB USB IBM Portable USB	ay 2000 Drive M Ultrabay 2000 Drive I DVD Ultrabay 2000 hbo IV Ultrabay 2000 pter for Ultrabay 2000 able Diskette Drive ess CardBus Adapter 2.0 Memory Key	0 10K0030 0 10K0032 22P5737 22P7337 22P7330 08K9616 00N8253 05K9233 22P9102 22P6901 22P6901 08K6068 08K9603 05K9276 31P9101 12P89025 12P9025 22P5297	2000 media ThinkPad T30 Ultrabay 2000 ThinkPad 72W ThinkPad 72W Multiple Li-Ion. BM High Rate 20GB Hard Dis 40GB HS Hard Dis ThinkPad Port ThinkPad Port ThinkPad Mini ThinkPad Mor ThinkPad Mor ThinkPad Mor ThinkPad Mor ThinkPad Mor ThinkPad Mor ThinkPad Mor ThinkPad Mor ThinkPad Mor ThinkPad Mor ThinkPad Mor ThinkPad Mor ThinkPad Mor ThinkPad Mor	/ AC/DC Combo Adapt //NiMH Battery Charget wireless LAN Mini PC wireless 802.11b Mini sk 9.5mm (4200 rpm) Disk 9.5mm (5400 rpm) Sk 9.5mm (4200 rpm) Replicator Replicator II Dock	19K4480 02K7050 02K6646 02K6699 der 22P9010 02K6719 CI 22P7701 08K9686 m) 08K9816 08K9869 02K8667 74P6733 287810U 263120U 22P5265	ServicePac ^{®, 22} 2yr IOR 9x5 NBD 30L9190 ServicePac 3yr IOR 9x5 NBD 30L9197 ServicePac 4yr IOR 9x5 NBD 69P9198 ServicePac 5yr IOR 9x5 NBD 69P9200 ServicePac 4yr P&L P/U Depot 69P9199 ServicePac 5yr P&L P/U Depot 69P9201 Post-warranty annual maintenance agreements at ibm.com/services/its/us/source/maspspleu.pdf

	Speed	UltraNav™ Mini PCI CDC Ethern Disk touch Comm Bay modem or on	et Preload Small Workhorse (W) Security business or Global (G) Avail			
	ı® 4-M 2.0 256MB 14.1" SXGA+	GB ⁸ Optical pad wireless/modem Bluetooth™ plana 60GB Combo Yes Open (wireless upg³6) Modem 10/1 60GB Combo Yes 11b Wi-Fi³2/modem Bluetoo 10/1	r Chip software model date 00 Yes W2000 None No Aug 2002			
Positioning Processor L2 cache Memory	Mobile Intel® Pentium® 4 Proceenhanced Intel SpeedStep™ to 512KB / on die (at processor speedStep™ to 256MB standard / 1GB max ⁷ /	chnology ¹ and 400MHz frontside bus	SOFTWARE ¹⁴ Windows 2000 models - Microsoft® Windows® 2000 Professional ²⁰ • ConfigSafe® - A Disk to Disk Recovery			
Diskette drive Combo Ultrabay 2000 Disk	DVD-ROM/CD-RW / 16X/10X/ One modular bay for interchan 60GB ⁸ (4200 rpm) 9.5mm high supports 2nd disk with optional	trabay [™] -based or USB-based diskette drive 24X/8X ²¹ speed / removable from Ultrabay 2000 yeable devices (right side) / Ultrabay Plus -compatible not high speed 5400 rpm) / upgradable / S.M.A.R.T. / HDD Adapter in Ultrabay 2000 / HDD Shock Absorber	Disk-to-Disk Recovery (in hidden Service Partition) INCLUDED SOFTWARE ¹⁴ (all) Preloaded Access ThinkPad			
Graphics controller Graphics - external	easy-open cover to unlatch and ATI® Mobility™ RADEON™ 75 External monitor support via an	.00 / AGP 4X / 16MB DDR-SDRAM 364MHz alog DB-15 connector / up to 2048x1536x16.7M colors at al digital monitor ⁵ via the Digital Video Interface (DVI)	Access ThinkPad Access Connections Access Help Access Support Adobe Acrobat Reader IBM Rapid Restore™ PC InterVideo WinDVD (DVD models)			
Keyboard TrackPoint® Touch pad ThinkLight™ Dimensions³	TrackPoint® pointing device, "F Some: UltraNav multi-pointing	n rest / pitch: 19mm; stroke: 2.7mm (std-size keys) ress-to-Select," Internet Scroll Bar¹³ system / touch pad below keyboard / Tap Zones rove visibility in low-light conditions / no UltraPort™	PC-Doctor™ ThinkPad Utilities Veritas RecordNOW (Combo mod) IBM Update Connector™.15 Downloadable			
Approximate weight ² Case material Battery - type Battery - life ¹⁰	with optical drive and battery: Titanium Composite in the to	.33 to 5.67 lbs (2.42 to 2.57 kg) depending on model and bottom covers for enhanced strength supports unique 2nd battery in Ultrabay 2000	IBM Director Agent Software Delivery Assistant System Migration Assistant Client Security Software (models with security chip)			
Docking Station PC Card Std slots Ports	82801CAM ICH3-M I/O Control Low Pin Count (LPC) interface 33MHz (TI® PCI1520 CardBus LPC bus 33MHz (security chinc) Optional ThinkPad Dock (incl 2 Type I, 2 Type II, or 1 Type I Two USB (Version 1.1) / 9-pin	Memory Controller Hub (MCH-M) / Ier Hub (ATA-100 EIDE, PCI bus, ethernet MAC, USB [Bluetooth], Firmware Hub) / PCI bus 2.2 32-bit, controller, Mini PCI, external expansion) / PC87392 Super I/O for diskette, serial, par, infrared) des Ultrabay 2000 and half-size PCI slot) / CardBus 32-bit / PCMCIA 2.1 serial / parallel / external DB-15 monitor / infrared 45 (ethernet) / no keyboard or mouse port (use USB)	License (CD not included) - Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client Ultrabay Plus integrated modular bay supports most Ultrabay 2000 devices including CD-RW/DVD Combo drive, diskette drive, or Zip drive; the optional Ultrabay Plus Device Carrier adds			
Video out Mini PCI 11B Wi-Fi ³² /mod	57U: Mini PČÍ 11b Wi-Fi ³² wi chipset, dual antennas	ndustry standard connector munications Bay) / customer upgradeable ^{4,36} eless ⁴ , Intel PRO/Wireless LAN with Intersil® Prism 2.5 n display cover, Wi-Fi-certified / ed ²⁹) modem combo, Agere® chipset	potential functionality by supporting the Ultrabay Plus Numeric Keypad and Cradle for the WorkPad® c500 Series Universal 72 watt AC adapter Asset ID™.34(system-specific info in			
Wireless upg³6 CDC Modem Bluetooth™ Ethernet Audio support	56U: Dual antennas in displa One Communications Daughte 56U: 56K° V.90 (V.92-design 57U: Bluetooth wireless tech 10/100 ethernet on motherboar Soft audio / ICH AC97 controllicodec / stereo speakers / 1 wa microphone input jack (3.5 mn	cover for wireless connectivity Mini PCI options Card (CDC) socket / customer accessible ada ²⁹) modem in CDC / Agere® chipset cology / on CDC / power button on display I/Intel 82562ETchipset (physical layer) r / SoundBlaster Pro™-compatible / AD1881A AC97 t / volume up, down, mute buttons / internal mic / o / headphone jack (3.5 mm) / line in jack (3.5 mm) password / supervisor password / security keyhole	chip accessed over network) PC 2001-compliant ACPI 1.0b and 2.0-compliant CIM and DMI 2.0-compliant PXE 2.0-compliant IBM ImageUltra™ Services available IBM Rapid Restore PC available to protect software image and data International Warranty Service¹7			
Security chip Limited warranty ¹² Service options	IBM Embedded Security Suk authentication / local file encry 3 years/1 year battery - EasyS	system 2.0 ³³ / hardware key storage / multi-factor otion / enhances VPN security 16 / TCPA-compliant erv ^{TM,19} onsite pickup and delivery courier service of five years of onsite or depot repair service coverage	Personalized Web-based support ³¹ Proactive e-mail updates ³¹ 24 hour x 7 day ¹⁸ toll-free hardware support during the warranty ¹²			
256 MB PC2100 E 512 MB PC2100 E IBM ThinkPad Ult ThinkPad Ultraba Zip 250MB Ultraba 24X-10X° CD-RO Ultralight R3° Max CD-RW/DVD Con Second HDD Ada ThinkPad Remova IBM High Rate Wi IBM 11a Wireless IBM Portable USE IBM Portable USE	DR-SDRAM CL2.5 SOD 10K0 DR-SDRAM CL2.5 SOD 10K0 DR-SDRAM CL2.5 SOD 10K0 DR-SDRAM CL2.5 SOD 10K0 rabay Plus Carrier 22P5 y Plus Numeric Keypad 22P7	IBM 128MB USB 2.0 Memory Key 22P8998	ThinkPad Dock 263120U ServicePac® 22 2yr IOR 9x5 NBD 30L9190 ServicePac 3yr IOR 9x5 NBD 30L9197 ServicePac 4yr IOR 9x5 NBD 69P9198 ServicePac 5yr IOR 9x5 NBD 69P9200 ServicePac 4yr P&L P/U Depot 69P9199 ServicePac 5yr P&L P/U Depot 69P9201			

Type-model		Speed GHz		Screen	Disk GB ⁸	_	traNav touch pad		CDC modem or Bluetooth™		Security	Preload	Workhors or Global mode	(Ġ)´	Avai date
2366-B1U Pe 2366-B2U Pe								11b Wi-Fi ³² /mod 11b Wi-Fi/mod		10/100 10/100		indows® XF indows® XF			
This educational model of the ThinkPad T30 notebook must be sold only to qualified education customers. Qualified institution/customer is a public or private K-12 (or higher) accredited school organized and operated exclusively for educational purposes for use by Qualified Students and/or Qualified Teachers.															
								h an Authorized e to any other or							

Positioning	The perfect balance of performance and portability; two-spindle system	SOFTWARE ¹⁴
Processor	Mobile Intel® Pentium® 4 Processor-M 1.6 or 2.0GHz with enhanced Intel SpeedStep™ technology¹ and 400MHz frontside bus	Windows XP Pro models
L2 cache	512KB / on die (at processor speed) / ĔĆC	- Microsoft® Windows® XP
Memory	256MB standard / 1GB max ⁷ / PC2100 266MHz DDR-SDRAM / non-parity / CL2.5 / two 200-pin SO-DIMM sockets / 256MB in one socket / one socket available	Professional ²⁰ ♦ Disk-to-Disk Recovery
Diskette drive Combo	None standard / use optional Ultrabay TM -based or USB-based diskette drive <i>B1U:</i> DVD-ROM/CD-RW / 8X/8X/24X/8X ²¹ speed / removable from Ultrabay 2000; <i>B2U:</i> DVD-ROM/CD-RW / 16X/10X/24X/8X ²¹ speed / removable from Ultrabay 2000	(in hidden Service Partition) INCLUDED SOFTWARE ¹⁴ (all)
Ultrabay 2000 Disk	One modular bay for interchangeable devices (right side)/Ultrabay Plus-compatible B1U: 40GB* 4200 rpm; B2U: 40GB high-speed (HS) 5400 rpm All: removable and upgradable / 9.5mm high bay / S.M.A.R.T. / supports 2nd disk with optional HDD Adapter in Ultrabay 2000 / HDD Shock Absorber	Preloaded • Access ThinkPad - Access Connections - Access Help
Display	14.1" (358.1mm) XGA (1024x768) TFT color / Active Matrix / 150 nits easy-open cover to unlatch and open with one hand (two latches)	Access Support Adobe Acrobat Reader Adobe Acrobat Reader
Graphics controller Graphics - external	ATI® Mobility™ RADEON™ 7500 / AGP 4X / 16MB DDR-SDRAM 364MHz External monitor support via analog DB-15 connector / up to 2048x1536x16.7M colors at 75Hz / DDC2B / supports external digital monitor via the Digital Video Interface (DVI) port on either of the optional docking solutions	InterVideo WinDVD IBM Rapid Restore™ PC PC-Doctor™ ThinkPad Utilities Veritas RecordNOW
Keyboard TrackPoint® Touch pad ThinkLight™	87-key / ThinkPad Button / palm rest / pitch: 19mm; stroke: 2.7mm (std-size keys) TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³ UltraNav multi-pointing system / touch pad below keyboard / Tap Zones Illuminates the keyboard to improve visibility in low-light conditions / no UltraPort™	IBM Update Connector™.15 Downloadable IBM Director Agent Software Delivery Assistant
Dimensions ³ Approximate weight ² Case material Battery - type Battery - life ¹⁰	12.0" x 9.8" x 1.4"; 304mm x 250mm x 36.6mm with optical drive and battery: B1U: 5.4 lbs (2.43kg); B2U: 5.5 lbs (2.5kg) Titanium Composite in the top and bottom covers for enhanced strength Lithium Ion 6-cell / intelligent / supports unique 2nd battery in Ultrabay 2000 2.5 hrs	System Migration Assistant IBM Client Security Software (for security chip) License (CD not included) Lotus® SmartSuite® Millennium and
Architecture	Intel 845MP chipset / 82845MP Memory Controller Hub (MCH-M) / 82801CAM ICH3-M I/O Controller Hub (ATA-100 EIDE, PCI bus, ethernet MAC, Low Pin Count (LPC) interface, USB [Bluetooth], Firmware Hub) / PCI bus 2.2 32-bit, 33MHz (TI® PCI1520 CardBus controller, Mini PCI, external expansion) / LPC bus 33MHz (PC87392 Super I/O for diskette, serial, par, infrared)	Lotus Notes® Stand-alone Client
Docking Station PC Card Std slots Ports	Optional ThinkPad Dock (includes Ultrabay 2000 and half-size PCI slot) 2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 Two USB (Version 1.1) / 9-pin serial / parallel / external DB-15 monitor / infrared (4Mbps) / RJ-11 (modem) / RJ-45 (ethernet) / no keyboard or mouse port (use USB)	Ultrabay Plus integrated modular bay supports most Ultrabay 2000 devices including CD-RW/DVD Combo drive, diskette drive, or Zip drive; the optional
Video out Mini PCI 11b Wi-Fi ³² /mod	chipset, dual antennas in display cover, Wi-Fi-certified /	Ultrabay Plus Device Carrier adds potential functionality by supporting the Ultrabay Plus Numeric Keypad and Cradle for the WorkPad® c500 Series
CDC Modem Bluetooth™	56K ⁶ V.90 (V.92-designed ²⁹) modem combo, Agere® chipset One Communications Daughter Card (CDC) socket / customer accessible One Communications Daughter Card (CDC) socket open None	Universal 72 watt AC adapter Asset ID™.34 (system-specific info in chip accessed over network)
Ethernet Audio support	10/100 ethernet on motherboard / Intel 82562ETchipset (physical layer) Soft audio / ICH AC97 controller / SoundBlaster Pro™-compatible / AD1881A AC97 codec / stereo speakers / 1 watt / volume up, down, mute buttons / internal mic / microphone input jack (3.5 mm) / headphone jack (3.5 mm) / line in jack (3.5 mm)	PC 2001-compliant ACPI 1.0b and 2.0-compliant PXE 2.0-compliant IBM ImageUltra [™] Services available
Security Security chip	Power-on password / hard disk password / supervisor password / security keyhole B2U: IBM Embedded Security Subsystem 2.0 ³³ / hardware key storage / multi- factor authentication / local file encryption / enhances VPN security ¹⁶ / TCG-compliant	IBM Rapid Restore PC available to protect software image and data International Warranty Service ¹⁷
Limited warranty ¹² Service options	3 years/1 year battery - EasyServ™.19 onsite pickup and delivery courier service Service upgrades²2 provide up to five years of onsite or depot repair service coverage from date of ThinkPad purchase (including warranty period)	24 hour x 7 day ¹⁸ toll-free hardware support during the warranty ¹² ThinkPad Port Replicator 02K8667
256 MB PC2100 D	DR-SDRAM CL2.5 SOD 10K0028 Travel Bezel for Ultrabay 2000 08K6070 DR-SDRAM CL2.5 SOD 10K0030 ThinkPad Removable Diskette Drive 08K9603 Portable Drive Bay 2000 (accepts Ultrabay 2000 Portable Drive Bay 2000 (accepts Ultrabay 2000 Portable Drive Bay 2000 (accepts Ultrabay 2000 Portable Drive Bay	ThinkPad Dock 263120U IBM 11a/b/g Wireless CardBus Adapter 31P9101

2000 media and storage devices)
ThinkPad T30 Series Li-lon Battery
Ultrabay 2000 Li-lon battery
ThinkPad 72W AC Adapter
ThinkPad 72W AC/DC Combo Adapter
Multiple Li-lon/NiMH Battery Charger
20GB Hard Disk 9.5mm (4200 rpm) IBM ThinkPad Ultrabay Plus Carrier 22P5737 19K4480 ThinkPad Ultrabay Plus Numeric Keypad SuperDisk (LS-240) UltraBay 2000 Zip 250MB Ultrabay 2000 Drive 24X-10X CD-ROM Ultrabay 2000 Drive 02K7050 02K6646 22P7330 08K9616 00N8253 02K6699 22P9010 05K9233 22P9102 22P6991 Ultralight 8X Max DVD Ultrabay 2000 CD-RW/DVD Combo IV Ultrabay 2000 02K6719 08K9686 08K9816 Second HDD Adapter for Ultrabay 2000 08K6068 40GB HS Hard Disk 9.5mm (5400 rpm) 80GB Hard Disk 9.5mm (4200 rpm) 08K9869 Other options at ibm.com/pc/us/accessories

IBM 11a/b/g Wireless CardBus Adapter 31P9101 ServicePac®.22 2yr IOR 9x5 NBD 30L9190 ServicePac 3yr IOR 9x5 NBD 30L9197 ServicePac 5yr P&L P/U Depot 69P9201

Other ServicePac options at ibm.com/services/its/us/source/wamomxeu.pdf

				Mini DOI	000 54	Dettern Weekleres (M)
Type-model Proces	Speed sor GHz Memory Screen	Graphics Disk controller GB ⁸	Optical		modem/ Bluetooth™ pl	nernet Battery Workhorse (W) on Security cells or Global (G) Ava lanar chip Preload model dat
2373-14U Pentium 2373-12U Pentium 2373-72U Pentium 2373-75U Pentium 2373-85U Pentium 2373-85U Pentium 2373-8DU Pentium 2373-8DU Pentium 2373-19U Pentium 2373-91U Pentium 2373-91U Pentium 2373-94U Pentium 2373-94U Pentium 2373-96U Pentium 2373-96U Pentium 2373-96U Pentium 2373-96U Pentium 2373-96U Pentium 2373-96U Pentium	1º M1.3 256MB 14.1" SXG/ 1M 1.3 256MB 14.1" XGA 1M 1.3 256MB 14.1" XGA 1M 1.5 256MB 14.1" XGA 1M 1.5 256MB 14.1" XGA 1M 1.5 256MB 14.1" XGA 1M 1.5 256MB 14.1" XGA 1M 1.5 256MB 14.1" XGA 1M 1.5 256MB 14.1" XGA 1M 1.5 256MB 14.1" XGA 1M 1.5 256MB 14.1" XGA 1M 1.5 256MB 14.1" XGA 1M 1.6 512MB 14.1" SXG/ 1M 1.6 512MB 14.1" SXG/	7500 30G 7500 40HS 7500 40HS 7500 40HS 7500 40HS 7500 40HS 7500 40HS 7500 40HS 7500 40HS 7500 30G A+ 9000 80G A+ 9000 80G A+ 9000 80G	DVD Op Combo Op Combo Vint Combo Cis DVD *Int DVD Cis DVD Op DVD Op DVD *Int Combo *Int Combo *Int Combo Cis Combo *Int Combo Cis	oen; wireless upg a/b Wi-Fi ²⁷ el 11b Wi-Fi sco 802.11b	Modem 10 Modem 10 Modem Gi Modem Gi Modem Gi Modem Gi Modem Gi Modem Gi Modem Gi Modem 10	igabit Yes 9 XP Pro Mar 2000
Positioning Processor	Perfect balance of performation of Pentium Merces			le system		SOFTWARE ¹⁴
L2 cache Memory Diskette drive DVD Combo Ultrabay Slim	enhanced Intel SpeedStep 1MB / on die (at processor 256 or 512MB standard / 2 CL2.5 / two 200-pin SO-DI None standard / use option Some: DVD-ROM / 24X-8 Some: DVD-ROM/CD-RW One modular bay for interc	[™] technology¹ ar speed) / ECC GB max² / PC21 MM sockets / std ial USB-based di X8 speed / bootal //16X/10X/24X/ hangeable devic	nd 400MHz from the second of t	DDR-SDRAM / no socket / one sock le from Ultrabay TM removable from U) / 9.5mm high bay	et available Slim Itrabay Slim	Windows XP Pro models - Microsoft® Windows® XP Professional²
Disk	30GB ⁸ (4200 rpm), 40GB I upgradable / 9.5mm bay / s IBM Integrated HDD Shock	upports 2nd disk				 Adobe Acrobat Reader IBM Rapid Restore™ PC
Display	Some: 14.1" (358.1mm) X Some: 14.1" (358.1mm) S	GA (1024x768) 1				Veritas RecordNOW (combo mdls) InterVideo WinDVD Norton AntiVirus (OEM edition)
Graphics controller	Some: ATI® Mobility RAD	DEON® 7500 / AG	SP 4X / 32ME	DDR-SDRAM		 PC-Doctor™ ThinkPad Utilities IBM Update Connector™.15
Graphics - external	External monitor support vi					- Downloadable
Keyboard TrackPoint® Touch pad ThinkLight™	87-key / Access IBM butto TrackPoint® pointing devic UltraNav™ multi-pointing s Illuminates the keyboard to	e, "Press-to-Sele ystem / touch pa improve visibilit	ect," Internet S d below keyb y in low-light o	Scroll Bar ¹³ , magr oard / Tap Zones conditions	nifying glass /	IBM Director Agent Software Delivery Assistant System Migration Assistant Client Security Software
Case material Battery - type	6-cell models (WxDxH): 12 9-cell models (WxDxH): 12 with optical drive and batte Magnesium composite in t Lithium Ion 6- or 9-cell / inte	2.2" x 10.9" x 1.0- ry: 4.9 lbs (2.22 ne top cover, titar elligent / supports	1.2"; 311mm kg) nium-reinforc s unique 2nd b	x 276.8mm x 26. ed CFRP in botto battery in Ultrabay	6-31.4mm m cover Slim	License (CD not included) - Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client Universal 72 watt AC adapter
PC Card Std slots Ports Video out	6-cell models: 5.5 hr; 9-cell models: 5.5 hr; 9-cell models: 5.5 hr; 9-cell ntel 855PM chipset / 828582801DBM ICH4-M I/O Collow Pin Count (LPC) inter PCI bus 2.2 32-bit, 33MHz LPC bus 33MHz (PC87392 2 Type I, 2 Type II, or 1 Ty Two USB (Version 2.0) / pr. RJ-11 (modem) / RJ-45 (eliminates of the state o	55PM Memory Controller Hub (AT/ face, USB [Blueto (TI® PCI1520 Car 2 Super I/O for inf pe III / CardBus 3 arallel / external I thernet) / no keyb	ontroller Hub A-100 EIDE, ooth]) / rdBus control frared, paralle 32-bit / PCMC DB-15 monito ooard or mou	(MCH-M) / PCI bus, etherned ller, Mini PCI, ext e el [docking-based DIA 2.1 or / infrared (4Mbp se or serial ports	t MAC, expansion) / I ports])	Asset ID™.34 (system-specific info in chip accessed over network) PC 2001-compliant ACPI 1.0b and 2.0-compliant CIM and DMI 2.0-compliant PXE 2.0-compliant IBM ImageUltra™ Services available IBM Rapid Restore PC available to protect software image and data International Warranty Service¹7
Wireless antenna Mini PCI Wireless upg³6 11b Wi-Fi³² Cisco 802.11b³² 11a/b Wi-Fi²7 CDC Modem Bluetooth™ Ethernet Audio support	UltraConnect™ Antenna bu One Mini PCI type III slot (i Some: Wireless upgradab Some: 11b Wi-Fi³² wireless Some: 802.11b wireless⁴, Some: 11a/b Wi-Fi³² wirele One Communications Dau 56K⁴ V.90 (V.92-designed² Some: Bluetooth wireless the Some: 10/100 ethernet on Some: Gigabit ethernet on Soft audio / ICH AC97 con stereo speakers / 1 watt / v	ill into the display Communications le with wireless M s4, Mini PCI, Intel Mini PCI, Cisco® ses4, Mini PCI, Atl gother Card (CDC) modem in CDC echnology / in CE systemboard / Int systemboard / Int systemboard / Introller / DirectSon rolume up, down	cover for opt Bay) / custor ini PCI option PRO/Wireles Aironet® Wire eneros™ AR50 socket / cust i / Agere® chip DC (with mode tel 82540EP c tel 82540EV und® support	imal wireless signmer upgradable is s 2100, Intel 8253 eless 802.11b ionar accessible ionar	ayer) / PXE Y) / PXE	24 hour x 7 day ¹⁸ toll-free warranty support during the warranty ¹² ServicePac ^{®, 22} 2yr IOR 9x5 NBD 30L9190 ServicePac 3yr IOR 9x5 NBD 30L9197 ServicePac 4yr IOR 9x5 NBD 69P9198 ServicePac 5yr IOR 9x5 NBD 69P9200 ServicePac 4yr P&L P/U Depot 69P9199 ServicePac 5yr P&L P/U Depot 69P9199
Security Security chip	microphone input jack (3.5 Power-on password / hard IBM Embedded Security authentication / local file el	disk password / Subsystem 2.0 ³	supervisor pa 3 / hardware l	assword / security key storage / mult	i-factor	ThinkPad Port Replicator II 74P6733 ThinkPad Mini Dock 287810U
Limited warranty ¹²	3 years/1 yr battery - Easy	Serv™,19 onsite p	ickup and del	livery / service up	grades ²² avail	ThinkPad Dock II 287710U 40GB HS Hard Disk 9.5mm (5400 rpn
256MB PC2100 D 512MB PC2100 D 1GB PC2100 DDF IBM USB Portable CD-RW/DVD Com	Diskette Drive 0 nbo II Ultrabay Slim Drive 7	0K0030 T40 Hig 0K0032 Ultraba 0K0034 IBM 11 5K9276 IBM 11 3P3288 Intel PF	gh Capacity L ly Slim Li-Pol a/b/g Wireles a/b/g Wireles RO/Wireless 2	n Battery 6-cell Li-lon Battery 9-ce ymer Battery 3-ce ss CardBus Adapt ss Mini PCI Adapt 2200BG Mini PCI sss 802.11b Mini F	ell 08K8190 er 31P9101 er 31P9701 73P2801	80GB HS Hard Disk 9.5mm (5400 rpm 08K9816 80GB HS Hard Disk 9.5mm (5400 rpm 09N4273 IBM 256MB USB 2.0 Memory Key 22P9025 Other options at ibm.com/pc/us/accessories
	portant warranty information			entrino™ mobile te		(T40) © IBM Corp. July 200

	Speed Graphic	s Disk	Mini PCI Comm Bay	CDC modem/	Ethernet on Se	Small Workhorse (W) ecurity business or Global (G) Avail					
2373-7AU Pentium 2373-8AU Pentium 2373-16U Pentium	sor GHz Memory Screen controlled 1° M 1.5 256MB 14.1" XGA 7500 15 256MB 14.1"	40HS Combo 40HS DVD 30G DVD		J ³⁶ Modem Modem Modem	™ planar n 10/100 n 10/100 n 10/100	chip Preload software model date XP Pro Office SB ²⁸ W Mar 2003 XP Pro Office SB W Mar 2003 2000 Mar 2003 Yes 2000 Mar 2003					
	heet lists models with Office XP S heet lists models with Windows 20		•	P Profession	onal						
Positioning Processor L2 cache Memory	Perfect balance of performance ar Intel® Pentium® M Processor 1.3 enhanced Intel SpeedStep™ tech 1MB / on die (at processor speed) 256MB standard / 2GB max² / PC two 200-pin SO-DIMM sockets / s None standard / use optional USE	or 1.5GHz wit nology¹ and 40 / ECC 2100 266MHz td mem in one	th 00MHz frontside bus z DDR-SDRAM / nor e socket / one socke	n-parity / C		SOFTWARE ¹⁴ Windows XP Pro models - Microsoft® Windows® XP Professional ²⁰ † Disk-to-Disk Recovery (in hidden protected area)					
DVD Combo Ultrabay Slim Disk	Some: DVD-ROM / 24X-8X8 spee Some: DVD-ROM/CD-RW / 16X/ One modular bay for interchanger 30GB8 (4200 rpm) or 40GB HS (5- 9.5mm high bay / supports 2nd dis IBM Integrated HDD Shock Absort	ed / bootable /r 10X/24X/8X ²¹ able devices (r 400 rpm), 9.5m k with optional per	removable from Ultra speed / removable f right side) / 9.5mm high nm high / removable I HDD Adapter in Ulti	rom Ultrat gh bay and upgra rabay Slim	oay Slim dable /	Windows 2000 models - Microsoft® Windows® 2000 Professional²0 • ConfigSafe® ⇒ Disk-to-Disk Recovery (in hidden Service Partition)					
	14.1" (358.1mm) XGA (1024x768 ATI® Mobility RADEON® 7500 / A External monitor support via analogous programments and control of the control o	AGP 4X / 32M	B DDR-SDRAM		at 75Hz	Preloaded(all) • Access IBM - Access Connections					
Keyboard TrackPoint® Touch pad ThinkLight™	87-key / Access IBM button / palr TrackPoint® pointing device, "Pre- UltraNav™ multi-pointing system Illuminates the keyboard to impro	ss-to-Select," / touch pad be ve visibility in l	Internet Scroll Bar ¹³ , low keyboard / Tap 2 ow-light conditions	magnifyir Zones	ng glass /	Adobe Acrobat Reader IBM Rapid Restore™ PC Veritas RecordNOW (combo mdls) InterVideo WinDVD					
Dimensions ³ Approximate weight ² Case material Battery - type Battery - life ¹⁰	6-cell models (WxDxH): 12.2" x 10 with optical drive and battery: 4.9 Magnesium composite in the top thithium Ion 6-cell / intelligent / sup 6-cell models: 5.5 hr; 9-cell High	lbs (2.22 kg) cover, titanium ports unique 2	n-reinforced CFRP in and battery in Ultraba	bottom co		 Norton AntiVirus (OEM edition) PC-Doctor™ ThinkPad Utilities IBM Update Connector™.15 Downloadable 					
Architecture PC Card Std slots Ports	Intel 855PM chipset / 82855PM M 82801DBM ICH4-M I/O Controlle Low Pin Count (LPC) interface, U PCI bus 2.2 32-bit, 33MHz (TI® PC LPC bus 33MHz (PC87392 Super 2 Type I, 2 Type II, or 1 Type III / Two USB (Version 2.0) / parallel / RJ-11 (modem) / RJ-45 (ethernet	Memory Contro r Hub (ATA-10 SB [Bluetooth 11520 CardBu r I/O for infrare CardBus 32-bi external DB-1	oller Hub (MCH-M) / 00 EIDE, PCI bus, etl]) / Is controller, Mini PC d, parallel [docking- it / PCMCIA 2.1 / inte 15 monitor / infrared	hernet MA I, ext expa based por egrated do (4Mbps) /	nsion) / ts]) oor	IBM Director Agent Software Delivery Assistant System Migration Assistant Client Security Software (security chip model) License (CD not included) Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client					
Video out Wireless antenna Mini PCI Wireless upg³6 CDC Modem Bluetooth™ Ethernet	S-video out port (TV out) / one 4-r UltraConnect™ Antenna built into I One Mini PCI type III slot (Commu Wireless upgradable with wireless One Communications Daughter C 56K ⁶ V.90 (V.92-designed ²⁹) mode None Some: 10/100 ethernet on system	the display covunications Bay Mini PCI optio ard (CDC) soc em in CDC / Ag	rer for optimal wireles r) / customer upgrad- ins sket / customer acces gere® chipset	able	·	Office XP Small Business models only (2373-7AU and 8AU) - Microsoft Office XP Small Business²8 (Word, Excel, Outlook, Publisher, Small Business Tools) ♦ Office XP Small Business CD					
Audio support	Some: Gigabit ethernet on system Soft audio / ICH AC97 controller / stereo speakers / 1 watt / volume	nboard / Intel 8: DirectSound®	2540EP chipset (MÁ ° support / AD1981B	.C/PHY)/I AC97 cod	ŻΧΕ	Universal 72 watt AC adapter					
Security Security chip	microphone input jack (3.5 mm; p Power-on password / hard disk po Some: IBM Embedded Security factor authentication / local file en	assword / supe Subsystem 2 cryption / enha	ervisor password / s 2. 0 ³³ / hardware key s ances VPN security	ecurity key storage / n 16 / TCG-co	nulti-	Asset ID™.34 (system-specific info in chip accessed over network) PC 2001-compliant ACPI 1.0b and 2.0-compliant					
Limited warranty ¹² Service options	3 years/1 yr battery - EasyServ™. Service upgrades ²² provide up to coverage from date of ThinkPad p	five years of o	nsite or depot repair	service		CIM and DMI 2.0-compliant PXE 2.0-compliant IBM ImageUltra™ Services available IBM Rapid Restore PC available to					
256MB PC2100 D 512MB PC2100 DD 1GB PC2100 DD IBM USB 2.0 Port IBM USB 2.0 Port IBM USB 2.0 Port CD-RW/DVD Cor ThinkPad DVD-R Second HDD Ada 40GB HS Hard Di 80GB HS Hard Di IBM 4GB Microdr	able Combo Drive able Multi-Burner Drive nbo II Ultrabay Slim Drive OM Ultrabay Slim Drive opter for Ultrabay Slim sk 9.5mm (5400 rpm) sk 9.5mm (5400 rpm) opN427 ive™ with PC Card 22P919 22	0 T40 High C 2 Ultrabay SI 4 ThinkPad A 6 ThinkPad 7 4 ThinkPad 7 3 IBM 11a/b/ 8 IBM 11a/b/ 0 Intel PRO/ 4 Cisco Airo 6 IBM E400 I 3 Kensington 0 ThinkPad I	n® MicroSaver® Secu Port Replicator II	ry 9-cell ry 3-cell rger II Adapter Adapter Adapter ini PCI b Mini PCI rity Cable	31P9101 31P9701 73P2801 31P8301 0038A04 73P2582 74P6733	protect software image and data International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free warranty support during the warranty ¹² via 800-IBM-SERV (426-7378) ServicePac ^{®, 22} 2yr IOR 9x5 NBD 30L9190 ServicePac 3yr IOR 9x5 NBD 30L9197 ServicePac 4yr IOR 9x5 NBD 69P9198 ServicePac 5yr IOR 9x5 NBD					
ThinkPad Carryin	rd with UltraNav 31P895 re Leather Carrying Case 10K020	O ThinkPad [9 ThinkPad N 0 IBM MicroF		Projector		69P9200 ServicePac 4yr P&L P/U Depot 69P9199 ServicePac 5yr P&L P/U Depot 69P9201					

		Mini PCI	CDC Etherr	net Battery Workhorse (W)				
Type-model Proces		ics Disk Comm Bay Iller GB [®] Optical wireless	modem/ on Bluetooth™ plana	Security cells or Global (G) Avail				
2373-2AU Pentium 2373-2CU Pentium 2373-44U Pentium 2373-4CU Pentium 2373-9CU Pentium 2373-3CU Pentium These e schools	 M 1.3 512MB 14.1" XGA 750 M 1.3 512MB 14.1" XGA 750 M 1.5 512MB 14.1" XGA 750 M 1.5 512MB 14.1" XGA 750 M 1.6 512MB 14.1" SXGA+ 900 	r for educational purposes for use b om IBM or through an Authorized E	Modem 10/10 Modem 10/10 Mod/Blue Gigal Modem Gigal public or private k y qualified studen ducation Reseller	00 Yes 6 XP Pro No Mar 2003 00 Yes 6 XP Pro No Mar 2003 00 Yes 6 XP Pro No Mar 2003 00 Yes 6 XP Pro No Mar 2003 00 Yes 6 XP Pro No Mar 2003 00 Yes 6 XP Pro No Jun 2003 01 Yes 6 XP Pro No Jun 2003 01 Yes 6 XP Pro No Jun 2003 01 Yes 6 XP Pro No Jun 2003 03 Yes 6 XP Pro No Jun 2003 05 Yes 6 XP Pro No Jun 2003 06 Yes 6 XP Pro No Jun 2003 06 Yes 6 XP Pro No Mar 2003 07 Yes 6 XP Pro No Mar 2003 08 Yes 6 XP Pro No Mar 2003 08 Yes 6 XP Pro No Mar 2003 09 Yes 6 XP Pro No Mar 2003 09 Yes 6 XP Pro No Mar 2003 00 Yes 6 XP Pro No Mar 2003 00 Yes 6 XP Pro No Mar 2003 00 Yes 6 XP Pro No Mar 2003 00 Yes 6 XP Pro No Mar 2003 00 Yes 6 XP Pro No Mar 2003 00 Yes 6 XP Pro No Mar 2003 00 Yes 6 XP Pro No Mar 2003 00 Yes 6 XP Pro No Mar 2003 00 Yes 6 XP Pro No Mar 2003 00 Yes 6 XP Pro No Mar 2003 00 Yes 6 XP Pro No Mar 2003 00 Yes 6 XP Pro No Mar 2003 00 Yes 6 XP Pro No Mar 2003 00 Yes 6 XP Pro No Mar 2003 00 Yes 6 XP Pro No Mar 2003 00 Yes 6 XP Pro No Mar 2003 00 Yes 6 XP Pro No Mar 2003 00 Yes 6 XP Pro No Mar 2003 00 Yes 6 XP Pro No Jun 2003 00				
Positioning Processor	The perfect balance of performance Intel® Pentium® M Processor 1.3, 1			SOFTWARE ¹⁴				
L2 cache Memory	enhanced Intel SpeedStep™ techno 1MB / on die (at processor speed) / 512MB standard / 2GB max² / PC2 two 200-pin SO-DIMM sockets / sto	ology¹ and 400MHz system bus ECC 100 266MHz DDR-SDRAM / non-p		Windows XP Pro models - Microsoft® Windows® XP Professional ²⁰ ⇒ Disk-to-Disk Recovery				
Diskette drive Combo Ultrabay Slim Disk	None standard / use optional USB-I DVD-ROM/CD-RW / 16X/10X/24X/ One modular bay for interchangeat 40GB ⁸ HS (5400 rpm) or 80GB (420 9.5mm high bay / supports 2nd disk IBM Integrated HDD Shock Absorbe	(8X ²¹ speed / removable from Ultrab ble devices (right side) / 9.5mm high 00 rpm), 9.5mm high / removable an with optional HDD Adapter in Ultrab	báy d upgradable /	(in hidden protected area) Preloaded(all) • Access IBM - Access Connections • Adobe Acrobat Reader • IBM Rapid Restore™ PC				
Display	Some: 14.1" (358.1mm) XGA (102- Some: 14.1" (358.1mm) SXGA+ (1	4x768) TFT color / Active Matrix / 1 400x1050) TFT color / Active Matri	50 nits x / 150 nits	IBM RecordNOW and DLAInterVideo WinDVD				
	Some: ATI® Mobility RADEON® 7: Some: ATI Mobility RADEON 900 External monitor support via analog	500 / AGP 4X / 32MB DDR-SDRAI 00 / AGP 4X / 32MB DDR-SDRAM	M	Norton AntiVirus (OEM edition) PC-Doctor™ ThinkPad Utilities IBM Update Connector™.¹5				
Keyboard TrackPoint® Touch pad ThinkLight™	87-key / Access IBM button / palm TrackPoint® pointing device, "Press UltraNav™ multi-pointing system / t Illuminates the keyboard to improve	s-to-Select," Internet Scroll Bar ¹³ , m ouch pad below keyboard / Tap Zo	agnifying glass /	IBM Opdate Connector Downloadable IBM Director Agent Software Delivery Assistant System Migration Assistant Client Security Software (for security chip) License (CD not included) Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client				
Dimensions ³ Approximate weight ² Case material Battery - type Battery - life ¹⁰	(WxDxH): 12.2" x 10.0" x 1.0-1.2"; 3 with optical drive and battery: 4.9 lc Magnesium composite in the top co Lithium Ion 6-cell / intelligent / supp Up to 4.6 hr; 9-cell High Capacity p	os (2.22 kg) over, carbon fiber reinforced plastic orts unique 2nd battery in Ultrabay S	Slim					
PC Card Std slots Ports	Intel 855PM chipset / 82855PM Me 82801DBM ICH4-M I/O Controller I- Low Pin Count (LPC) interface, USI PCI bus 2.2 32-bit, 33MHz (TI® PCI1 LPC bus 33MHz (PC87392 Super I/ 2 Type I, 2 Type II, or 1 Type III / Ca Two USB (Version 2.0) / parallel / e RJ-11 (modem) / RJ-45 (ethernet) /	Hub (ATA-100 EIDE, PCI bus, ether B [Bluetooth]) / I520 CardBus controller, Mini PCI, e /O for infrared, parallel [docking-ba ardBus 32-bit / PCMCIA 2.1 / integ external DB-15 monitor / infrared (4)	ext expansion) / sed ports]) rated door Mbps) /	Universal 72 watt AC adapter Asset ID ^{TM,34} (system-specific info in				
Video out Wireless antenna Mini PCI 11b Wi-Fi³² 11a/b Wi-Fi²² CDC Modem Bluetooth™ Ethernet	S-video out port (TV out) / one indu UltraConnect™ Antenna built into the One Mini PCI type III slot (Commun Some: 11b Wi-Fi³² wireless⁴, Mini P 802.11b, Intel 82531 chipset Some: 11a/b Wi-Fi²² wireless⁴, Mini One Communications Daughter Car 56K° V.90 (V.92-designed²³) moden Some: Bluetooth wireless technolog Some: 10/100 ethernet on systembe Some: Gigabit ethernet on systembe	stry standard connector e display cover for optimal wireless s ications Bay) / customer upgradab CI, Intel PRO/Wireless 2100 Netwo i PCI, Atheros™ AR5001X chipset rd (CDC) socket / customer accessil n in CDC / Agere® chipset gy / in CDC (with modem) oard / Intel 82562EZ chipset (physic	signal reception le rk Connection ole cal layer) / PXE	chip accessed over network) PC 2001-compliant ACPI 1.0b and 2.0-compliant CIM and DMI 2.0-compliant PXE 2.0-compliant IBM ImageUltra™ Services available IBM Rapid Restore PC available to protect software image and data International Warranty Service ¹⁷ 24 hour x 7 day¹8 toll-free hardware				
Audio support Security	Soft audio / ICH AC97 controller / D stereo speakers / 1 watt / volume u microphone input jack (3.5 mm; pin Power-on password / hard disk pas	DirectSound® support / AD1981B A p, down, mute buttons / internal mi k) / headphone jack (3.5 mm; greer ssword / supervisor password / sec	C97 codec / c / n) urity keyhole	support during the warranty ¹² The Ultrabay Slim supports: • standard or optional CD-RW/DVD combo drive • optional second battery				
Security chip	IBM Embedded Security Subsyst authentication / local file encryption	/ enhances VPN security16 / TCG-c	compliant	optional HDD adapter (for 2nd disk)optional travel bezel				
Limited warranty ¹²	3 years/1 yr battery - EasyServ™.19 DR-SDRAM CL2.5 SOD 10K0028	onsite pickup and delivery / service	upgrades ²² avail	optional travel bezel ServicePac®, 22 2yr IOR 9x5 NBD 30L9190				
256MB PC2100 E 512MB PC2100 DDI 1GB PC2100 DDI IBM USB Portable IBM Portable USE CD-RW/DVD Cor Second HDD Ada 20GB Hard Disk 9 40GB HS Hard Di 80GB Hard Disk 9 IBM 1GB Microdr IBM 256MB USB IBM USB Keyboa	DR-SDRAM CL2.5 SOD 10K0030 DR-SDRAM CL2.5 SOD 10K0032 R-SDRAM CL2.5 SOD 10K0034 Diskette Drive 22P5297 Diskette Drive 22P5297 Diskette Drive 22P5297 Diskette Drive 22P5297 Diskette Drive 22P5297 Diskette Drive 22P5297 Diskette Drive 22P7011 Diskette Drive 22P5297 Diskette D	T40 High Capacity Li-Ion Battery Ultrabay Slim Li-Polymer Battery ThinkPad Multiple Battery Charge ThinkPad 72W AC Adapter ThinkPad 72W AC/DC Combo Ad IBM 11a/b/g Wireless CardBus At IBM 11a/b/g Wireless Mini PCI Ad Intel PRO/Wireless 2100 3B Mini Cisco Aironet Wireless 802.11b M GemPC400 Smart Card Reader/V ThinkPad Port Replicator II ThinkPad Mini Dock ThinkPad Dock II	9-cell 08K8197 3-cell 08K8190 er II 22P9040 02K6699 lapter 22P9010 dapter 31P9701 PCI 31P8001 Mini PCI 31P8301 Vriter 31P8901 74P6733 287810U 287710U	ServicePac 3yr IOR 9x5 NBD 30L9197 ServicePac 4yr IOR 9x5 NBD 69P9198 ServicePac 5yr IOR 9x5 NBD 69P9200 ServicePac 4yr P&L P/U Depot 69P9199 ServicePac 5yr P&L P/U Depot 69P9201 Post-warranty annual maintenance agreements at ibm.com/services/its/us/source/				
	on Travel Wheel Mouse 31P7410	Other options at ibm.com/pc/us/a		maspspleu.pdf				

			Mini PCI	CDC Ethernet		Workhorse (W)			
Type-model Proces	Speed ssor GHz Memory Screen	Graphics Disk controller GB [®] Optical	Comm Bay		ecurity	TAA- or Global (G) Avail			
2373-C3U Pentiur 2373-C4U Pentiur 2373-C7U Pentiur 2373-C8U Pentiur 2373-CAU Pentiur 2373-C1U Pentiur	n®M 1.5 256MB 14.1" XG, nM 1.5 256MB 14.1" XG, nM 1.3 256MB 14.1" XG, nM 1.5 256MB 14.1" XG, nM 1.5 256MB 14.1" XG, nM 1.3 256MB 14.1" XG, Act Agreement (TAA)-com	A 7500 40HS Combo A 7500 40HS Combo A 7500 40HS DVD A 7500 40HS DVD A 7500 40HS DVD A 7500 30G DVD	*Intel 11b Wi-Fi32	Modem Gigabit Modem 10/100 Modem Gigabit	Yes XP Pro Yes XP Pro Yes XP Pro	TAA W Mar 2003 TAA W Mar 2003 TAA W Mar 2003 TAA W Mar 2003 TAA W Mar 2003 TAA W Mar 2003 TAA W Mar 2003			
Positioning TAA-compliant	The perfect balance of per Trade Act Agreement-co		lity; two-spindle system	1		SOFTWARE ¹⁴			
Processor L2 cache Memory	Intel® Pentium® M Proces technology¹ and 400MHz 1MB / on die (at processo 256MB standard / 2GB m two 200-pin SO-DIMM so	ssor 1.3 or 1.5GHz wi frontside bus r speed) / ECC ax ⁷ / PC2100 266MH	z DDR-SDRAM / non- _l	parity / CL2.5 /	Windows XP - Microsoft® \ Professiona ⇒ Disk-to-Dis (in hidden p	Windows® XP al ²⁰			
Diskette drive DVD Combo Ultrabay Slim Disk	None standard / use optio Some: DVD-ROM / 24X-{ Some: DVD-ROM/CD-R\ One modular bay for inter 30GB ⁸ (4200 rpm) or 40Gl 9.5mm high bay / supports	3X ⁸ speed / bootable / N / 16X/10X/24X/8X ²¹ changeable devices (3 HS (5400 rpm), 9.5r	removable from Ultrab speed / removable fro right side) / 9.5mm high nm high / removable ar	om Ultrabay Slim n bay nd upgradable /	Professiona • ConfigSafe ⇒ Disk-to-Dis	Windows® 2000 al ²⁰ ®			
Display	14.1" (358.1mm) XGA (10 one latch to unlatch and or		Active Matrix / 150 nits	/	Preloaded(a				
	ATI® Mobility RADEON® External monitor support v 87-key / Access IBM butto TrackPoint® pointing devic UltraNav™ multi-pointing Illuminates the keyboard t	ia analog DB-15 conn on / palm rest / pitch: ce, "Press-to-Select," system / touch pad be	ector / up to 2048x153 19mm; stroke: 2.5mm Internet Scroll Bar¹³, n elow keyboard / Tap Zo	(std-size keys) nagnifying glass /	Access IBM Access Connections Adobe Acrobat Reader IBM Rapid Restore™ PC Veritas RecordNOW (combo mdls) InterVideo WinDVD Norton AntiVirus (OEM edition)				
Dimensions ³ Approximate weight ⁴ Case material Battery - type Battery - life ¹⁰	6-cell models (WxDxH): 1: with optical drive and batte Magnesium composite in Lithium Ion 6-cell / intellige 5.5 hr; 9-cell High Capaci	ery: 4.9 lbs (2.22 kg) the top cover, titaniun ent / supports unique 2 ty plus Ultrabay Slim	n-reinforced CFRP in b 2nd battery in Ultrabay battery: 9.5 hr	oottom cover	PC-Doctor™ ThinkPad Utilities IBM Update Connector™.15 Downloadable IBM Director Agent Software Delivery Assistant System Migration Assistant Client Security Software (security chip models) License (CD not included) Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client				
Architecture PC Card Std slots Ports	Intel 855PM chipset / 828 82801DBM ICH4-M I/O C Low Pin Count (LPC) inte PCI bus 2.2 32-bit, 33MHz LPC bus 33MHz (PC8739 2 Type I, 2 Type II, or 1 Ty Two USB (Version 2.0) / RJ-11 (modem) / RJ-45 (e	ontroller Hub (ATA-10 face, USB [Bluetooth (TI® PCI1520 CardBi 2 Super I/O for infrare pe III / CardBus 32-b arallel / external DB-	00 EIDE, PCI bus, ethe]] / us controller, Mini PCI, ed, parallel [docking-ba it / PCMCIA 2.1 / integ 15 monitor / infrared (4	ext expansion) / ased ports]) grated door !Mbps) /					
Video out Wireless antenna Mini PCI Wireless upg³6 11b Wi-Fi³² Cisco 802.11b CDC Modem Bluetooth™ Ethernet Audio support	S-video out port (TV out) / UltraConnect™ Antenna b One Mini PCI type III slot Some: Wireless upgradat Some: 11b Wi-Fi³2 wireles 802.11b, Intel 8253 Some: 802.11b wireless⁴, One Communications Dat 56K6 V.90 (V.92-designed None standard (optional P Some: 10/100 ethernet or Some: Gigabit ethernet or Soft audio / ICH AC97 cor	uilt into the display con Communications Bay ile with wireless Mini FGI, Intel PROST CONTROLL	ver for optimal wireless y) / customer upgradat o'Cl options D/Wireless 2100 Networet Wireless 802.11bcket / customer access gere® chipset (physicisted of the company of the company of the customer access gere chipset (physicisted of the company of the customer access gere chipset (physicisted of the customer access gere chipset (physicisted of the customer access gere chipset (physicisted of the customer access gere chipset (physicisted of the customer access gere company of the customer acce	ork Connection ible cal layer) / PXE	Asset IDTM-34 (chip access PC 2001-com ACPI 1.0b an CIM and DMI PXE 2.0-com IBM ImageUi IBM Rapid Reprotect soff International 24 hour x 7 da	d 2.0-compliant 2.0-compliant			
Security Security chip	stereo speakers / 1 watt / microphone input jack (3.9 Power-on password / hart Some: IBM Embedded S factor authentication / local	volume up, down, mu 5 mm; pink) / headpho d disk password / sup ecurity Subsystem :	ite buttons / internal m one jack (3.5 mm; gree ervisor password / sec 2.0 ³³ / hardware key st	ic / en) curity keyhole orage / multi-	 standard or combo drive standard D 	VD drive			
256MB PC2100 I 512MB PC2100 I	3 years/1 yr battery - Eas DDR-SDRAM CL2.5 SOD DDR-SDRAM CL2.5 SOD DDR-SDRAM CL2.5 SOD	yServ™.19 onsite picku 10K0028 ThinkPad 10K0030 T40 High 0 10K0032 Ultrabay S		e upgrades ²² avail ell 08K8214 79-cell 08K8197 73-cell 08K8190		DD adapter (for 2nd disk)			
IBM USB Portabl IBM USB 2.0 Por CD-RW/DVD Col Second HDD Ada 20GB Hard Disk 9 40GB HS Hard D 80GB Hard Disk 9 IBM 1GB Microdi IBM 64MB USB 2 IBM 256MB USB IBM USB Keyboa IBM Optical 3-Bu	e Diskette Drive table CD-RW Drive mbo Ultrabay Slim Drive apter for Ultrabay Slim 3.5mm (4200 rpm) isk 9.5mm (5400 rpm) 3.5mm (4200 rpm) ive™ with PC Card0 Memory Key 2.0 Memory Key	05K9276 ThinkPad 22P5297 ThinkPad 22P7011 IBM H Rat 62P4554 IBM 11a W 08K9686 Intel PRO/ 08K9816 Cisco Airo 08K9869 Bluetooth ¹ 07N5574 GemPC40 22P9024 ThinkPad 31P8950 ThinkPad 31P7410 ThinkPad	72W AC Adapter 72W AC/DC Combo A 72W AC/DC Combo A Vireless LAN CardBus Wireless 2100 3B Min net Wireless 802.11b I M PC Card II from IBM O Smart Card Reader/ Port Replicator II Mini Dock	02K6699 dapter 22P9010 ard 128 09N9904 Adaptr 22P7501 i PCI 31P8301 19K5796 Writer 31P8901 74P6733 287810U 287710U 22P5265	ServicePac 3 ServicePac 4 ServicePac 5 ServicePac 4	22 2yr IOR 9x5 NBD 30L9190 yr IOR 9x5 NBD 30L9197 yr IOR 9x5 NBD 69P9198 yr IOR 9x5 NBD 69P9200 yr P&L P/U Depot 69P9199 yr P&L P/U Depot 69P9201			
0 6	portant warranty information		Lby Intol Contrino™ mol		· /T.4.03	TAA\ ⊜ IBM Corp. July 200			

Speed Type-model Processor GHz Memory S	Graphics Disk Screen controller GB ⁸ Optical	Comm Bay modem/	Battery Limited cells Warranty Preload	Avail date
2378-D1U Pentium® M 1.3 256MB 14. 2378-D2U Pentium® M 1.3 256MB 14.			6-cell XP Pro 1 year 6-cell XP Pro 1 year	

• These small and medium business (SMB) models are part of the IBM US Think Express Program

	small and medium business (SMB) models are part of 78 has a 1 year limited warranty (other ThinkPad T40 2						
Positioning	Perfect balance of performance and portability; two-sp.	indle system	SOFTWARE ¹⁴				
Processor	Intel® Pentium® M Processor 1.3GHz with enhanced Intel SpeedStep™ technology¹ and 400MH:	z frontside hus	Windows XP Pro models				
L2 cache	1MB / on die (at processor speed) / ECC		- Microsoft® Windows® XP				
Memory	256MB standard / 2GB max ⁷ / PC2100 266MHz DDR two 200-pin SO-DIMM sockets / std mem in one sock	-SDRAM / non-parity / CL2.5 /	Professional ²⁰				
Diskette drive	None standard / use optional USB-based diskette driv		(in hidden protected area)				
DVD	DVD-ROM / 24X-8X8 speed / bootable /removable fro	m Ultrabay™ Slim	Preloaded(all)				
Ultrabay Slim Disk	One modular bay for interchangeable devices (right si 30GB ⁸ (4200 rpm), 9.5mm high / upgradable and remo	ide) / 9.5mm high bay vable /	Access IBM Access Connections				
2.0.0	9.5mm high bay / supports 2nd disk with optional HDD	Adapter in Ultrabay Slim /	 Adobe Acrobat Reader 				
Dianloss	IBM Integrated HDD Shock Absorber	Motrix / 150 pito /	IBM Rapid Restore™ PC InterVideo WinDVD				
Display	14.1" (358.1mm) XGA (1024x768) TFT color / Active one latch to unlatch and open with one hand	unlatch and open with one hand					
	ATI® Mobility RADEON® 7500 / AGP 4X / 32MB DD External monitor support via analog DB-15 connector /		 PC-Doctor™ ThinkPad Utilities IBM Update Connector™,15 				
Keyboard	87-key / Access IBM button / palm rest / pitch: 19mm	; stroke: 2.5mm (std-size keys)	Downloadable				
TrackPoint® Touch pad	TrackPoint®pointing device, "Press-to-Select," Intern UltraNav™ multi-pointing system / touch pad below ke	et Scroll Bars, magnifying glass / eyboard / Tap Zones	IBM Director Agent Coffing to Pality and Aggistant				
ThinkLight™	Illuminates the keyboard to improve visibility in low-lig	Software Delivery Assistant System Migration Assistant					
Dimensions ³ Approximate weight ²	6-cell models (WxDxH): 12.2" x 10.0" x 1.0-1.2"; 311m with optical drive and battery: 4.9 lbs (2.22 kg)	m x 255mm x 26.6-31.4mm	 Client Security Software (models with 				
Case material	Magnesium composite in the top cover, titanium-reinf		security chip) License (CD not included)				
Battery - type Battery - life ¹⁰		Ion 6-cell / intelligent / supports unique 2nd battery in Ultrabay Slim 5.0 hr; <i>9-cell High Capacity plus Ultrabay Slim battery</i> : 9.5 hr					
Architecture	Intel 855PM chipset / 82855PM Memory Controller H		Lotus Notes® Stand-alone Client				
	82801DBM ICH4-M I/O Controller Hub (ATA-100 EID						
	Low Pin Count (LPC) interface, USB [Bluetooth]) / PCI bus 2.2 32-bit, 33MHz (TI® PCI1520 CardBus con	troller, Mini PCI, ext expansion) /					
PC Card Std slots	LPC bus 33MHz (PC87392 Super I/O for infrared, par	allel [docking-based ports])					
Ports	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PC Two USB (Version 2.0) / parallel / external DB-15 mor						
	RJ-11 (modem) / RJ-45 (ethernet) / no keyboard or m	. , , , , , , , , , , , , , , , , , , ,	Universal 72 watt AC adapter				
Video out Wireless antenna	S-video out port (TV out) / one 4-pin industry standard UltraConnect™ Antenna built into the display cover for		Asset ID ^{TM,34} (system-specific info in chip accessed over network)				
Mini PCI	One Mini PCI type III slot (Communications Bay) / cus	stomer upgradable	PC 2001-compliant				
Wireless upg ³⁶ 11b Wi-Fi ³²	Some: Wireless upgradable with wireless Mini PCI opt Some: 11b Wi-Fi ³² wireless ⁴ , Mini PCI, Intel PRO/Wire	llons lless 2100. Intel 82531 chipset	ACPI 1.0b and 2.0-compliant CIM and DMI 2.0-compliant				
CDC	One Communications Daughter Card (CDC) socket / c	ustomer accessible	PXE2.0-compliant				
Modem Bluetooth™	56K ⁶ V.90 (V.92-designed ²⁹) modem in CDC / Agere® o None	cnipset	IBM ImageUltra™ Services available IBM Rapid Restore PC available to				
Ethernet	Some: 10/100 ethernet on systemboard / Intel 82562E		protect software image and data				
Audio support	Some: Gigabit ethernet on systemboard / Intel 82540E Soft audio / ICH AC97 controller / DirectSound® supp	ort / AD1981B AC97 codec /	International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free hardware				
	stereo speakers / 1 watt / volume up, down, mute but microphone input jack (3.5 mm; pink) / headphone jac	tons / internal mic /	support during the warranty ¹²				
Security	Power-on password / hard disk password / superviso	r password / security keyhole	ServicePac®,22 1yr IOR 9x5 NBD				
Security chip	Some: IBM Embedded Security Subsystem 2.033 / I factor authentication / local file encryption / enhances	nardware key storage / multi-	30L9188 ServicePac 2 yr IOR 9x5 NBD				
Limited warranty ¹²	1 year - EasyServ™,19 onsite pickup and delivery couri	er service	30L9189 ServicePac 3 yr IOR 9x5 NBD				
Service options	Service upgrades ²² provide up to five years of onsite of coverage from date of ThinkPad purchase (including of the coverage from date of ThinkPad purchase)		30L9195 ServicePac 4 yr IOR 9x5 NBD				
	DR-SDRAM CL2.5 SOD 10K0028 ThinkPad T40 Li-	Ion Battery 6-cell 08K8214	30L9194				
		ty Li-Ion Battery 9-cell 08K8197 Polymer Battery 3-cell 08K8190	ServicePac 5 yr IOR 9x5 NBD 30L9196				
1GB PC2100 DDF	-SDRAM CL2.5 SOD 10K0034 ThinkPad Multiple	e Battery Charger II 22P9040	ServicePac 2 yr P&L P/U Depot				
IBM USB Portable		C Adapter 02K6699 C/DC Combo Adapter 22P9010	30L9191 ServicePac 3 yr P&L P/U Depot				
		less CardBus Adapter 31P9101	30L9192 ServicePac 4 yr P&L P/U Depot				
		eless Mini PCI Adapter 31P9701 ss 2100 3B Mini PCI 31P8601	69P9195				
Second HDD Adap 20GB Hard Disk 9		ss 2200BG Mini PCI 73P2801 reless 802.11b Mini PCI 31P8301	ServicePac 5 yr P&L P/U Depot 69P9197				
40GB HS Hard Dis	k 9.5mm (5400 rpm) 08K9816 iLC300 Conf Roo	m Data/Video Projector 0039A03	Other ServicePac options at				
80GB Hard Disk 9. IBM 4GB Microdri		rt Card Reader/Writer 31P8901 eplicator II 74P6733	<pre>ibm.com/services/its/us/source/ wamomxeu.pdf</pre>				
IBM 256MB USB 2	.0 Memory Key 22P9025 ThinkPad Mini Do	ock 287810U	Post-warranty annual maintenance				
	B Space Saver Keybrd 22P5150 ThinkPad Dock II on Travel Wheel Mouse 31P7410 ThinkPad Monitor		agreements at ibm.com/services/its/us/source/				
		bm.com/pc/us/accessories	maspspleu.pdf				
0 () ()	portant warranty information	I Contrina™ mobile technology	(TAOR1) @ IRM Corp. April 2004				

Type-model Proces	Speed ssor GHz Memory Screen	Graphics Disk controller GB® Option	Mini PCI Comm Bay cal wireless	CDC modem/ Bluetooth™		Security cells		nited ranty	Avail date	
2379-D3U Pentiur 2379-D4U Pentiur 2379-D5U Pentiur 2379-D6U Pentiur • These	m [®] M 1.4 256MB 14.1" XGA m M 1.6 256MB 14.1" XGA m M 1.6 512MB 14.1" SXG m M 1.4 256MB 14.1" SXG e small and medium busines 379 has a 3 year limited war	7500 30G Com 7500 40HS Com A+ 9000 80G Com A+ 9000 40HS Com s (SMB) models are p	hbo *Intel 11b Wi-Fi ³ hbo *Intel 11b Wi-Fi hbo 11a/b Wi-Fi ²⁷ hbo *Intel 11b Wi-Fi hart of the IBM US Thi	² Modem Modem Mod/Blue Modem nk Express	10/100 10/100 Gigabi Gigabi Progra i	Yes 6-cell Yes 6-cell Yes 6-cell Yes 6-cell Yes 6-cell	XP Pro 3 XP Pro 3 XP Pro 3	yrs Jun yrs Jun	2003 2003 2003	
	The perfect balance of performers of the perfect balance of performers. The perfect balance of performers of the perform	sor 1.4 or 1.6GHz with technology¹ and 40 speed) / ECC I / 2GB max² / PC2100 MM sockets / std men al USB-based diskett 0X/24X/8X²¹ speed / I hangeable devices (ri S (5400 rpm), or 80G / 9.5mm high bay / onal HDD Adapter in U Absorber GA (1024x768) TFT c KGA+ (1400x1050) Ti EON® 7500 / AGP 4X EON 9000 / AGP 4X	0MHz frontside bus 0 266MHz DDR-SDR. in in one socket / one see drive removable from Ultralight side) / 9.5mm high 6 (4200 rpm), 9.5mm Ultrabay Slim / color / Active Matrix / 1 FT color / Active Matri (/ 32MB DDR-SDRAM 32MB DDR-SDRAM	pay Slim bay high / 50 nits ix / 150 nits	able	Windows XP - Microsoft® \ Professiona Disk-to-Dis (in hidden preloaded(a) - Access Co - Adobe Acro IBM Rapid Veritas Rec InterVideo \ Norton Anti PC-Doctor™ ThinkPad L	Windows®) k Recovery protected an ii) n onnections bbat Reader Restore™ F cordNOW (WinDVD ivirus (OEN M Jtillities	Is (P , rea) C C combo n	,	
Keyboard TrackPoint® Touch pad ThinkLight™ Dimensions³	I support via analog ĎB-15 cc 87-key / Access IBM buttor TrackPoint® pointing device UltraNav™ multi-pointing s Illuminates the keyboard to 6-cell models (WxDxH): 12 with optical drive and batter Magnesium composite in the Lithium Ion 6-cell or 9-cell / 6-cell models: 5.0 hr; Optic Intel 855PM chipset / 8285 82801DBM ICH4-M I/O Co Low Pin Count (LPC) interf PCI bus 2.2 32-bit, 33MHz (LPC bus 33MHz (PC87392 2 Type II, 2 Type II, or 1 Typ Two USB (Version 2.0) / pa RJ-11 (modem) / RJ-45 (et S-video out port (TV out) / o	n / palm rest / pitch: 19. e, "Press-to-Select," liystem / touch pad belimprove visibility in lo. 2" x 10.0" x 1.0-1.2"; y: 4.9 lbs (2.22 kg) ne top cover, titanium-intelligent / supports unal 9-cell: 7.5 hr; 9-cellitroller Hub (ATA-100 ace, USB [Bluetooth]] TI® PCI1520 CardBus Supper I/O for infrarecell I/O cardBus 32-bitarallel / external DB-1! hernet) / no keyboard	9mm; stroke: 2.5mm onternet Scroll Bar ¹³ , mow keyboard / Tap Zo ow-light conditions 311mm x 255mm x 2 Preinforced CFRP in bunique 2nd battery in Leal plus Ultrabay Slim of Borner Hub (MCH-M) / DEIDE, PCI bus, ethe of the controller, Mini PCI, ethical plus Ultrabay Stronger Scontroller, Mini PCI, ethical plus Scontroller, ethical plus Scont	Aggnifying glones 6.6-31.4mm ottom cover Ultrabay Slim battery: 9.5 rnet MAC, ext expansion (seed ports])	ys) ass/ n hr	ThinkPad Utilities IBM Update Connector™.15 Downloadable IBM Director Agent Software Delivery Assistant System Migration Assistant Client Security Software (for security chip) License (CD not included) Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client				
Wireless antenna Mini PCI 11b Wi-Fi³² 11a/b Wi-Fi²² CDC Modem Bluetooth™ Ethernet Audio support Security Security chip	UltraConnect™ Antenna bu One Mini PCI type III slot (¢ Some: 11b Wi-Fi³² wireless 802.11b, Intel 8253 Some: 11a/b Wi-Fi²² wireles Cone Communications Daug 56K° V.90 (V.92-designed²) Some: Bluetooth wireless t Some: 10/100 ethernet on Some: Gigabit ethernet on Soft audio / ICH AC97 cont stereo speakers / 1 watt / v microphone input jack (3.5 Power-on password / hard IBM Embedded Security authentication / local file er	Communications Bay) ⁴ , Mini PCI, Intel PRO, 1 chipset ss4, Mini PCI, Atheros phter Card (CDC) sock) modem in CDC / Age echnology / in CDC (w systemboard / Intel 82 systemboard / Intel 82 roller / DirectSound olume up, down, mut mm; pink) / headphor disk password / supe Subsystem 2.0 33 / ha	/ customer upgradab /Wireless 2100 Netwo /Wireless 2100 Netwo /™ AR5001X chipset ket / customer accessi ere® chipset /ith modem) /562EZ chipset (physic /540EP chipset (MAC/ support / AD1981B A e buttons / internal mi ne jack (3.5 mm; greel /rvisor password / sec /rdware key storage / r	ble cal layer) / P PHY) / PXE C97 codec / c / urity keyhol multi-factor	XE	International 24 hour x 7 da support du	(system-sp sed over no npliant d 2.0-compli 2.0-compli pliant tra™ Service tware imag Warranty S ay¹³ toll-free ring the war	ecific infetwork) pliant ant ees available e and da fervice ¹⁷ e hardwa rranty ¹²	able e to ata are	
256MB PC2100 I 512MB PC2100 ID 1GB PC2100 DD IBM USB Portabl IBM USB 2.0 Por CD-RW/DVD Cor ThinkPad DVD-F Second HDD Ada 20GB Hard Disk 9 40GB HS Hard D 80GB Hard Disk 9 IBM 1GB Microdi IBM 256MB USB IBM TrackPoint L IBM Optical 3-Bu	DDR-SDRAM CL2.5 SOD 1 DDR-SDRAM CL2.5 SOD 1 DDR-SDRAM CL2.5 SOD 1 R-SDRAM CL2.5 SOD 1	0K0028 ThinkPad T 0K0030 T40 High C 0K0032 Ultrabay Sli 0K0034 ThinkPad 7 72P5297 ThinkPad 7 2P7011 IBM 11a/b/ 3P3270 IBM IBM IBM IBM IBM IBM IBM IBM IBM IBM	A40 Li-Ion Battery 6-ce apacity Li-Ion Battery im Li-Polymer Battery Multiple Battery Charge 2W AC Adapter 2W AC/DC Combo Acg Wireless CardBus Acg Wireless Mini PCI Acg Wireless 2100 3B Mini et Wireless 802.11b Moort Replicator II	9-cell 08K 9-cell 08K 3-cell 08K cer II 22P 02K dapter 231P dapter 31P PCI 31P Writer 31P 74P 287 22P rojector 003	8214 8197 9040 6699 9010 9101 9701 8601 8301 8901 6733 810U 710U 5265 7A02	wamomxe Post-warrant agreements	Byr IOR 9x5 byr IOR 9x5 byr IOR 9x5 byr P&L P/L byr P&L P/L ePac option services/its bu.pdf by annual mate services/its	30L 5 NBD 30L 5 NBD 69P 5 NBD 69P J Depot 69P J Depot 69P J Depot 69P J Sat //us/sour	.9190 .9197 .9198 .99200 .99199 .99201 .rce/ .nce	

	Disk Mini PCI CDC	Ethernet Battery Workhorse (W)
Type-model Proces	Speed Graphics GB ⁸ Comm Bay modem/	
2373-G3U Pentium		e Gigabit Yes 9 XP Pro No Mar 2003 e Gigabit Yes 9 XP Pro No Jun 2003 e Gigabit Yes 9 XP Pro No Jun 2003
Positioning Processor	Perfect balance of performance and portability; two-spindle system Intel® Pentium® M Processor 1.6GHz with enhanced Intel SpeedStep™ technology¹ and 400MHz frontside bus	SOFTWARE ¹⁴ Windows XP Pro models
L2 cache Memory	1MB / on die (at processor speed) / ECC 512MB standard / 2GB max ⁷ / PC2100 266MHz DDR-SDRAM / non-parity / CL2.5 / two 200-pin SO-DIMM sockets / standard memory in one socket / one socket availa	able ♦ Disk-to-Disk Recovery
Diskette drive Combo Ultrabay Slim Disk	None standard / use optional USB-based diskette drive DVD-ROM/CD-RW / 16X/10X/24X/8X ²¹ speed / removable from Ultrabay Slim One modular bay for interchangeable devices (right side) / 9.5mm high bay 40GB* HS (5400 rpm) or 60GB Ultra HS (7200 rpm), 9.5mm high / removable and upgradable / 9.5mm high bay / supports 2nd disk with opt HDD Adapter in Ultrabay S IBM Integrated HDD Shock Absorber	 IBM Rapid Restore™ PC
Display	14.1" (358.1mm) SXGA+ (1400x1050) TFT color / Active Matrix / 150 nits / one latch to unlatch and open with one hand	Veritas RecordNOW InterVideo WinDVD
Graphics - external	ATI® Mobility FireGL® 9000 / AGP 4X / 64MB DDR-SDRAM External monitor support via analog DB-15 connector / up to 2048x1536x16.7M at 75	
Keyboard TrackPoint® Touch pad ThinkLight™	87-key / Access IBM button / palm rest / pitch: 19mm; stroke: 2.5mm (std-size keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glassoft dome TrackPoint cap / ships with classic dome and soft rim TrackPoint cap UltraNav™ multi-pointing system / touch pad below keyboard / Tap Zones Illuminates the keyboard to improve visibility in low-light conditions	IBM Update Connector ^{TM.15} Downloadable IBM Director Agent Software Delivery Assistant System Migration Assistant
Case material	9-cell model (WxDxH): 12.2" x 10.9" x 1.0-1.2"; 311mm x 276.8mm x 26.6-31.4mm with optical drive and battery: 4.9 lbs (2.22 kg) Magnesium composite in the top cover, titanium-reinforced carbon fiber reinforced plastic (Ti-CFRP) in bottom cover	Client Security Software License (CD not included) Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client
Battery - type Battery - life ¹⁰	Lithium Ion 9-cell / intelligent / supports unique 2nd battery in Ultrabay Slim 9-cell models: 7.0 hr; 9-cell High Capacity plus Ultrabay Slim battery: 9.0 hr	
Architecture Docking Station PC Card Std slots Ports	Intel 855PM chipset / 82855PM Memory Controller Hub (MCH-M) / 82801DBM ICH4-M I/O Controller Hub (ATA-100 EIDE, PCI bus, ethernet MAC, Low Pin Count (LPC) interface, USB [Bluetooth]) / PCI bus 2.2 32-bit, 33MHz (TI® PCI1520 CardBus controller, Mini PCI, ext expansion) LPC bus 33MHz (PC87392 Super I/O for infrared, parallel [docking-based ports]) Optional Dock II (includes Ultrabay 2000 and half-size PCI slot) or Mini Dock 2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / integrated door Two USB (Version 2.0) / parallel / external DB-15 monitor / infrared (4Mbps) /	
Video out Wireless antenna Mini PCI 11a/b Wi-Fi ²⁷ 11b Wi-Fi ³² CDC Modem Bluetooth™ Ethernet Audio support	RJ-11 (modem) / RJ-45 (ethernet) / no keyboard or mouse or serial ports (use USB S-video out port (TV out) / one 4-pin industry standard connector UltraConnect™ Antenna built into the display cover for optimal wireless signal receptic One Mini PCI type III slot (Communications Bay) / not customer upgradable <i>Some</i> : 11a/b Wi-Fi²² wireless⁴, Mini PCI, Atheros™ AR5001X chipset <i>Some</i> : 11b Wi-Fi³² wireless⁴, Mini PCI, Intel PRO/Wireless 2100, Intel 82531 chipset One Communications Daughter Card (CDC) socket / customer accessible 56K6 V.90 (V.92-designed²³) modem in CDC / Agere® chipset Bluetooth wireless technology / in CDC (with modem) Gigabit ethernet on systemboard / Intel 82540EP chipset (MAC/PHY) / PXE Soft audio / ICH AC97 controller / DirectSound® support / AD1981B AC97 codec / stereo speakers / 1 watt / volume up, down, mute buttons / internal mic / microphone input jack (3.5 mm; pink) / headphone jack (3.5 mm; green) Power-on password / hard disk password / supervisor password / security keyhole	Asset ID ^{TM-34} (system-specific info in chip accessed over network) PC 2001-compliant ACPI 1.0b and 2.0-compliant CIM and DMI 2.0-compliant PXE 2.0-compliant IBM ImageUltra TM Services available IBM Rapid Restore PC available to protect software image and data International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free hardware support during the warranty ¹²
Security chip	IBM Embedded Security Subsystem 2.0 33 / hardware key storage / multi-factor authentication / local file encryption / enhances VPN security 16 / TCG-compliant	The Ultrabay Slim supports: standard or optional CD-RW/DVD combo drive
Limited warranty ¹² Service options	3 years/1 yr battery - EasyServ™.19 onsite pickup and delivery courier service Service upgrades²² provide up to five years of onsite or depot repair service coverage from date of ThinkPad purchase (including warranty period)	standard DVD drive optional second battery optional HDD adapter (for 2nd disk)
256MB PC2100 D 512MB PC2100 DD 1GB PC2100 DDF IBM USB Portable IBM USB 2.0 Porta IBM USB 2.0 Porta IBM USB 2.0 Porta CD-RW/DVD Com Second HDD Adal 40GB HS Hard Disk 9. IBM 4GB Microdri IBM 256MB USB 2 IBM USB Keyboar IBM Optical 3-Butt IBM Optical 3-Butt	able CD-RW Drive able Combo Drive able Multi-Burner Burner able Multi-Burner Burner able Multi-Burner Burner able Multi-Burner Burner able Multi-Burner Burner able Multi-Burner Burner able Multi-Burner Burner able Multi-Burner Burner able Multi-Burner Burner able Multi-Burner able Multi	optional travel bezel ServicePac®.22 2yr IOR 9x5 NBD 30L9190 ServicePac 3yr IOR 9x5 NBD 30L9197 ServicePac 4yr IOR 9x5 NBD 69P9198 ServicePac 5yr IOR 9x5 NBD 69P9200 ServicePac 4yr P&L P/U Depot 69P9199 ServicePac 5yr P&L P/U Depot 69P9201 Post-warranty annual maintenance agreements at

Type-model Proces	Speed sor GHz Memory Scree	Graphics en controlle		Optical	Mini PCI Comm Bay wireless	CDC modem/ Bluetooth™		Security	Battery cells Pre	Limit Warra oad	
2378-DFU Pentiur 2378-DGU Pentiur 2378-DHU Pentiur • These	m [®] M1.4 256MB 14.1" S m M 1.4 256MB 14.1" > m M 1.4 256MB 14.1" > m M 1.4 256MB 14.1" > m M 1.4 256MB 14.1" > small and medium bus 378 has a 1 year limited	GA 7500 GA 7500 GA 7500 I ness (SMB) n	40HS [40HS (40HS (nodels a	DVD Combo Combo are part o		g Modem g Modem Modem Express Pro	Gigabi Gigabi Gigabi <i>ogram</i>	t Yes t Yes t Yes	6 XP 6 XP	Pro 1 y Pro 1 y	r Oct 2003 r Oct 2003 r Oct 2003 r Oct 2003
Graphics - external Keyboard TrackPoint® Touch pad ThinkLight™ Dimensions³	Perfect balance of perfect Intel® Pentium® M Process 1MB / on die (at process 256MB standard / 2GE two 200-pin SO-DIMM None standard / use op Some: DVD-ROM/CD One modular bay for in 30GB® (4200 rpm) or 49.5mm high bay / supple IBM Hard Disk Drive SIBM Active Protection Some: 14.1" (358.1mm Some: 14.1" (358.1mm Some: ATI Mobility R External monitor supple 87-key / Access IBM ClitraNav™ multi-pointilluminates the keyboa (WxDxH): 12.2" x 10.0 with optical drive and b Magnesium composite Lithium lon 6-cell or 9-c6-cell models: 4.7 to 5.	cessor 1.4GH titep™ techno sor speed) / E max² / PC27 sockets / std titional USB-b X-8X® speed, -RW / 16X/10 terchangeabl terchangeabl terchangeabl to system (sha th) XGA (1024 ARADEON® 75 ADEON® 900 rt via analog [utton / palm ri vice, "Press- tord to improve x 1.0-1.2"; 3 attery: DFU/L in the top cov ell / intelligent 0 hr; Optiona. 2855PM Mem Controller Hu	Iz with logy! anicoccolor asset discount of the control of the con	d 400Ml MHz DD one soc skette dr le / rem kX²¹ spec ses (right 9.5mm h onal HDI ection) FT color 0) TFT color 0) TFT color 10 TFT color	r/Active Matrix/150 color / Active Matrix/ 2MB DDR-SDRAM / up to 2048x1536x1 n; stroke: 2.5mm (stonet Scroll Bar ¹³ , mag (seyboard / Tap Zonet) ght conditions x 26.6-31.4mm to (2.2 kg); DEU: 5.0 iforced CFRP in bottle 2nd battery in Ultrabay Slin ub (MCH-M)/ E, PCI bus, ethernet	ilable IM Slim Jilrabay Sli Jilrabay Sli y upgradable / Slim / nits 150 nits 6.7M at 75l d-size keys nifying glass s Ib (2.2kg) om cover abay Slim h battery: 9 MAC,		Microso Profess Disk-to- (in hidd reloade Access Access Access Adobe A IBM Ra IBM Ra Letter A InterVid Norton PC-Doc ThinkPa IBM Upr ownload IBM Dirt Softwar System Colient S security cense (Lotus* S	ixP Pro I ift® Windo ional ional Disk Recen protect d(all) IBM Connecti Acrobat R bid Resto cordNOV ccess (cieo WinD AntiVirus tor date Coni dable ector Age e Deliver Migratior ecurity S chip) CD not in	ons eader re™Ultr V and IB ombo m VD (com (OEM e s nector™ Assista oftware cluded) e® Miller	a M Drive odels) bo mdls) dition)
PC Card Std slots Ports Video out Wireless antenna Mini PCI Wireless upg 36 11b Wi-Fi 32 CDC Modem	Low Pin Count [LPC] in PCI4520A CardBus an (security chip; PC8739. 2 Type II, or Two USB (Version 2.0 RJ-11 (modem) / RJ-4 S-video out port (TV or UltraConnect™ Antenn One Mini PCI type III s Some: wireless upgrac Some: 11b Wi-Fi³² wire 802.11b, Intel 8 One Communications I 56K6 V.90 (V.92-design	d 1394 contro 2 Super I/O fo Type III / Ca / parallel / ex 5 (ethernet) / tt) / one 4-pin a built into the ot (Communi lable with wire less ⁴ , Min PO 2531 chipset Daughter Card	Iler, Minir disketterdBus 3. Atternal Dino keyberindustry display cations I bless Mir CI, Intel F	i PCI, exe, paralle 2-bit / P B-15 moard or y standa cover fo Bay) / cu ni PCI op PRO/Wir socket /	ternal expansion) / Ll el, infrared, [docking- CMCIA 2.1 onitor / infrared (4Mb mouse or serial ports rd connector r optimal wireless sig ustomer upgradable titions eless 2100 Network of customer accessible	PC bus 33M based ports ops) / s (use USB) nal reception	DI AS CI AS IB IB	sset IDTO chip acc C 2001-CPI 1.0b IM and E XE 2.0-co IM Imag IM Rapid protect ternatio 4 hour x	cessed o complian and 2.0- oMI 2.0-c compliant eUltra™ \$	em-spectorer network of the compliant of the compliant of the compliant of the compliant of the compliant of the compliant of the complete of	ific info in vork) nt t available to available to ond data vice ond card
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Display	IBM Hard Disk Drive Shall BM Active Protection S 14.1" (358.1mm) XGA (1 one latch to unlatch and o	ock Absorber / Gystem (shock protection) 024x768) TFT color / Active pen with one hand	ve Matrix / 150 nits /		Adobe Reader IBM Rapid Restore™ Ultra IBM RecordNOW and IBM Drive Letter Access (combo models) InterVideo WinDVD (combo models) Norton AntiVirus (OEM edition)					
Graphics Graphics external Keyboard TrackPoint® Touch pad ThinkLight™	External monitor support 87-key / Access IBM butt TrackPoint® pointing devi UltraNav™ multi-pointing	ON® 7500 / AGP 4X / 32N via analog DB-15 connector on / palm rest / pitch: 19m ce, "Press-to-Select," Inte system / touch pad below to improve visibility in low-	or / up to 2048x1536x16 m; stroke: 2.5mm (std- rnet Scroll Bar ¹³ , magn keyboard / Tap Zones	5.7M at 75Hz -size keys) ifying glass /	PC-Doctor™ ThinkPad Utilities IBM Update Connector™.15 Downloadable IBM Director Agent					
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	with optical drive and bat Magnesium composite in Lithium Ion 6-cell / intellig 4HU/4KU: 4.7 hr; 4JU: 4.	the top cover, titanium-re ent / supports unique 2nd b 9 hr; <i>Optional 9-cell:</i> 7 hr;	nforced CFRP in botto attery in Ultrabay Slim 9-cell plus Ultrabay Sli		Software Delivery Assistant System Migration Assistant Client Security Software (for security chip) License (CD not included) Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client Universal 72 watt AC adapter Asset ID™.34 (system-specific info in chip accessed over network) PC 2001-compliant ACPI 1.0b and 2.0-compliant					
Architecture PC Card Std slots Ports	82801DBM ICH4-M I/O C Low Pin Count [LPC] inte PCI4520A CardBus contr (security chip; PC87392 S 2 Type I, 2 Type II, or 1 T Two USB (Version 2.0) /	i55PM Memory Controller I controller Hub (ATA-100 El rface, USB, [Bluetooth]) / F oller, Mini PCI, external ex Super I/O for diskette, paral ype III / CardBus 32-bit / F parallel / external DB-15 n ethernet) / no keyboard o	DE, PCI bus, ethernet N CI bus 2.2 32-bit, 33MI pansion) / LPC bus 33M lel, infrared, [docking-b PCMCIA 2.1 / integrate nonitor / infrared (4Mbp	Hz (TI® MHz ased ports]) d door os) /						
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Security Security chip	stereo speakers / 1 watt / microphone input jack (3 Power-on password / har IBM Embedded Securit authentication / local file	ntroller / DirectSound® su / volume up, down, mute b .5 mm; pink) / headphone rd disk password / supervi y Subsystem 2.0 ³³ / hardvencryption / Atmel® chip /	uttons / internal mic / lack (3.5 mm; green) sor password / security vare key storage / mult CG-compliant	/ keyhole i-factor	The Ultrabay Slim supports: • standard or optional CD-RW/DVD combo drive • optional DVD drive • optional second battery					
Limited warranty ¹² Service options	Service upgrades ²² provi	syServ ^{™.19} onsite pickup ar de up to five years of onsit inkPad purchase (includin	e or depot repair servi	ice ce	optional HDD adapter (for 2nd disk) optional travel bezel ServicePac®. 22 2yr IOR 9x5 NBD					
256 MB PC2700 ID 512 MB PC2700 ID 1GB PC2700 DD IBM USB 2.0 Con IBM USB 2.0 Port IBM USB 2.0 Mer CD-RW/DVD Cor Multi-Burner Plus Second HDD Ada 40GB HS Hard Di 60GB HS Hard Di 80GB HS Hard Di 1BM 4GB Microdr IBM USB Travel	nbo Drive table Multi-Burner Drive mory Key 512MB mbo II Ultrabay Slim Drive Ultrabay Slim Drive tapter for Ultrabay Slim sk 9.5mm (5400 rpm) sk 9.5mm (5400 rpm) sk 9.5mm (5400 rpm) ive™ with PC Card Keyboard with UltraNav tton Travel Wheel Mouse	31P9830 T40 High Capa 31P9832 Ultrabay Slim I 31P9834 ThinkPad Mult 05K9276 ThinkPad 72W 22P9163 IBM 11a/b/g W 22P9230 IBM 11a/b/g W 73P3288 Intel PRO/Wir 73P3342 IBM M400 Pro 62P4554 IBM C400 Proj 08K9816 IBM C400 Proj 08K9816 IBM C400 Proj 09N4273 ThinkPad Port 09N4280 ThinkPad Mini 31P9490 ThinkPad Mon 31P7410 ThinkPad Mon	/ AC/DC Combo Adapt fireless CardBus Adapt fireless Mini PCI Adptr eless 2200BG Mini PCI ector ector ector mart Card Reader/Write Replicator II Dock	ell 08K8190 22P9040 02K6699 er 22P9010 ter 31P9101 II 73P4301 73P2801 0037A04 0038A04	30L9190 ServicePac 3yr IOR 9x5 NBD 30L9197 ServicePac 4yr IOR 9x5 NBD 69P9198 ServicePac 5yr IOR 9x5 NBD 69P9200 ServicePac 4yr P&L P/U Depot 69P9199 ServicePac 5yr P&L P/U Depot 69P9201 Other ServicePac options at ibm.com/services/its/us/source/ wamomxeu.pdf Post-warranty annual maintenance agreements at ibm.com/services/its/us/source/ maspspleu.pdf					

Type-model Processo	r MHz Memory Screen I	Disk DVD drive	Communications Bay	Preload	Available		
2662-11U Celeron™ 2662-12U Celeron 2662-31U Pentium™ 2662-32U Pentium I 2662-34U Pentium I 2662-35U Pentium I 2662-36U Pentium I 2662-37U Pentium I	500 64MB 12.1" SVGA 1 III 600 128MB 12.1" XGA 2 II 600 128MB 12.1" XGA 2	OGB ⁸ opt via UltraBase™ X2 OGB option via UltraBase X OGB option via UltraBase X	2 or Dock modem	Windows 2000 n Windows 98 SE	Sept 00 Sept 00 Sept 00 Sept 00 Sept 00 Sept 00 Sept 00 Sept 00		
Processor L2 cache Memory Diskette drive	Pentium III: 256KB / onboard of 64MB or 128MB standard / 320 100 / 3.3v / one 144-pin SO-DIN available on 64MB models; soc None standard / 3.5" 1.44MB in	Hz with Intel SpeedStep™ t fat processor speed) / ECC at processor speed) / ECC MB maximum² / SDRAM / no MM socket / 64MB on system ket occupied by 64MB SO-DI tegrated in optional UltraBase	echnology and - Micro Editio Think n-parity / 100MHz / PC board / 1 socket MM in 128MB models EX2 media slice - Micro Editio Think Think I Easy Confii	:Pad Utilities :Pad Assistant™ Keys Utility gSafe® Jpdate Connector™. ss ThinkPad II	Second		
CD or DVD-ROM UltraBay™ 2000 Disk Display	None standard / optional CD or Modular bay for interchangeabl optional UltraBase X2 media sli 10GB ⁸ or 20GB / user upgrade 12.1" (308mm) SVGA (800x60 12.1" (308mm) XGA (1024x768	e devices / support for UltraB ce or ThinkPad Dock able / S.M.A.R.T. / ATA-66 D) TFT color / Active Matrix /	ay™ 2000 devices in Syste - Lotus Lotus 4 Softw ♦ Disk-	octor™ emSoft Card Wizard s SmartSuite Millenn i Notes Client 5.0 lic vare Selections CD- to-Disk Recovery (ir in Service Partition)	ium and ense ROM		
Graphics controller Graphics - external Keyboard ThinkLight™	ATI™ Rage™ Mobility M / AGP External SVGA to 1024x768x16 ThinkPad Button / palm rest / Illuminates the keyboard to imp	2X / 4MB SGRAM / DDC2B .7 million colors at 75Hz and up TrackPoint®, Press-to-Select,	to 1600x1200 W Internet Scroll Bar - Micro	INDOWS 2000 PRE	ELOAD ¹⁴		
UltraPort™ Dimensions³ Travel weight² Case material Battery - type Battery - life¹ Architecture	UltraPort connector on top of di 11U/12U: 11" x 8.9" x .94"-1.1"	splay for options such as digit; 279mm x 227mm x 23.8-27; 279mm x 227mm x 24.9-30 Others: 3.5 lbs cover for enhanced strength telligent Others: Lithium lo Others: 3.8 hrs IX4M (EIDE with Ultra DMA/30h® R5C476II CardBus contr	• Think • Think • Easy • Confii • IBM U • Accei • PC-D • Syste - Lotus Lotus	Professional ThinkPad Utilities ThinkPad Assistant Easy Keys Utility ConfigSafe IBM Update Connector Access ThinkPad II PC-Doctor SystemSoft Card Wizard Lotus SmartSuite Millennium and Lotus Notes Client 5.0 license Software Selections CD-ROM			
Port replicator Docking Station Compact Flash slot PC Card Std slot Ports	PCI 2.1 / 32-bit / 33MHz (EIDĚ, PC97338 Super I/O / ISA (diske Optional ThinkPad Port Replic Optional ThinkPad Dock (inclu Compact Flash slot / 1 CF+ Ty One Type II / CardBus 32-bit / F Two USB (Version 1.1) / extern RJ-45 (ethernet) / no serial, par	otte, serial, parallel, infrared, e ator des Ultrabay 2000 and half-s pe II / supports optional IBM CMCIA 2.1 / no Zoomed Vid al DB-15 monitor / RJ-11 (mo	cpansion) / ext exp) ize PCI slot) Microdrive eo dem) / Left bay most Ul	to-Disk Recovery (in Service Partition) RABASE X2 MEDIA OPTION of UltraBase X2 sultrabay 2000 options all CD-ROM or CD-I	A SLICE		
Video out Communicatns Bay Modem Ethernet/modem	Some models: IBM 10/100 Eth	PCI modem card / Lucent® cl ernet Mini PCI Adapter with 5 t / 3Com modem chip set)	esible nip set 6K Modem (3Com 56K Modem / Intel 56K Modem / Intel	 optional DVD drive optional LS-120 SuperDisk drive optional Zip 250MB drive optional HDD adapter; for second 			
Audio support Security	PCI audio / SoundBlaster Pro™mono speaker / 0.5 watt / voluminput jack (3.5 mm) / output jack Power-on password / dual hard	e up, down, mute buttons / int ((3.5 mm) / line in jack	ernal microphone / wrd / security keyhole Other fe				
Limited warranty ¹² Service options ²²	3 year - EasyServ™.19 onsite pic Optional service upgrades prov coverage from date of ThinkPac	ide up to three years of onsite I purchase (including warrant	e or depot repair service y period) • secur • Seria • Keyb	o speakers (1 watt) rity keyhole, UltraBas I and parallel ports oard and mouse port			
56K Modem by 3Cc -IBM 10/100 EtherJo 56K Modem Ultrabay 2000 intercl -8X9-3X DVD Ultraba -2X SuperDisk (LS-1 -24X-10X CD-ROM -4X/4X/20X CD-Rea -Zip 250MB Ultrabay -Portable Drive Bay Wireless connectivit -IBM High Rate Wire	et Mini PCI Adapter with 19K5887 hangeable accessories ay 2000 Drive 20) UltraBay 2000 UltraBay 2000 Drive 2000 Drive 2000 Drive 2000 Drive 2000 Drive 2000 0000 19K4480 y eless LAN PC Card 9085NA2	- 10GB HDD - 20GB HDD - 32GB HDD ²³ - Second HDD Adapter for U - 1GB Microdrive - UltraBase X2 media slice - ThinkPad Port Replicator - ThinkPad Dock - ThinkPad X Series Battery - Li-lon Multiple Battery Cha - ThinkPad 72W AC Adapte - ThinkPad Monitor Stand - IBM UltraPort Camera II - Multi-Port USB Hub	20L0255 P C 99-6 P	AC Adapter compliant d DMI 2.0 compliant d DMI 2.0 compliant or Management 2.0 nd remote asset material with the IBM Universign and the IBM Universign and the IBM Universign and the IBM Universign and IBM Universign and IBM Universign and IBM University sold and IBM University STAR compliant Guide, User's Refere lows OS manual alized Web-based stional Warranty Sent StemXtra 2.20 r x 7 day 18 toll-free hort during the warra	nage sal ovides gement vols ence, upport vice 17 ardware		

Type-model Processo	r MHz	Memory	Screen	Disk	CD or DVD drive	Comm Bay	Preload	Available
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Processor		lobile Po z system		00MHz	with Intel SpeedStep™ technolo	gy and	WINDOWS 98 PREL	
L2 cache Memory	256KB / 64MB o 100MHz 64MB o	/ onboard r 128MB z / PC 10 r 128MB	d (at processo standard / 32 0 / 3.3v / one on systembo	20MB o 144-pii ard / 1	r 384MB maximum ⁷ / SDRAM / no n SO-DIMM socket / socket available		Microsoft® Windows® 98 Edition Some: Microsoft Office 2 Business (Word, Excel, I Publisher, Small Busines	2000 Small Outlook,
Diskette drive CD or DVD-ROM UltraBay™ 2000 Disk	None sta Modular optional	andard / r bay for i l UltraBa	optional CD o interchangeal se X2 media s	or DVD- ble dev slice or	ted in optional UltraBase X2 media ROM removable from optional Ult ices / support for UltraBay™ 2000 ThinkPad Dock S.M.A.R.T. / ATA-66	raBase X2	 ThinkPad Utilities ThinkPad Assistant™ Universal Manageability ConfigSafe® 	Srvs (web)
Display	12.1 " (3	08mm) \$	SVGA (800x6	00) TF	T color / Active Matrix / 125 nits o	r	IBM Update Connector™ Access ThinkPad II	,,13
Graphics - external	ATI™ Ra Externa	age™ Mo ISVGA to	obility M / AG o 1024x768x1	iP 2X / 6.7 mill	Color / Active Matrix / 150 nits MB SGRAM / DDC2B ion colors at 75Hz and up to 1600x1		PC-Doctor™ SystemSoft Card Wizard Lotus SmartSuite Millenr Lotus Notes Client 5.0 lice	nium and cense
Keyboard ThinkLight™ UltraPort™	ThinkPa Illumina	ad Button tes the k	n / palm rest / eyboard to im	TrackP prove v	Series / pitch: 18.5mm / stroke: 2. oint®, "Press-to-Select," Internet S risibility in low-light conditions for options such as digital UltraPo	Scroll Bar	 Some: Office 2000 Smal Disk-to-Disk Recovery (in hidden Service Partition) 	n
Dimensions ³ Travel weight ² Case material Battery - type Battery - life ¹⁰	4xx: 3. Titaniui	11" x 8. 1 lbs m Comp :hium lon	.9" x .98"-1.2"	; 279m op cove gent	m x 227mm x 23.8-27.9mm m x 227mm x 24.9-30.5mm <i>Others</i> : 3.5 lbs r for enhanced strength ⁴ <i>Others</i> : Lithium Ion 6-cell / in <i>Others</i> : 4.8 hrs	telligent	 WINDOWS 2000 PRI Microsoft Windows 2000 Professional Some: Microsoft Office 2 Small Business²⁸)
Architecture	Intel 44 support, Compac PCI 2.1	0ZXM A 6, ISA Brid ot Flash / / 32-bit /	GPset / Intel I dge, USB) / R / AGP 2X for o 33MHz (EIDE	PIIX4M icoh® R graphic E, Card	(EIDE with Ultra DMA/33 or PIO N 5C476II CardBus controller for PO	C Card and	 ThinkPad Utilities ThinkPad Assistant Universal Manageability ConfigSafe IBM Update Connector 	Srvs (web)
Port replicator Media slice Docking Station Compact Flash slot PC Card Std slot Ports	Optiona Optiona Optiona Compa One Typ Two US RJ-45 (e	I ThinkP I UltraBa I ThinkP ct Flash be II / Ca B (Versionathernet)	ad Port Replase X2 media ad Dock (inc. slot / 1 CF+ rdBus 32-bit / on 1.1) / exter	e [™]	 Access ThinkPad II PC-Doctor SystemSoft Card Wizard Lotus SmartSuite Millennium and Lotus Notes Client 5.0 license Some: Office 2000 Small Bus CD Some: Office XP Small Bus CD Disk-to-Disk Recovery (in hidden Service Partition) 			
Video out Communicatns Bay Modem Ethernet/modem	Some: Some:	56K ⁶ V.9 IBM 10/	90 Mini PCI m	odem o Mini PO	llb slot / customer accessible card / Lucent® chip set Cl Adapter with 56K Modem (3Con dem chip set)	n	ULTRABASE X2 MEDI OPTION	
Audio support	Some: PCI aud mono sp input jac	Intel PR 56K mod lio / Sour beaker / 0 k (3.5 m	O/100 SP Mo dem / Intel 82 ndBlaster Pro 0.5 watt / volu ım) / output ja	bile Co 550EY ™ supp me up, ck (3.5	mbo Adapter / Mini PCI ethernet v ethernet chipset / Lucent modem ort / CS4281 with CS4297A AC97 down, mute buttons / internal micr mm) / line in jack password / supervisor pwrd / secu	chipset codec/ ophone/	Left bay of UltraBase X2 sumost Ultrabay 2000 options optional CD-ROM, CD-R DVD-ROM, LS-120 Supe Zip 250MB, CD-RW/DVD optional HDD adapter; fo	w, W, erDisk, O Combo
Security Limited warranty*,12 Service options ²²	Optiona	l service	upgrades pro	ovidė ur	nd delivery courier service to to three years of onsite or depot hase (including warranty period)	repair service	 UltraBase X2 right bay confidence of the standard diskette drive (removable) 	
Communication Bay - IBM 10/100 Ether Jo 56K Modem by 3Cd - Intel Pro/100 SP Mi 56K modem Ultrabay 2000 interc	et Mini Po om ini PCI A	CI Adapt dapter w	er with 09N977 vith 06P380	- 64 - 12 74 - 25 - 10 01 - 20 - 32	MB SO DIMM 100MHz NP SDRAI 8MB SO DIMM 100MHz NP SDRAI 6MB SO DIMM 100MHz NP SDRAI GB HDD GB HDD GB HDD ²³	AM 20L0255 AM 33L3069 08K9510 27L3439 08K9511	Other features stereo speakers (1 watt) security keyhole, UltraBa Serial and parallel ports Keyboard / mouse port	se lock
- 8X ⁹ -3X DVD Ultraba - 2X SuperDisk (LS-1 - 24X-10X CD-ROM - 8X/4X/24X CD-RW - Zip 250MB Ultrabay - Portable Drive Bay - CD-RW/DVD Comb Wireless connectivit - IBM H Rate Wireles	ay 2000 I 20) Ultra Ultrabay Ultrabay 72000 Dr 2000 oo Ultraba y ss LAN F	Drive aBay 200 2000 Dri 2000 rive ay 2000 I	27L344 0 27L345 ive 05K923 08K956 00N825 19K448 Drive 08K957	8 - Se 1 - 10 3 - Uli 9 - Th 33 - Er 50 - Th - Ch - Th - Th - Th	econd HDD Adapter for Ultrabay 20 àB Microdrive traBase X2 media slice iinkPad Port Replicator ihanced ThinkPad Dock iinkPad X Series Battery (6-cell) Ion Multiple Battery Charger iinkPad 72W AC Adapter inkPad Monitor Stand 2001 M UltraPort Camera II	00 08K6068 07N5574 08N1180 02K8667 263120U 02K6651 02K6643 02K6649 22P5265 04P6135	72 watt AC Adapter PC 99-compliant CIM and DMI 2.0-compliar Wired for Management (W Local and remote asset ma ment via the IBM Univer Manageability solutions IBM PC Lifecycle Care ²¹ Personalized Web-baseds	fM) 2.0 anage sal support
- IBM H R Wireless I - Bluetooth™ PC Car * For a copy of IBM's S	rd		09N981	2 - US - Pc	ulti-Port USB Hub SB Portable Diskette Drive ortable DVD-ROM Drive	00N8215 05K9276 22P5282	International Warranty Ser 24 hour x 7 day ¹⁸ toll-free h support during the warra s are expressed or implied in	nardware inty

^{*} For a copy of IBM's Statement of Limited Warranty, call 1-800-772-2227 US model announced August 7, 2001; others on March 20, 2001 US models withdrawn effective November 2001 or January 2001

Type-model Processor MHz Memory Screen Disk Optical Comm Bay ethernet Chip Preload software Global model date		Mini PCI CDC Security	Small business Workhorse or Avail
2662-249.b. Pentium		ssor MHz Memory Screen Disk Optical CommBay ethernet Chip Preloa	nd software Global model date
S822-9AU Penthum III B00 128MB 12.11 XGA 2058 None Modern 10/100 Windows XP Pro W C1 2001 Penthum III B00 128MB 12.11 XGA 2058 None Modern 10/100 Windows XP Pro W C1 2001 Penthum III B00 128MB 12.11 XGA 2058 None Modern 10/100 Windows XP Pro W C1 2001 Penthum III B00 128MB 12.11 XGA 2058 None Windows XP Pro W C1 2001 Penthum III B00 128MB 12.11 XGA 2058 None Windows XP Pro W C1 2001 Penthum III B00 128MB 12.11 XGA 2058 None Windows XP Pro W C1 2001 Penthum III B00 128MB 12.11 XGA 2058 None Windows XP Pro W C1 2001 Penthum III B00 128MB 12.11 XGA 2058 None Windows XP Pro W C1 2001 Penthum III B00 128MB 12.11 XGA 2058 None Windows XP Pro W C1 2001 Penthum III B00 128MB 12.11 XGA 2058 None Windows XP Pro W C1 2001 Penthum III B00 128MB 12.11 XGA 2058 None Windows XP Pro W C1 2001 Penthum III B00 128MB 12.11 XGA 2058 None Windows XP Pro W C1 2001 Penthum III B00 128MB 12.11 XGA 2058 None Windows XP Pro W C1 2001 Penthum III B00 128MB 12.11 XGA 2058 None Windows XP Pro W C1 2001 Penthum III B00 128MB 12.11 XGA 2058 None Windows XP Pro W C1 2001 Penthum III B00 128MB 12.11 XGA 2058 None Windows XP Pro W C1 2001 Penthum III B00 128MB 12.11 XGA 2058 None Windows XP Pro W C1 2001 Penthum III B00 128MB 12.11 XGA 2058 None Windows XP Pro W C1 2001 Penthum III B00 128MB 12.11 XGA 2058 None Windows XP Pro W C1 2001 Penthum III B00 128MB 12.11 XGA 2058 None Windows XP Pro W C1 2001 Penthum III B00 128MB 12.11 XGA 2058 None Windows XP Pro W C1 2001 Penthum III B00 128MB 12.11 XGA 2058 None Windows XP Pro W C1 2001 Penthum III B00 128MB 12.11 XGA 2058 None Windows XP Pro	2662-9MU Pentiu 2662-9NU Pentiu	m®III 800 128MB 12.17XGA 20GB®None Modem 10/100 Windows MIII 800 128MB 12.17XGA 20GB None Modem 10/100 Windows	2000 Office XP SB Oct 2001
2682-98-10	2662-9BU Pentiu 2662-9AU Pentiu	mIII 800 128MB 12.1"XGA 20GB None Modem 10/100 Windows mIII 800 128MB 12.1"XGA 20GB None Modem Windows	XP Pro W Oct 2001 XP Pro W Oct 2001
Sebbes 19 Centum III (1971) 1981 1991 1991 1991 1991 1991 1991 19	2662-9EU Pentiu	m III 800 128MB 12.1" XGA 20GB None Wi-Fi ³² /mod 10/100 Windows	
S828-3-01 Bentum III 80 128MB 12; "XSA 2008 None Modern 10/100 Yes Windows 2000 W Cd-2201 2002-2002-2002-2002-2002-2002-2002	2662-8BU Pentiu	m III 733 128MB 12.1" XGA 10GB None Modem 10/100 Windows	XP Pro Oct 2001
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Processor Mobile Intel® Pentium* III Processor-M 733 or 900MHz zorthside bus STRXB / or did (a) processor space() / 100			
Liceache S12KB / on die (at processor speed) / ECC S18MB or (36MB att / 46MB max/ / 50PAM / non-parity / 133MHz / PC 133 / 3. you will see the speed of the processor speed) / ECC S18MB or (36MB att / 46MB max/ / 50PAM / non-parity / 133MHz / PC 133 / 3. you will see the speed of the processor speed) / ECC S18MB non-parity / 128MB or (36MB att / 128MB non-parity / 128MB or (36MB att / 128MB non-parity / 128MB non-parit		Mobile Intel® Pentium® III Processor-M 733 or 800MHz with	
Memory 128MB or 256MB sitd; 640MB max! / 50PAM / non-partly / 133MHz / PC / 133 / 3 / 3 / not 144-jin SO-DIMM socker! 2128MB integrated in optional Utrafase x 22 media sice 100 most standard; 0.5°1.44MB integrated in optional Utrafase x 22 media sice 100 most standard; 0.5°1.44MB integrated in optional Utrafase x 22 media sice 100 most standard; 0.5°1.44MB integrated in optional Utrafase x 22 media sice 100 most standard; 0.5°1.44MB integrated in optional Utrafase x 22 media sice 100 most standard; 0.5°1.44MB integrated in optional Utrafase x 22 media sice 100 most standard; 0.5°1.44MB integrated in optional Utrafase x 22 media sice 100 most standard; 0.5°1.44MB integrated 100 most standard; 0.5°1.44MB integrated 100 most standard; 0.5°1.45MB;	L2 cache		- Microsoft® Windows® XP Professional
Disket drive On Chromostandard (3.51) 44MB Integrated in optional Ultrabage X2 media sites Windows 2000 models Windows 2000 devices in optional Ultrabase X2 media sites On Standard (2016) 4200 pm / user upgradeable (5. MA.R.T. 7.47 Ar. 100 On Carphisos control of ATI" Rage" Mobility RADEON M6 / ADP ATA 1-100 On Carphisos external External monitor to 1024x768 with 16.7 million colors at 100Hz and up to 1600x1200 Standard-sizes "Keys 97 97's size of 1 Sareias / Seks yy 1.18.5 mm pitch; 2.5mm stoke / ThinkPad Button / paim rest / TrackPoint; "Press-to-Select, Internet Scrotl Bar Illuminates the keyboard to Immediate Meyboard to Immed		128MB or 256MB std / 640MB max [†] / SDRAM / non-parity / 133MHz / PC 133 / 3.3v /	
CD or DVD-ROM None standard / optional optical drive removable from optional UltraBase X2 puppors Ultrabay 2000 devices in optional Ultrabase X2 media slice or ThinkFad Dock 1008P or 2008 1 / 2020 ppm / user upgradeable / S.M.A.R.T. / ATA-100	Diskette drive	· · · · · · · · · · · · · · · · · · ·	,
Disk 10GB* or 20GB /4200 rpm / user upgradeable / S.M.A.R.T. / Arta-100 Polipsiay 12.1* (30Bmm) XGA (1024x768) HTC 1000 / Active Matrix / 150 mits	CD or DVD-ROM	None standard / optional optical drive removable from optional UltraBase X2	
Display 12,1" (308mm) XGA (1024x768) TFL color / Active Matrix / 150 nits Carphics controller ATIP Raper Mobility RapDom Me/ Age X/8 MBD DDR-SpiPAM / DDC2B Carphics - external Carphics			
Graphics - external External monitor to 1024x788 with 16.7 million colors at 100Hz and up to 1600x1200 Feloaded ThinkLight" UltraPort on LitraPort		1 1 9	
Preladed Preladed			INCLUDED SOFTWARE ¹⁴ (all)
ThinkLighti** UltraPort** ThinkPad Button / jalm rest / TrackPoint**, "Press-o-Select," Internet Scroll Bar Illuminates the keyboard to improve visibility in low-light conditions UltraPort** Travelweight* Case material Battery - Npe Batt		•	Preloaded
UltraPort or connector on top of display for options such as digital UltraPort Camera	Reyboard		
Dimensions! Travelweighf? Case material Battery -type Bat			- Access Help
Travellweight ² Case-material Battery - tipe. Set 1 (1.54kg); 9Ex/9Dx: 3.7 lbs (1.68kg); 0thers: 1.5 linkpad Utilities Disvaled Battery - tipe. Set 1 (1.5kg); 9Ex/9Dx: 3.7 lbs (1.68kg); 0thers: 1.5 linkpad Utilities Disvaled Battery - tipe. Set 1 (1.5kg); 9Ex/9Dx: 3.7 lbs (1.68kg); 0thers: 1.5 linkpad Utilities Disvaled Battery - tipe. Set 2 (1.5kg); 9Ex/9Dx: 3.7 lbs (1.68kg); 0thers: 1.5 linkpad Utilities Disvaled Battery - tipe. Set 2 (1.5kg); 9Ex/9Dx: 3.7 lbs; 9Ex 1 (1.5kg); 9Ex/9Dx: 3.7 lbs; 9Ex 1 (1.5kg);			
Battery - type Batte	Travel weight ²	with battery: 8xx: 3.4 lbs (1.54kg); 9Ex/9Dx: 3.7 lbs (1.68kg); Others: 3.6 lbs(1.64kg)	
Battery - Iffer® 8xx : 2.7 hrs; 802.11b models: 4.4 hrs; Modem only: 5.0 hrs; Others: 4.6 hrs			
82801CAM ICH3-M I/O Controller Hub (ATA-100/66 EIDE, PCI bus, Low Pin Count (LPC) interface, USB [Bluetooth)] / Interface (Jeck) Bluetooth)] Interface (Jeck) Bluetooth) / Inter			
(LPC) Interface, USB [Bluetooth]) / Intel 82802AC Firmware Hub / PCI bus 2.2 32-bit, (Rioch *RSC4*f8ll CardBus controller, Mini PCI, ext expansion) / LPC bus 33MHz (PC87391 Super I/O for infrared [dock-based diskette, serial, parallel]) Optional ThinkPad Pot Replicator Optional UltraBase X2 media slice (see right side) Optional UltraBase X2 media slice (see right side) Optional UltraBase X2 media slice (see right side) Optional UltraBase X2 media slice (see right side) Optional UltraBase X2 media slice (see right side) Optional UltraBase X2 media slice (see right side) Optional UltraBase X2 media slice (see right side) Optional UltraBase X2 media slice (see right side) Optional UltraBase X2 media slice (see right side) Optional UltraBase X2 media slice (see right side) Optional UltraBase X2 media slice (see right side) Optional UltraBase X2 media slice (see right side) Optional UltraBase X2 media slice (see right side) Optional UltraBase X2 media slice (see right side) Optional UltraBase X2 media slice (see right side) Optional Service optional UltraBase X2 media slice (see right side) Optional Service optional UltraBase X2 media slice (see right side) Optional Service optional UltraBase X2 media slice (see right side) Optional Service optional UltraBase X2 media slice (see right side) Optional Service optional UltraBase X2 media slice (see right side) Optional Service optional UltraBase X2 media slice (see right side) Optional Service optional Service optional UltraBase X2 media slice (see right side) Optional Service upgrades provide up to three years of onsite or depot repair service Optional Service upgrades provide up to three years of onsite or depot repair service Optional Service upgrades provide up to three years of onsite or depot repair service Optional Service upgrades provide up to three years of onsite or depot repair service Optional Service upgrades provide up to three years of onsite or depot repair service Optional Service upgrades provide up to three years of onsite or depot repair service op	Architecture	Intel 830MP chipset / 82830MP Graphics Memory Controller Hub (GMCH-M) / 82801CAM ICH3-M I/O Controller Hub (ATA-100/66 FIDE PCI bus Low Pin Count	Universal Manageability Services™ IBM Undata Connector™
Portreplicator Media slice Optional ThinkPad Port Replicator Optional ThinkPad Port Replicator Optional ThinkPad Port Replicator Optional ThinkPad Port Replicator Optional ThinkPad Port Replicator Optional ThinkPad Dock (includes Ultrabay 2000 and half-size PCI slot) Optional ThinkPad Dock (includes Ultrabay 2000 and half-size PCI slot) Optional ThinkPad Dock (includes Ultrabay 2000 and half-size PCI slot) Optional ThinkPad Dock (includes Ultrabay 2000 and half-size PCI slot) Optional ThinkPad Dock (includes Ultrabay 2000 and half-size PCI slot) Optional ThinkPad Dock (includes Ultrabay 2000 and half-size PCI slot) Optional ThinkPad Dock (includes Ultrabay 2000 interchangeable optional Ultrabay 2000 Prize Slot) Optional Service and ThinkPad Poor Replicator Ports Some: Short		(LPC) interface, USB [Bluetooth]) / Intel 82802AC Firmware Hub / PCI bus 2.2 32-bit,	
Optional ThinkPad Port Replicator Optional UltraBase X2 media silice (see right side) Optional ThinkPad Dock (includes Ultrabay 2000 and half-size PCI slot) Optional ThinkPad Dock (includes Ultrabay 2000 Docking Station Compact Flash slot Port Solot (Includes Ultrabay 2000 and half-size PCI slot) Optional ThinkPad Dock (includes Ultrabay 2000 Dropact Flash slot Port Solot Solot Port Solot Sol			
Optional ThinkPad Dock (includes Ultrabay 2000 and half-size PCI slot) Optional ThinkPad Dock (includes Ultrabay 2000 and half-size PCI slot) Optional ThinkPad Dock (includes Ultrabay 2000 and half-size PCI slot) Optional ThinkPad Dock (includes Ultrabay 2000 and half-size PCI slot) Optional ThinkPad Dock (includes Ultrabay 2000 and half-size PCI slot) Optional ThinkPad Dock (includes Ultrabay 2000 and half-size PCI slot) Optional ThinkPad Dock (includes Ultrabay 2000 and half-size PCI slot) Optional ThinkPad Dock (includes Ultrabay 2000 and half-size PCI slot) Optional ThinkPad Dock (includes Ultrabay 2000 and half-size PCI slot) Optional ThinkPad Dock (includes Ultrabay 2000 and half-size PCI slot) Optional ThinkPad Dock (includes Ultrabay 2000 and half-size PCI slot) Optional ThinkPad Dock (includes Ultrabay 2000 and half-size PCI slot) Optional ThinkPad Dock (includes Ultrabay 2000 and half-size PCI slot) Optional ThinkPad Dock (includes Ultrabay 2000 and half-size PCI slot) Optional ThinkPad Dock (includes Ultrabay 2000 and half-size PCI slot) Optional ThinkPad Dock (includes Ultrabay 2000 and half-size PCI slot) Optional ThinkPad Dock (includes Ultrabay 2000 and half-size PCI slot) Optional ThinkPad Dock (includes Ultrabay 2000 and half-size PCI slot) Optional ThinkPad Dock (includes Ultrabay 2000 and half-size PCI slot) Optional ThinkPad Dock (including warranty period) Lotus Powers in Including warranty period ultrabay 2000 and increase (including warranty period) Lotus Powers in Including warranty period ultrabay 2000 and increase including warranty period ultrabay 2000 and increase including warranty period ultrabay 2000 and including warranty period ultrabay 2000 and increase including warranty period ultrabay 2000 and increase including warranty period ultrabay 2000 and increase including warranty period ultrabay 2000 and increase including warranty period ultrabay 2000 and including warranty period ultrabay 2000 and increase including warranty period ultrabay 2000 and increase including warranty		Optional ThinkPad Port Replicator	
Docking Station Compact Flash slot / 1 CF+ Type II / Supports optional IBM Microdrive™ Compact Flash slot variety in / Exercise variety in / Exercise variety in / Exercise variety in / Exercise variety in / Exercise variety in / Exercise variety in / Exercise variety in / Exercise variety in / Exercise variety in / Exercise variety in / Exercise variety in / Exercise variety in / Exercise variety / Exercise	Media slice	Optional UltraBase X2 media slice (see right side) Optional ThinkPad Dock (includes Ultrabay 2000 and half-size PCI slot)	
PC Card Std slot Ports Some: RJ-45 (ethernet) / no serial, parallel, keyboard, or mouse ports Video out Mini PCI One Mini PCI Illa slot (Communications Bay) / customer upgradeable CDC One Communications Daughter Card (CDC) socket / not customer accessible Modem Some: 56k° V.90 (V.92-designed**) Mini PCI modem card / Lucent** chipset Ethernet Audio support Audio support SoundBlaster Pro**-compatible / CS4299 AC97 codec / mono speaker / 0.5 watt / volume up, down, mute buttons / input jack (3.5 mm) / output jack (3.5 mm) / inie in jack Security Security chip Security chip Service options** Service opt	Docking Station	Compact Flash slot / 1 CF+ Type II / supports optional IBM Microdrive™	
Some: RJ-45 (ethernet) / no serial, parallel, keyboard, or mouse ports			
Min PCI One Min PCI Illa slot (Communications Bay) / customer upgradeable One Communications Daughter Card (CDC) socket / not customer accessible One Communications Daughter Card (CDC) socket / not customer accessible Some: 56K* V.90 (V.92-designed**) Min PCI modem card / Lucent* chip set Ui-Fi²/modem Some: Min PCI Wi-Fi²² wireless*, Intersil® Prism 2.5 chipset, diversity antennas in display cover, Wi-Fi-certified / 56K* V.90 (W.92-designed**) Min PCI modem card / Lucent* chipset Some: 10/100 ethernet on Communications Daughter Card / Intel® 82562ET chipset Some: 10/100 ethernet on Communications Daughter Card / Intel® 82562ET chipset Some: 10/100 ethernet on Communications Daughter Card / Intel® 82562ET chipset Some: 10/100 ethernet on Communications Daughter Card / Intel® 82562ET chipset Some: 10/100 ethernet on Communications Daughter Card / Intel® 82562ET chipset Some: 10/100 ethernet on Communications Daughter Card / Intel® 82562ET chipset Some: 10/100 ethernet on Communications Daughter Card / Intel® 82562ET chipset Some: 10/100 ethernet on Communications Daughter Card / Intel® 82562ET chipset Some: 10/100 ethernet on Communications Daughter Card / Intel® 82562ET chipset Some: 10/100 ethernet on Communications Daughter Card / Intel® 82562ET chipset Some: 10/100 ethernet on Communications Daughter Card / Intel® 82562ET chipset Some: 10/100 ethernet on Communications Daughter Card / Intel® 82562ET chipset Some: 10/100 ethernet on Communications Daughter Card / Intel® 82562ET chipset Some: 10/100 ethernet on Communications Daughter Card / Intel® 82562ET chipset Some: 10/100 ethernet Card / Intel® 82562ET chipset Some: 10/100 ethernet Card / Intel® 82562ET chipset Some: 10/100 ethernet Card / Intel® 82562ET chipset Some: 10/100 ethernet Card / Intel® 82562ET chipset Some: 10/100 ethernet Card / Intel® 82562ET chipset Some: 10/100 ethernet Card / Intel® 82562ET chipset Some: 10/100 ethernet Card / Intel® 82562ET chipset Some: 10/100 ethernet Card / Intel® 82562ET chipset Some: 10/100 ethernet Card / Intel® 825			Business ²⁸ (Word, Excel, Outlook,
One Communications Daughter Card (CDC) socket / not customer accessible Modem Some: 56K° v.90 (v.92-designed®) Mini PCI modem card / Lucent® chip set display cover, Wi-Fi²® wireless®, Intersi® Prism 2.5 chipset, diversity antennas in display cover, Wi-Fi-certified / 56K° v.90²® modem combo, Lucent® chipset Some: 10/100 ethernet on Communications Daughter Card / Intel® 2562ET chipset Audio support SoundBlaster Pro™-compatible / CS4299 AC97 codec / mono speaker / 0.5 watt / volume up, down, mute buttons / internal microphone / input jack (3.5 mm) / output jack (3.5 mm) / line in jack Security Security Chip Some: IBM Embedded Security Subsystem® / hardware key storage / multi-factor authentication / local file encryption / enhances VPN security is 2 years/1 year battery - Easy Serv™s on site pickup and delivery courier service Optional service upgrades provide up to three years of onsite or depot repair service coverage from date of ThinkPad purchase (including warranty period) 64 MB SO DIMM 133MHz NP SDRAM 133MHz NP SDRAM 122M SO DIMM 133MHz NP SDRAM 19K4652 1512MB SO DIMM 133MHz NP SDRAM 19K4654 USB Portable Diskette Drive 19crotable Diskette Drive 19crotable Diskette Drive 19crotable DVD-ROM Drive 24x-10x CD-ROM Ultrabay 2000 Drive 24x-10x CD-ROM Ultrabay 2000 Drive 24x-10x CD-ROM Ultrabay 2000 Drive 24x-10x CD-ROM Ultrabay 2000 Drive 24x-10x CD-ROM Ultrabay 2000 Ultrabay 2000 Ultrabay 2000 Trive 24x-10x CD-ROM Ultrabay 2000 Drive 24x-10x CD-ROM Ultrabay 2000 Ultrabay 2000 Trive 19crotable Diskette Drive 19crotable Diskette Drive 250MB Ultrabay 2000 Drive 270-250MB Ultrabay 2000 Drive 270-250MB Ultrabay 2000 Ultrabay			♦ Office XP Small Business CD
Some: Mini PCI Wi-Fi²² wireless' Intersil® Prism 2.5 chipset, diversity antennas in display cover, Wi-Fi²² wireless' Intersil® Prism 2.5 chipset, diversity antennas in display cover, Wi-Fi²² wireless' Intersil® Prism 2.5 chipset, diversity antennas in display cover, Wi-Fi²² wireless' Intersil® Prism 2.5 chipset, diversity antennas in display cover, Wi-Fi²² wireless' Intersil® Prism 2.5 chipset, diversity antennas in display cover, Wi-Fi²² wireless' Intersil® Prism 2.5 chipset, display and cover and the state of the st	CDC	One Communications Daughter Card (CDC) socket / not customer accessible	
thermet Some: 10/100 ethermet on Communications Daughter Card /Intel® 82562ET chipset Some: 10/100 ethermet on Communications Daughter Card /Intel® 82562ET chipset SoundBlaster Pro™-compatible / CS4299 AC97 codec / mono speaker / 0.5 watt / volume up, down, mute buttons / internal microphone / input jack (3.5 mm) / output jack (3.5 mm) / line in jack Security Some: IBM Embedded Security Subsystem³³ / hardware key storage / multi-factor authentication / local file encryption / enhances VPN security is Service options²² Service o			
Audio support SoundBlaster Pro™-compatible / CS4299 AC97 codec / mono speaker / 0.5 watt / volume up, down, mute buttons / internal microphone / input jack (3.5 mm) / output jack (3.5 mm) / inie in jack Security chip Security chip Security chip Service options²²² Service options²²² Service options²²² Service options²²² Service options²²² Audio support Some: IBM Embedded Security Subsystem³/ hardware key storage / multi-factor authentication / local file encryption / enhances VPN security¹³ Service options²²² Service options²² Service options² Service opt		display cover, Wi-Fi-certified / 56K ⁶ V.90 ²⁹ modem combo, Lucent® chipset	
mono speaker / 0.5 watt /volume up, down, mute buttons / internal microphone / input jack (3.5 mm) / output jack (3.5 mm) / output jack (3.5 mm) / line in jack Security Security chip Security chip Limited warranty¹² Service options²² Service options²² Optional service upgrades provide up to three years of onsite or depot repair service coverage from date of ThinkPad purchase (including warranty period) Service Service options²² Optional service upgrades provide up to three years of onsite or depot repair service coverage from date of ThinkPad purchase (including warranty period) Service Optional Service upgrades provide up to three years of onsite or depot repair service coverage from date of ThinkPad purchase (including warranty period) Service Optional Service upgrades provide up to three years of onsite or depot repair service coverage from date of ThinkPad purchase (including warranty period) Security Subsystem³³ / hardware key storage / multi-factor authentication / local file encryption / enhances VPN security response in the provide up to three years of onsite or depot repair service coverage from date of ThinkPad purchase (including warranty period) Service Optional Service upgrades provide up to three years of onsite or depot repair service coverage from date of ThinkPad purchase (including warranty period) Other features Stereo speakers (1 watt) Security keyhole Other features Stereo speakers (1 watt) Security keyhole, UltraBase lock Servical parallel ports Keyboard/mouse port Servical parallel ports Multiple Li-lon/NiMH Battery Charger ThinkPad Dock ThinkPad Dock ThinkPad Dock ThinkPad Dock ThinkPad AZ0 Series Li-lon Battery (6-cell) OZK6651 OZK6651 OZK6651 OZK6671 OZK66651 OZK6679 OZK6791 OZK66891 IlturaPort Camera II UltraPort Camera II UltraPort Camera II OZK6791 OZK66891			
Security chip Security chip Some: IBM Embedded Security Subsystem33 / hardware key storage / multi-factor authentication / local file encryption / enhances VPN security! Limited warranty 2 service options22	, taalo oapport	mono speaker / 0.5 watt / volume up, down, mute buttons / internal microphone /	Zip 250MB, CD-RW/DVD Combo
Security chip Some: IBM Embedded Security Subsystem3 hardware key storage / multi-factor authentication / local fille encryption / enhances VPN security¹6	Security	Power-on password / dual hard disk password / supervisor pwrd / security keyhole	
Limited warranty¹² Service options²² Stereo speakers (1 watt) Security keyhole, UltraBase lock Security keyhol	Security chip	Some: IBM Embedded Security Subsystem ³³ / hardware key storage / multi-factor	
Service options²² Optional service upgrades provide up to three years of onsite or depot repair service coverage from date of ThinkPad purchase (including warranty period) 64 MB SO DIMM 133MHz NP SDRAM 19K4650 128 MB SO DIMM 133MHz NP SDRAM 19K4650 1256 MB SO DIMM 133MHz NP SDRAM 19K4650 1512 MB SO DIMM 133MHz NP SDRAM 19K4650 1512 MB SO DIMM 133MHz NP SDRAM 19K4650 10SB Portable Diskette Drive 19C 2015 10SB Portable Divberbale Drive Bay 2000 15K9276 15K2480 10Hrabay 2000 15K9276 10SB Portable Drive Bay 2000 15K9233 124X-10X CD-ROM Ultrabay 2000 Drive 24X-10X CD-ROM Ultrabay 2000 Drive 25K9233 124X-10X CD-ROM Ultrabay 2000 Drive 25K9233 124X-10X CD-ROM Ultrabay 2000 Drive 25K9233 124X-10X CD-ROM Ultrabay 2000 Drive 25K9233 10K1480 10K1490	L imited warranty ¹²	**	, ,
64 MB SO DIMM 133MHz NP SDRAM 19K4652 256 MB SO DIMM 133MHz NP SDRAM 19K4654 19K4655 USB Portable Diskette Drive Portable DVD-ROM Drive Portable Drive Bay 2000 Ultrabay 2000 interchangeable accessories: SuperDisk (LS-240) UltraBay 2000 24X-10X CD-ROM Ultrabay 2000 Drive 8X/4X/24X Max CD-RW Ultrabay 2000 8X9569 8X-3X DVD Ultrabay 2000 Second HDD Adapter for Ultrabay 2000 Second		Optional service upgrades provide up to three years of onsite or depot repair service	 Stereo speakers (1 watt)
128 MB SO DIMM 133MHz NP SDRAM 256 MB SO DIMM 133MHz NP SDRAM 19K4652 19K4654 USB Portable Diskette Drive Portable DVD-ROM Drive Portable Drive Bay 2000 Ultrabay 2000 interchangeable accessories: SuperDisk (LS-240) UltraBay 2000 24X-10X CD-ROM Ultrabay 2000 Drive 24X-10X CD-ROM Ultrabay 2000 Drive 8X/4X/24X Max CD-RW Ultrabay 2000 8X9569 8X-3X DVD Ultrabay 2000 Drive 8X-3X DVD Ultrabay 2000 Second HDD Adapter for U	64 MD CO DIMA		Serial and parallel ports
256 MB SO DIMM 133MHz NP SDRAM 512 MB SO DIMM 133MHz NP SDRAM USB Portable Diskette Drive Portable DVD-ROM Drive Portable Drive Bay 2000 Ultrabay 2000 interchangeable accessories: SuperDisk (LS-240) UltraBay 2000 Zip 250MB Ultrabay 2000 Drive Z4X-10X CD-ROM Ultrabay 2000 Z4X-10X CD-ROM Ultrabay 2000 Z5K9276 SX/4X/24X Max CD-RW Ultrabay 2000 Z5K9276 SX/4X/24X Max CD-RW Ultrabay 2000 Z5K9282 Z13448 CD-RW/DVD Combo Ultrabay 2000 Second HDD Adapter for Ultrabay 2000 Second HDD Adapter for Ultrabay 2000 SK6671 Size Multiple Li-lon/NiMH Battery Charger ThinkPad Z2V AC Adapter ThinkPad Ultraportable 56W AC Adapter ThinkPad Ultraportable 56W AC Adapter ThinkPad Ultraportable 56W AC Adapter ThinkPad T2W AC Adapter ThinkPad Ultraportable 56W AC Adapter			
USB Portable Diskette Drive Portable Drive Bay 2000 19K4480		133MHz NP SDRAM	
Portable Drive Bay 2000 Portable Drive Bay 2000 Portable Drive Bay 2000 19K4480 Ultrabay 2000 interchangeable accessories: SuperDisk (LS-240) UltraBay 2000 Zip 250MB Ultrabay 2000 Drive 24X-10X CD-ROM Ultrabay 2000 Drive 38X/4X/24X Max CD-RW Ultrabay 2000 Second HDD Adapter for Ultrabay 2000 Second HDD Adapter for Ultrabay 2000 Second HDD Adapter for Ultrabay 2000 Naked 56 19K4480 Ultrabay 2000 Drive 05K9233 10/100 Ether Jet™ CardBus Adapter 10/100 Enter Jet™ CardBus Adapter 10/100 Ether Jet™ CardBus Adapter 15GB HDD 40GB HDD 40GB HDD 40GB HDD 5ervicePac 3yr IOR 9x5 NBD 5ervicePac 3yr IOR 9x5 NBD 5vervicePac 3vervice 3vailable 10/2K6689 02K6689 04P6135 04	USB Portable Disk	ette Drive 05K9276 Multiple Li-Ion/NiMH Battery Charger 02K6719	CIM and DMI 2.0-compliant
Ultrabay 2000 interchangeable accessories: SuperDisk (LS-240) UltraBay 2000 O8K9616 Zip 250MB Ultrabay 2000 Drive 24X-10X CD-ROM Ultrabay 2000 Drive 38X/4X/24X Max CD-RW Ultrabay 2000 SECOND HUTPORT Compact Flash Reader 10/100 Enter/56K Mini PCI (3Com) 10/100 Ether/Jet™ CardBus Adapter 10/100 Ether/Jet™ CardBus Adapter 10/100 Ether/Jet™ CardBus Adapter 10/100 Ether/Jet™ CardBus Adapter 15GB HDD 40GB HDD 40GB HDD 48GB HDD 5ervicePac 3yr IOR 9x5 NBD 5ervicePac 3yr IOR 9x5 NBD Second HDD Adapter for Ultrabay 2000 O8K9607 Second HDD Adapter for Ultrabay 2000 O8K9608 IlBM USB Serial Parallel Adapter 10/100 Enet /56K Mini PCI (3Com) 10/100 Ether/Jet™ CardBus Adapter 10/100 Et		M Drive 22P5282 ThinkPad Ultraportable 56W AC Adapter 02K6880	Local and remote asset manage
SuperDisk (LS-240) UltraBay 2000 Zip 250MB Ultrabay 2000 Drive 24X-10X CD-ROM Ultrabay 2000 Drive 8X/4X/24X Max CD-RW Ultrabay 2000 8X-3X DVD Ultrabay 2000 Drive CD-RW/DVD Combo Ultrabay 2000 Travel Bezel for Ultrabay 2000 Second HDD Adapter for Ultrabay 2000 Second HD	_	changaphla acceptains: IBM USB Serial Parallel Adapter 22P5298	
21p 250MB Olfrabay 2000 Drive 8X/4X/24X Max CD-ROM Ultrabay 2000 8X/3X DVD Ultrabay 2000 Drive 8X-3X DVD Ultrabay 2000 8X-3X DVD Ultrabay 2000 Travel Bezel for Ultrabay 2000 Second HDD Adapter fo	SuperDisk (LS-240	1) UltraBay 2000 08K9616 UltraBort Compact Flash Boader 19K4510	Setup Guide, Service and Trouble-
8X/4X/24X Max CD-RW Ultrabay 2000 8X-3X DVD Ultrabay 2000 Drive CD-RW/DVD Combo Ultrabay 2000 Travel Bezel for Ultrabay 2000 Second HDD Adapter for Ultrabay 20		y 2000 Drive 0008253 10/100 Enet /56K Mini PCI (3Com) 09N9774	snooting Guide, Windows manual IBM ImageUltra Services available
SASA DVD Olfrabay 2000 Drive 27L3448 doGB HDD 48K9572 OSECOND HDD Adapter for Ultrabay 2000 OSK6068 Second HDD Adapter for Ultrabay 2000 OSK6068 OSECOND FOR STAND OSCING FOR STAND OSK6068 OSECOND FOR STAND OSCING FO	8X/4X/24X Max CI	0-RW Ulfrabay 2000 08K9569 15GB HDD 08K9588	IBM Rapid Restore PC available to
Travel Bezel for Ultrabay 2000 08K6070 Second HDD Adapter for Ultrabay 2000 08K6068 ServicePac 3yr IOR 9x5 NBD ServicePac 3yr IOR 9x5 NBD 30L9190 30L9197 International Warranty Service 17 24 hour x 7 day 18 toll-free hardware support during the warranty		27L3448 40GB HDD 08K9687 08K9572 48GB HDD (5400 rpm) ²³ 08K9660	Personalized Web-based support
support during the warranty	Travel Bezel for Ul	ORCOOTO ServicePac®, 22 2yr IOR 9x5 NBD 30L9190	
	Josepha Fibb Adap	ServicePac 3yr IOR 9x5 NBD 30L9197	support during the warranty

Typo-model	Droc	00002	MH-	Momon	Sorcon	Diek	Ontico	Mini PCI		C: ethernet			Vorkhorse	
Type-model 2662-DBU		essor um® III		Memory 128MB	Screen 12.1" XGA	Disk 20GB ⁸	Optical None	Modem	or B	Bluetooth™ 10/100	Chip	Preload Windows® XP Pr	Global mod ∩	el date Jan 2002
		um III		128MB	12.1" XGA	20GB		Modem		10/100		Windows 2000		Jan 2002
		um III		128MB	12.1" XGA	30GB		Modem		10/100		Windows XP Pro		Jan 2002
		um III		128MB	12.1" XGA	30GB		11b Wi-Fi ³² /mc				Windows XP Pro		Jan 2002
		um III		128MB	12.1" XGA	30GB		10/100/moder		Bluetooth		Windows XP Pro		Jan 2002
		um III um III		128MB 128MB	12.1" XGA 12.1" XGA	30GB 30GB		11b Wi-Fi/mod Modem	iem	10/100 10/100	Yes	Windows XP Pro Windows 2000		Jan 2002 Jan 2002
		um III		128MB	12.1" XGA	30GB		11b Wi-Fi/mod	lem	10/100		Windows 2000 Windows 2000		Jan 2002
		um III		128MB	12.1" XGA	30GB		10/100/modern		Bluetooth		Windows 2000		Jan 2002
2662-E7U	Penti	um III	866	128MB	12.1" XGA	30GB	None	11b Wi-Fi/mod	lem	10/100	Yes	Windows 2000	W	Jan 2002
Positioning		Extra-	liaht i	extra-sma	ıll ultraportab	le noteh	ook: on	e snindle						
Processor		Mobil	e Inte	I® Pentiu	m® III Proces	sor-M	300 or 8	66MHz with					NARE ¹⁴	
L2 cache					ocessor spee			MHz frontside b	us			Windows XP Pro		
Memory		128M	B std	640MB n	nax ⁷ / SDRAI	M/non-	parity /	133MHz / PC13	33/3.	.3v / one 1	44-pin	- Microsoft® Windo Professional	WS® XP	
		SO-DI	IMM s	ocket / 12	8MB integrat	ed/1s	ocket a	vail (128MB mo	dels)		•	♦ Disk-to-Disk Rec	overv	
Diskette drive								al UltraBase™ X				(in hidden Service)
CD or DVD-R								rom optional UI			_	Windows 2000 mo	dels	
Ultrabay™ 200								ase X2 media si		r ThinkPad	Dock	- Microsoft Window		
Disk								M.A.R.T. / ATA				Professional ¹³	13 2000	
Display			•	•				ve Matrix / 150		20000		 ConfigSafe® 		
								MB DDR-SDR/ s at 100Hz and)			
Keyboard		Stand	ard-si	ze ²⁶ keys	/ 97% size of	T Serie	s / 85-k	ey / 18.5mm pi	tch; 2	.5mm stok	ie /	INCLUDED SOFT		IIV
ThinkLight™								-to-Select," Inte v-light condition		Scroll Bar ¹	3		·Ane (a	,
UltraPort™		UltraP	ort co	nnector o	n top of displ	av for o	otions s	uch as digital U	ltraPo	ort Camera	1	Preloaded • Access ThinkPage	l	
Dimensions ³					279mm x 22							- Access Connec		
Travel weight ²				. Dxx: 3.2		/EBx: 3		111111	C	Others: 3.6	lbs	- Access Help		
Case material	I	Titani	um Ć	omposite	in the top co	ver for e	enhance	ed strength	_			- Access Support		
Battery - type					elligent; Exx							 PC-Doctor™ ThinkPad Utilities 		
Battery - life ¹⁰		Dxx: 1		-				models: 4.4 hrs		Others: 4.6	hrs			
Architecture		Intel 8	30MF	chipset /	82830MP G	raphics	Memor	y Controller Hul	b (GN	1CH-M) /		DownloadableIBM Rapid Resto	re TM PC	
								66 EIDE, PCI b Firmware Hub				IBM Data Transfer		
								i PCI, ext expan				 Universal Manag 		vices™
		(PC87	'391 S	Super I/O f	or infrared [d	ock-bas		ette, serial, par				IBM Update Conr		
Port replicator					ort Replicate		اد: مادد:	-\				 Client Security So security chip) 	mware (τοι	
Media slice Docking Station					(2 media slic			e)) and half-size F	ام ا ۲	ot)		, ,	الريام ما/	
								otional IBM Mici				License (CD not inc - Lotus® SmartSuit		um and
PC Card Std s	slot	One T	ype II	/ CardBu	s 32-bit / PCI	MCIA 2.	1 '					Lotus Notes® Clie		arrana
Ports								infrared (4Mbp	s) / R	J-11 (mode	em) /			
								mouse ports				= 0.4 0.4 0.5 \		21.125
Mini PCI Modem								customer upgr dem card / Luce				ULTRABASE X		SLICE
Wi-Fi ³² /mode	em	Some	. Jork : Mini	PCI Wi-F	i ³² wireless ⁴ .	ntersil®	Prism 2	2.5 chipset, dual	anter	nnas in				
								modem combo,			t	Left bay of UltraBa most Ultrabay 2000	se X2 supp	orts
10/100/mode	em	Some	: 10/1	00 ethern	et, 56K ⁶ V.90	moden	combo	Mini PCI card	/ IP S	ec / Intel ch	nipset	Optional CD-RO	M. CD-RW	
CDC								et / not custome			-4	DVD-ROM, LS-1		
Ethernet Bluetooth™		Some	. 10/1 . Blue	oo emern	eless technol	AUICATIO AA / AA	CDC /	ghter Card / Intel power button ne	~ 0250 agr ka	o∠⊏ i cnips evhoard	eı	Zip 250MB, CD-F	RW/DVD C	ombo
Audio support		Sound	Blast	er Pro™-c	compatible / C	S4299	AC97 c	odec / mono sp	eake	r/0.5 watt	/	 Optional HDD ac 	apter; for 2	2nd disk
		volum	e up, d	down, mut	te buttons / in	ternal m	nicropho	one / mic in / line	e in / ł	neadphone	out	UltraBase X2 right		
Security Security chip		Some	r-on pa - լբ ւտ	assword /	gual nard dis	sk passi	Nord/s tem ^{33/}	upervisor pwrd hardware key s	/ Sec	urity keyho	ole ctor	Standard diskette	arive (tixe	eu)
Coounty only		Joine	auth	entication	/ local file er	cryption	n/enha	nces VPN secu	ırity ¹⁶	o / main-la	0.01	Other features Stereo speakers	(1 watt)	
Limited warra	ntv ¹²	3 year						p and delivery		er service		Stereo speakersSecurity keyhole		elock
Service option	าร ²²	Option	nal séi	rvice upgr	ades provide	up to th	rree yea	ars of onsite or	depot		vice	 Serial and paralle 	ports	
							•	ing warranty pe	riod)			 Keyboard/mouse 	port	
64 MB SO D					19K4650 19K4652			media slice Replicator			N1180 K8667	56 watt AC Adapte		
256 MB SO E					19K4652		Pad Doc				3120U	PC 2001-complian		
512 MB SO D					19K4656			Series Li-Ion Ba	attery			CIM and DMI 2.0-0		000
USB Portable	e Disk	ette D			05K9276	Multip	le Li-Ion	/NiMH Battery C	harge	er 02	K6719	Local and remote a ment via the IBN		
Portable CD- Portable Driv					22P5297 19K4480			aportable 56Ŵ A V AC Adapter	AC Ad		K6880 K6699	Manageability se		
			المعد			IBMU	SB Seri	al Parallel Adapt	ter		P5298	Setup Guide, Serv	ice and Tr	
Ultrabay 200						IRMII	ltraPort	Camera II			P6135	shooting Guide,		
SuperDisk (L Zip 250MB U					08K9616 00N8253	IBM IE	EE 139	4 CardBus Card	t	19	K5679	IBM ImageUltra™: IBM Rapid Restor		
24X-10X CD					05K9233	IDIVI 3		B Memory Key) www.'		P5296	protect software		
8X/4X/24X N	/lax CI	D-RW	Ultrab	ay 2000	22P9101	40GB		sk 9.5mm (4200 d Disk 9.5mm (5			K9686 K9816	International Warr	anty Servic	ce ¹⁷
Ultralight 8X	Max	DVDL	Jltraba	y 2000	22P9102	80GB		sk 9.5mm (4200			K9869	24 hour x 7 day18 t	oll-free hai	rdware
CD-RW/DVD				ay 2000	22P6980 08K6070	Servic	ePac®,2	² 2yr IOR 9x5 N	BD	30	L9190	support during t	ne warrant	y 12
Travel Bezel Second HDD				nav 2000	08K6070	Servic	ePac 3y	r IÖR 9x5 NBD/			L9197			
Scoonarion	, nuap	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Unid	24y 2000	30110000	Other	options	at ibm.com /pc	/us/a	ccessories	6			

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Special Processor OH3 Memory Screen Disk Optical Verleas/modem of Buetooth** Ohip Processor Windows*200 WG May 200. 2005-MAU Penthum III.M 11.3 256MB 12.1*XGA 30GB None 10/100/modem III.0100 Versions** OH3 Memory 10/100/modem III.0100 Versio						
2862-MAU Pentium III-M 1.13 256MB 12 !* XAS 30GB None 11bW-FP*/modem (01/00 Yes biblectorth with the common	Type-model Pro	ocessor GHz Memory	Screen Disk Optica			
Processor Mobile Intel® Pentium* III Processor-M. 1.13GHz with remarkation lab Specifisher in technology and 1.35MHz frontside bus enhanced intels Specifisher in technology and 1.35MHz frontside bus managed intels Specifisher in the control of th	2662-MXU Penti 2662-M6U Penti 2662-MQU Penti 2662-MWU Penti	um III-M 1.13 256MB 12 um III-M 1.13 256MB 12 um III-M 1.13 256MB 12 um III-M 1.13 256MB 12	2.1" XGA 30GB None 2.1" XGA 30GB None 2.1" XGA 30GB None 2.1" XGA 30GB None	11b Wi-Fi ³² /modem 10/100 10/100/modem Blueto Modem 10/100 11b Wi-Fi/modem 10/100	Yes oth Yes	Windows 2000 W G May 2002 Windows 2000 W May 2002 Windows XP Pro W G May 2002 Windows XP Pro W G May 2002
Ez cache enhanced Intel SpeedSisp™ technology* and 133MHz frontside bus ST2KB / on die ja processor speed) / ECC ESMB and / 640MS max / SDRAM/ non-page of / ECC ESMB and / 640MS max / SDRAM/ non-page of / ECC ESMB and / 640MS max / SDRAM/ non-page of / ECC ESMB and / 640MS max / SDRAM/ non-page of / ECC ESMB and / 640MS max / SDRAM/ non-page of / ECC ESMB and / 640MS max / SDRAM/ non-page of / ECC ESMB and / 640MS max / SDRAM/ non-page of / ECC ESMB and / 640MS max / SDRAM/ non-page of / ECC ESMB and / 640MS max / SDRAM/ non-page of / ECC ESMB and / 640MS max / SDRAM/ non-page of / ECC ESMB and / 640MS max / SDRAM/ non-page of / ECC ESMB and / 640MS max / SDRAM/ non-page of / ECC ESMB and / 640MS max / SDRAM/ non-page of / ECC ESMB and / 640MS max / SDRAM/ non-page of / ECC ESMB and / 640MS max / SDRAM/ non-page of / ECC ESMB and / 640MS max / SDRAM/ non-page of / ECC ESMB and / 640MS max		Extra-light, extra-small ult	raportable notebook; or I Processor-M 1.13GH z	ne spindle swith		SOFTWARE ¹⁴
Co or DVD-ROM Done standard / optional optical drive removable from optional Ultrabase X2 modes Supports Ultrabay 2000 devices in optional Ultrabase X2 modes Supports Ultrabay 2000 devices in optional Ultrabase X2 modes Supports Ultrabay 2000 devices in optional Ultrabase X2 modes Supports Ultrabay 2000 devices in optional Ultrabase X2 modes Supports Ultrabay 2000 devices in optional Ultrabase X2 modes Supports Ultrabay 2000 devices in optional Ultrabase X2 modes Supports Ultrabay 2000 devices in optional Ultrabase X2 modes Supports Ultrabay 2000 devices in optional Ultrabase X2 modes Supports Ultrabay 2000 Support	L2 cache Memory	enhanced Intel SpeedStep 512KB / on die (at proces 256MB std / 640MB max ⁷ SO-DIMM socket / 128MB	o™ technology¹ and 133l sor speed) / ECC / SDRAM / non-parity / B integrated / 128MB SC	MHz frontside bus 133MHz / PC133 / 3.3v / on)-DIMM in 1 socket (none av	ail)	- Microsoft® Windows® XP Professional ²⁰ ⇒ Disk-to-Disk Recovery
Display 12.1" (308mm) XGA (1024x768) ITF Color/ Active Maritx / 150 nits Carphics controller ATII* Regree* Mobility RADEON M8mC / AGP 4x / 8MB DDP-SIDRAM / DDC28 Graphics - external External monitor to 1024x768 with 16.7 million colors at 100Hz and up to 1600xt200 Carphics - external External monitor to 1024x768 with 16.7 million colors at 100Hz and up to 1600xt200 Carphics - external External monitor to 1024x768 with 16.7 million colors at 100Hz and up to 1600xt200 Carphics - external External monitor to 1024x768 with 16.7 million colors at 100Hz and up to 1600xt200 Carphics - external External monitor to 1024x768 with 16.7 million colors at 100Hz and up to 1600xt200 Carphics - external External monitor to 1024x768 with 16.7 million colors at 100Hz and up to 1600xt200 Carphics - external External monitor to 1024x768 with 16.7 million colors at 100Hz and up to 1600xt200 Carphics - external External monitor to 1024x768 with 16.7 million colors at 100Hz and up to 1600xt200 Carphics - external External monitor to 1024x768 with 16.7 million colors at 100Hz and up to 1600xt200 Carphics - external External monitor to 1024x768 with 16.7 million colors at 100Hz and up to 1600xt200 Carphics - external External monitor to 1024x768 with 16.7 million colors at 100Hz and up to 1600xt200 Carphics - external External monitor to 1024x768 with 16.7 million colors at 100Hz and up to 1600xt200 Carphics - external External monitor to 1024x768 with 16.7 million colors at 100Hz and up to 1600xt200 Carphics - external External monitors and up to 1600xt200 Carphics - external monitors and up to 1600xt200 Carphics - external External monitors and up to 1600xt200 Carphics - external External monitors and up to 1600xt200 Carphics - external External monitors and up to 1600xt200 Carphics - external monitors and up to 1600xt200 Carphics - external monitors and up to 1600xt200 Carphics - external monitors and up to 1600xt200 Carphics - external monitors and up to 1600xt200 Carphics - ext	CD or DVD-ROM Ultrabay™2000	None standard / optional of Supports Ultrabay 2000 de 30GB [®] / 4200 rpm / user u	optical drive removable evices in optional Ultrab ipgradable / S.M.A.R.T.	from optional UltraBase X2 ase X2 media slice or Thinkf / ATA-100	Pad Dock	Windows 2000 models - Microsoft Windows 2000
TrinkLight ^{av} UltraPort on improve visibility in low-light conditions ultraPort Camera UltraPort connector on top of display for options such as digital UltraPort camera UltraPort connector on top of display for options such as digital UltraPort camera UltraPort Connector on top of display for options such as digital UltraPort Camera UltraPort Connector on top of display for options such as digital UltraPort Camera UltraPort Connector on top of display for options such as digital UltraPort Camera UltraPort Cam	Graphics controller Graphics - externa	ATI™ Rage™ Mobility RA External monitor to 1024x	ADEON M6MC / AGP 4 768 with16.7 million colo	X / 8MB DDR-SDRAM / DDC rs at 100Hz and up to 1600x1	200	 ConfigSafe[®] Disk-to-Disk Recovery
Travelweight* Case material Battery - Hips Case material Battery - Lone - Scell / intelligent Titanium Composite in the top cover for enhanced strength Battery - Hips Architecture Intel 830MP chipset / 82830MB craphics Memory Controller Hub (GMCH-M) / (LPC) interface, USB (Bluetooth) / Intel 82802A C Firmware Hub / PCL bus 2 2 23-bit, 33MHz (Richor) **F564** [Cardibus controller, Mini PCL of Controller Hub (Art A 10)66 EDE, PCI bus Low Pun Country PCG-7391 Super I/C for infrared (dock-based diskette, serial, parallel) Potting TinkPAP Dort Replicator Media slice Docking Station Compact Flash slot PC Card Stid slot Ports Pott Flash slot Port Replicator Compact Flash slot / 10 CP+ Type II / Supports optional IBM Microdrive* Potts Potts Potts Potts Potts Pott Potts P	ThinkLight™ UltraPort™	ThinkPad Button / palm re Illuminates the keyboard t UltraPort connector on top	est / TrackPoint®, "Press to improve visibility in lo p of display for options s	s-to-Select," Internet Scroll E w-light conditions such as digital UltraPort Cam	Bar ¹³	Preloaded • Access ThinkPad
### Security	Travel weight ² Case material Battery - type	with battery: Wi-Fi/Blueto Titanium Composite in the Li-Ion 6-cell / intelligent	oth models: 3.7 lbs (1.6 he top cover for enhance	9 kg); Others: 3.6 lbs (1.64 led strength		- Access Help - Access Support • PC-Doctor™ • ThinkPad Utilities
Compact Flash slot Compact Flash slot / 1 CF+ Type II / supports optional IBM Microdrive M C Card Std slot One Type II / Card Std Sub One Type II / Card Std Sub One Type II / Card Std Sub One Type II / Card Std Sub One State Std Sub One State Std Sub One State Std Sub One State Std Sub One State Std Sub One State Std Std Sub One State Std Std Sub One State Std Std Std Std Std Std Std Std Std Std	Portreplicator	Intel 830MP chipset / 82830MP Graphics Memory Controller Hub (GMCH-M) / 82801CAM ICH3-M I/O Controller Hub (ATA-100/66 EIDE, PCI bus, Low Pin Count (LPC) interface, USB [Bluetooth]) / Intel 82802AC Firmware Hub / PCI bus 2.2 32-bit, 33MHz (Ricoh® R5C476II CardBus controller, Mini PCI, ext expansion) / LPC bus 33MHz (PC87391 Super I/O for infrared [dock-based diskette, serial, parallel]) Optional ThinkPad Port Replicator				
Mini PCI Modem Modem	Compact Flash slot PC Card Std slot	Optional ThinkPad Dock Compact Flash slot / 1 C One Type II / CardBus 32 Two USB (version 1.1) / e	(includes Ultrabay 200 CF+ Type II / supports o -bit / PCMCIA 2.1 external DB-15 monitor	0 and half-size PCI slot) otional IBM Microdrive™ 'infrared (4Mbps) / RJ-11 (m		- Lotus® SmartSuite® Millénnium and
10/100/modem 10/100 ethernet, 56K° V.90 (V.92-designed²®) modem combo, Lucent® chipset Some: 10/100 ethernet, 56K° V.90 (V.92-designed²®) modem combo Mini PCI card / IP Sec / Intel chipset One Communications Daughter Card (CDC) socket / not customer accessible Ethernet Some: 10/100 ethernet on Communications Daughter Card (Intel® 2562ET chipset Bluetooth Some: Bluetooth wireless technology on CDC / power button near keyboard SoundBlaster Pro™-compatible / CS4299 AC97 codec / mono speaker / 0.5 watt / volume up, down, mute buttons / internal microphone / mic in / line in / headphone out on power-on password / dual hard disk password / supervisor pwrd / security keyhole some: IBM Embedded Security Subsystem³ / hardware key storage / multi-factor authentication / enhances VPN security¹ Service options²² Service options²² Optional service upgrades provide up to three years of onsite or depot repair service coverage from date of ThinkPad purchase (including warranty period) 64 MB SO DIMM 133MHz NP SDRAM 19K4650 1256 MB SO DIMM 133MHz NP SDRAM 19K4651 ThinkPad Dock 1512 MB SO DIMM 133MHz NP SDRAM 19K4656 ThinkPad Port Replicator 2251201 1512 MB SO DIMM 133MHz NP SDRAM 19K4656 ThinkPad V20 Series Li-lon Battery (6-cell) 02K6651 02K6651 02K6651 02K9276 Multiple Li-lon/NiMH Battery Charger 02K6719 02K6691 19K4454 ThinkPad 2000 19K9276 Multiple Li-lon/NiMH Battery Charger 02K6719 02K6699 19K4454 ThinkPad 72W AC Adapter 19K9459 19K9450 19K9451 19K9450 19K9451 19K9450 19K	Modem	One Mini PCI type III slot (Some: 56K ⁶ V.90 (V.92-d Some: Mini PCI 11b Wi-F	(Communications Bay) lesigned ²⁹) Mini PCI mo Fi ³² wireless ⁴ , Intersil® Pr	/ customer upgradable dem card / Lucent® chip set	as in	OPTION
Bluetooth Audio support Audio support Some: Bluetooth wireless technology / on CDC / power button near keyboard SoundBlaster Pro™-compatible / CS4299 AC97 codec / mono speaker / 0.5 watt / volume up, down, mute buttons / internal microphone / mic in / line in / headphone out Power-on password / dual hard disk password / supervisor pwrd / security keyhole Some: IBM Embedded Security Subsystem³3 / hardware key storage / multi-factor authentication / enhances VPN security¹¹¹ Service options²² 3 years/1 year battery - EasyServ™¹¹² onsite pickup and delivery courier service Optional service upgrades provide up to three years of onsite or depot repair service coverage from date of ThinkPad purchase (including warranty period) 64 MB SO DIMM 133MHz NP SDRAM 128 MB SO DIMM 133MHz NP SDRAM 19K4652 ThinkPad Port Replicator 2266 MB SO DIMM 133MHz NP SDRAM 19K4652 ThinkPad Dock 263120U 512 MB SO DIMM 133MHz NP SDRAM 19K4656 USB Portable Diskette Drive 2275276 Multiple Li-lon/NiMH Battery Charger Portable CD-RW Drive 2275276 ThinkPad Ultraportable 56W AC Adapter Portable CD-RW Drive 2275276 ThinkPad Vac Adapter 15 Multiple Li-lon/NiMH Battery Charger 24X-10X CD-ROM Ultrabay 2000 Drive 8X44X/24X Max CD-RW Ultrabay 2000 CD-RW/IDVD Combo III Ultrabay 2000 22P99102 22P99102 CD-RW/IDVD Combo III Ultrabay 2000 22P99102 CD-RW/IDVD Combo III Ultrabay 2000 22P99102 22P99102 CD-RW/IDVD Combo III Ultrabay 2000 22P99102 22P99102 Service Pace**22 VI IOR 9x5 NBD 2000 11 VITal Pace III VIT	CDC	56K ⁶ V.90 (V.92-d Some: 10/100 ethernet, 5 IP Sec / Intel chips One Communications Date	lesigned ²⁹) modem com 6K ⁶ V.90 (V.92-designe set ughter Card (CDC) soc	d ²⁹) modem combo Mini PCI ket / not customer accessible	card/	most Ultrabay 2000 options: • Optional CD-ROM, CD-RW, DVD-ROM, LS-120/240 SuperDisk, Zip 250MB, CD-RW/DVD Combo
Security chip Some: IBM Embedded Security Subsystem33 / hardware key storage / multi-factor authentication / enhances VPN security¹6 Limited warranty¹² Service options²² Optional service upgrades provide up to three years of onsite or depot repair service coverage from date of ThinkPad purchase (including warranty period) 64 MB SO DIMM 133MHz NP SDRAM 19K4650 128 MB SO DIMM 133MHz NP SDRAM 19K4652 19K4650 11SB Portable Diskette Drive Portable Diskette Drive Portable Drive Bay 2000 Ultrabay 2000 interchangeable accessories: SuperDisk (LS-240) UltraBay 2000 22F9102 24X-10X CD-ROM Ultrabay 2000 CD-RW/DVD Combo III Ultrabay 2000 CD-RW/DVD Combo III Ultrabay 2000 CD-RW/DVD Combo III Ultrabay 2000 Security Subsystem³3 / hardware key storage / multi-factor authentication / enhances VPN security¹9 Security Subsystem³3 / hardware key storage / multi-factor authentication / enhances VPN security¹9 Security Subsystem³3 / hardware key storage / multi-factor authentication / enhances VPN security¹9 Security Subsystem³3 / hardware key storage / multi-factor authentication / enhances VPN security¹9 Security Subsystem³3 / hardware key storage / multi-factor authentication / enhances VPN security¹9 Service pacrity¹9 Service onsite or depot repair service Service onsite or depot repair service Service onsite or depot repair service Service onsite or depot repair service Service onsite or depot repair service Service onsite or depot repair service Service onsite or depot repair service Service onsite or depot repair service Service pacrity keyhole. Ultrafactor Service pacrity service Service pacrity in the provice of the pacrity on site or depot repair service Service Pacrity in the pacrity service pacrity on service pacrity on service pacrity on service	Bluetooth Audio support	Some: Bluetooth wireless SoundBlaster Pro™-comp volume up, down, mute bu	s technology / on CDC / patible / CS4299 AC97 (attons / internal microph	power button near keyboard codec / mono speaker / 0.5 w one / mic in / line in / headph	/att / one out	UltraBase X2 right bay contains: • Standard diskette drive (fixed)
Service options ²² Optional service upgrades provide up to three years of onsite or depot repair service coverage from date of ThinkPad purchase (including warranty period) 64 MB SO DIMM 133MHz NP SDRAM 19K4650 128 MB SO DIMM 133MHz NP SDRAM 19K4652 256 MB SO DIMM 133MHz NP SDRAM 19K4654 1756 MB SO DIMM 1256 MB SO DIMM 12	Security chip	Some: IBM Embedded S authentication / en	i-factor	 Stereo speakers (1 watt) Security keyhole, UltraBase lock Serial and parallel ports 		
128 MB SO DIMM 133MHz NP SDRAM 256 MB SO DIMM 133MHz NP SDRAM 19K4652 19K4654 11binkPad Dock 250 MB SO DIMM 133MHz NP SDRAM 19K4655 19K4656 10SB Portable Diskette Drive 10SB Portable CD-RW Drive 27P5297 19K4480 19K4656 10SB Portable Diskette Drive 2812D00 19K4480 19K4656 10SB Portable Diskette Drive 29F5297 19K4480 19K4480 19K4656 19K4480 19K4656 19K4480 19K4656 19K4480 19K4656 19K4480 19K4656 19K4480 19K4656 19K4480 19K4656 19K4480 19K4656 19K4480 19K4656 19K4480 19K4656		Optional service upgrades	s provide up to three ye	ars of onsite or depot repair		• neypoard/mouse port
SuperDisk (LS-240) UltraBay 2000	128 MB SO DIMM 256 MB SO DIMM 512 MB SO DIMM USB Portable Dis Portable CD-RW Portable Drive Ba	133MHz NP SDRAM 133MHz NP SDRAM 133MHz NP SDRAM kette Drive Drive y 2000	19K4652 ThinkPad Poi 19K4654 ThinkPad X2 19K4656 ThinkPad X2 05K9276 Multiple Li-lor 22P5297 ThinkPad Ulti 19K4480 ThinkPad 72\	t Replicator ck) Series Li-Ion Battery (6-cell) //NIMH Battery Charger aportable 56W AC Adapter V AC Adapter	02K8667 263120U 02K6651 02K6719 02K6880 02K6699	PC 2001-compliant CIM and DMI 2.0-compliant Setup Guide, Service and Trouble- shooting Guide, Windows manual IBM ImageUltra™ Services available IBM Rapid Restore PC available to
Second HDD Adapter for Ultrabay 2000 O8K6068 ServicePac 3yr IÓR 9x5 NBD 30L9197	SuperDisk (LS-24 Zip 250MB Ultrab 24X-10X CD-ROM 8X/4X/24X Max C Ultralight 8X Max CD-RW/DVD Con Travel Bezel for U	0) UltraBay 2000 ay 2000 Drive (1) Ultrabay 2000 Drive (2) D-RW Ultrabay 2000 Drive (3) DVD Ultrabay 2000 (4) Ultrabay 2000 (4) Ultrabay 2000 (5) Ultrabay 2000 (6) Ultrabay 2000 (6) Ultrabay 2000 (7) Ultrabay 2	08K9616 IBM UltraPort IBM IEEE 133 05K9233 22P9101 222P9102 22P99102 22P6980 08K6070 ServicePac 3	Camera II 44 CardBus Card 5B Memory Key isk 9.5mm (4200 rpm) d Disk 9.5mm (5400 rpm) isk 9.5mm (4200 rpm)	04P6135 19K5679 22P5296 08K9686 08K9816 08K9869	International Warranty Šervice ¹⁷ 24 hour x 7 day ¹⁸ toll-free hardware

				Mini PCI CDC	: modem Secu	ity Ethernet Workl	norse or Avail	
Type-model Pro	ocessor GHz Memory ¹¹	Screen Disk	Optical	wireless/modem or B		planar Preload Globa	I model date	
	ium®III-M 1.20 256MB 1 iumIII-M 1.20 256MB 1		None None	Open 11b Wi-Fi ³² /modem	Modem None Ye		/ G Sep 2002 / G Sep 2002	
2672-4HU Penti	ium III-M 1.20 256MB 1	12.1" XGA 40GB	None	11b Wi-Fi/modem	Bluetooth Ye	s 10/100 XP Pro V	/ Sep 2002	
	ium III-M		None None	Open 11b Wi-Fi/modem	Modem None Ye	10/100 2000 s 10/100 2000	Sep 2002 Sep 2002	
2672-4GU Penti	ium III-M 1.20 256MB 1	12.1" XGA 40GB	None	11b Wi-Fi/modem	Bluetooth Ye	s 10/100 2000	Sep 2002	
	ium III-M		None None	Cisco 802.11b Open	Modem Ye Modem	s 10/100 XP Pro V 10/100 XP Pro	/ Sep 2002 Sep 2002	
2672-1BU Penti	ium III-M 1.06 128MB 1	12.1" XGA 20GB	None	11b Wi-Fi/modem	None Ye	s 10/100 XP Pro	Sep 2002	
	ium III-M 1.06 128MB 1 ium III-M 1.06 128MB 1		None None	Open 11b Wi-Fi/modem	Modem None Ye	10/100 2000 s 10/100 2000	Sep 2002 Sep 2002	
Positioning	Extra-light, extra-small u					SOFTWAR	E ¹⁴	
Processor	Mobile Intel® Pentium® enhanced Intel SpeedSte					Windows XP Pro mode		
L2 cache Memory	512KB / on die (at proce 128 or 256MB std / 1GB	essor speed) / ECC)		CAS latonov 3	- Microsoft® Windows®	XP	
wiemory	two 144-pin SO-DIMM s					Professional ²⁰ ⇒ Disk-to-Disk Recover	/	
Diskette drive	None standard / use opt					(in hidden Service Par		
CD or DVD-ROM Ultrabay™ 2000	None standard / optional Supports Ultrabay 2000					Windows 2000 models		
Disk	20 or 40GB ⁸ / 4200 rpm				m tall	 Microsoft Windows 20 Professional²⁰ 	00	
Display Craphics controlls	12.1" (308mm) XGA (10				in CMCII/	ConfigSafe® ⇔Disk-to-Disk Recover	,	
•	r Intel 830MG Integrated controller dynamically al	llocates 8 to 32MB	11 of sys	tem mémory for graph	ics	(in hidden Service Par		
	ALExternal SVGA to variou					INCLUDED SOFTWAR	E ¹⁴ (all)	
Keyboard	Standard-size ²⁶ keys / 9 ThinkPad Button / palm	7% size of T Serie: rest / TrackPoint®.	s / 87-ke "Press-	ey / 18.5mm pitch; 2.5 to-Select." Internet Sc	mm stoke / roll Bar¹³	Preloaded	_ (a)	
ThinkLight™	Illuminates the keyboard	d to improve visibili	ty in low	-light conditions		 Access ThinkPad 		
Dimensions ³ Travel weight ²	10.7" x 8.8" x .98"-1.19"; with battery: 3.6 lbs to 3			30.2mm		 Access Connections Access Help 		
Case material	Titanium Ćomposite in	the top cover / ma	gnesiun			- Access Support • PC-Doctor™		
Battery - type Battery - life ¹⁰	Li-Ion 6-cell / intelligent (Non-wireless: 5.0 hrs; Ir.				abay battery)	 IBM Rapid Restore™ I 	PC .	
Architecture	Intel 830MG chipset / 82	2830MG Graphics	Memory	Controller Hub (GMC		ThinkPad UtilitiesIBM Update Connector	r _{TM,15}	
	82801CAM ICH3-M I/O (LPC) interface, USB [BI	Controller Hub (AT	A-100/6	66 EIDE, PCI bus, Low	Pin Count	Downloadable		
	33MHz (Ricoh® R5C522	CardBus/1394 co	mbo cor	ntroller, Mini PCI, ext ex	(pansion) / LPC	IBM Data Transfer IBM Director Agent		
Media slice	bus 33MHz (PC87392 S Optional X3 UltraBase r	Super I/O for infrare media slice (see ri	d (dock- aht side	-based diskette, serial)	, parallel])	IBM Client Security Software (for		
Docking Station	Optional ThinkPad Doc	k (includes Ultraba	v 2000	and half-size PCI slot)	M	security chip)		
PC Card Std slot	t Compact Flash slot / 1 One Type II / CardBus 3	2-bit / PCMCIA 2.1	orts opt I	ional IBM Microdrive	vi	License (CD not included) - Lotus® SmartSuite® Millennium and		
IEEE 1394 Ports	IEEE 1394 (FireWire) Portion USB (version 1.1)		onitor / i	nfrared (4Mbps) / D L 1	1 (modom) /	Lotus Notes® Client 5.0		
Forts	RJ-45 (ethernet) / parall	lel / IEEE 1394 (4-	pin) / no	serial, keyboard, or m	ouse ports	IBM ThinkPad X3 UltraBase™		
Mini PCI	One Mini PCI type III slo d Some: Mini PCI 11b Wi-	t (Communications	Bay)/	customer upgradeable	eil® Priom 2 5	Option		
I ID WI-FI-/IIIOC	chipset, dual ante	ennas in display cov	∕er, Wi-F	Fi-certified /	SII* F115111 2.5	Right bay of X3 UltraBa		
802.11b	56K ⁶ V.90 (V.92-c Some: Mini PCI 802.11b	designed ²⁹) moderr	n combo	, Agere® chipset Wireless 802 11b Pri	sm 2 0	Optional battery, CD-I	ROM, CD-RW,	
	chipset, dual ante	ennas in display cov	/er, Wi-F	-i-certified		 Optional HDD adapte 		
Wireless upg CDC	Some: PC Card or USB one Communications Da					Ultrabay Plus-compat		
Modem	Some: 56K ⁶ V.90 (V.92-	designed ²⁹) moden	in CDC	C / Agere® chipset		X3 UltraBase bottom coBay for X30 battery (s		
Bluetooth™ Ethernet	Some: Bluetooth wireles 10/100 ethernet on syste	mboard / Intel 8256	32ETchi	pset (physical layer) / F	PXE	Other features	40 7.00)	
Audio support	SoundBlaster Pro [™] -com volume up, down, mute b	npatible / AD1981 <i>A</i>	AC97 (codec / mono speaker	/ 0.5 watt /	Second battery support		
Security	Power-on password / du	ıal hard disk passw	∕ord / su	pervisor pwrd / securi	ty keyhole	battery or second sysStereo speakers (1 was	att)	
Security chip	Some: IBM Embedded factor authentication / lo					Security keyhole, UltraSerial and parallel por	aBase lock	
Limited warranty ¹²	3 years/1 year battery -				<u> </u>	PS/2 mouse port		
	/ 133MHz NP SDRAM			X3 UltraBase media sli		 Analog DB-15 monito One USB port (Ver 1. 		
	// 133MHz NP SDRAM // 133MHz NP SDRAM		Pad Port Pad Dock	Replicator k	02K8667 263120U	 Ethernet port and mod Retractable feet; 1.41 	lém port	
512 MB SO DIMM	/I 133MHz NP SDRAM	19K4656 ThinkF	ad X30	Series Li-Ion Battery (6	-cell) 02K7039		ib, 000y	
USB Portable Dis Portable CD-RW	Drive	22P5297 ThinkF	Pad Ultra	Series Extended Life B portable 56W AC Adap	ter 02K6880	56 watt AC Adapter PC 2001-compliant		
Portable Drive Ba 20GB Hard Disk D		19K4480 ThinkF 08K9686 IBM 12	2ad 72W 28MB 119	AC Adapter SB 2.0 Memory Key	02K6699 22P8998	ACPI 1.0b and 2.0-com CIM and DMI 2.0-comp	pliant liant	
40GB HS Hard Di	sk 9.5mm (5400 rpm)	08K9816 ThinkF	Pad Mon	itor Stand 2001	22P5265	Setup Guide, Service a	nd Trouble-	
80GB Hard Disk 9		Servic	ı a/ɒ/g W ePac ^{®, 22}	^l ireless CardBus Adapt ² 2yr IOR 9x5 NBD	er 31P9101 30L9190	shooting Guide, Wind IBM Rapid Restore PC		
	erchangeable accessories IM Ultrabay 2000 Drive	05K9233 Servic	еРас Зу	r IÓR 9x5 NBD r IOR 9x5 NBD	30L9197 69P9198	protect software imag	ge and data	
Ultralight 8X9 Max	x DVD Ultrábay 2000 mbo III Ultrabay 2000	22P9102 Service	ePac 5ý	r IOR 9x5 NBD	69P9200	International Warranty 24 hour x 7 day 18 toll-fre	ee hardware	
	apter for Ultrabay 2000	VOINEUED OCIVIO		r P&L P/U Depot r P&L P/U Depot	69P9199 69P9201	support during the wa	arranty ¹²	
				at ibm.com /pc/us/acc				

	Mini PCI CDC: modem/ Securi	ty Ethernet Workhorse or Avail
Type-model Pro-	cessor GHz Memory Screen Disk Optical wireless Bluetooth™ Chip	
	um® M 1.3 256MB 12.1" XGA 20GB8 None Open; wireless upg³6 Modem	10/100 XP Pro Mar 2003
	ium M 1.3 256MB 12.1" XGA 20GB None *Intel 11b Wi-Fi ³² Modem Yes ium M 1.4 256MB 12.1" XGA 40GB None Open; wireless upg Modem Yes	10/100 XP Pro Mar 2003 10/100 XP Pro W G Mar 2003
2672-CBU Pent	ium M 1.4 256MB 12.1" XGA 40GB None *Intel 11b Wi-Fi Modem Yes	10/100 XP Pro W G Mar 2003
	ium M	10/100 XP Pro W G Mar 2003 Gigabit XP Pro W Mar 2003
	ium M 1.4 256MB 12.1" XGA 40GB None Open; wireless upg Modem Yes	Gigabit XP Pro W Mar 2003
2672-JBU Pent	ium M 1.4 256MB 12.1" XGA 40GB None *Intel 11b Wi-Fi Modem Yes	Gigabit XP Pro W Mar 2003
	um M 1.4 256MB 12.1" XGA 40GB None Cisco 802.11b Modem Yes	Gigabit XP Pro W Mar 2003
Positioning Processor	Ultimate mobility in a versatile ultraportable; one spindle Intel® Pentium® M Processor 1.3 or 1.4GHz with	SOFTWARE ¹⁴
	enhanced Intel SpeedStep™ technology¹ and 400MHz frontside bus	Windows XP Pro models
L2 cache	1MB / on die (at processor speed) / ECC	- Microsoft® Windows® XP
Memory	256MB std / 2GB max ⁷ / PC2100 266MHz DDR-SDRAM / non-parity / CL2.5 / two 200-pin SO-DIMM sockets / std memory in one socket / one socket available	Professional ²⁰ ♦ Disk-to-Disk Recovery
Diskette drive	None standard / use optional Ultrabay™-based (in opt X3) or USB-based diskette drive	(in hidden protected area)
Optical drive	None standard / optional USB-based optical, or optional Ultrabay 2000-based optical	Preloaded
Ultrabay™2000	removable from optional X3 UltraBase, ThinkPad Dock, or ThinkPad Dock II Supports Ultrabay 2000 devices in optional X3 Ultrabase, ThinkPad Dock, or Dock II	Access IBM
Disk	20 or 40GB ⁸ , 4200 rpm, 9.5mm, ATA-100 / removable and upgradable / 9.5mm high bay	Access Connections Adobe Acrobat Reader
Display	12.1" (308mm) XGA (1024x768) TFT color / Active Matrix / 150 nits / two latches	IBM Rapid Restore™ PC
	rATI® Mobility RADEON® / AGP 4X / 16MB DDR-SDRAM	 Norton AntiVirus (OEM edition) PC-Doctor™
Graphics - externa	Il External monitor support via analog DB-15 connector / up to 1280x1024x16.7M at 85Hz	ThinkPad Utilities
Keyboard	Standard-size ²⁶ keys / 97% size of T Series / 87-key / 18.5mm pitch; 2.5mm stoke /	IBM Update Connector™,15
	Access IBM button / palm rest / TrackPoint®, "Press-to-Select," Internet Scroll Bar ¹³ / soft dome TrackPoint cap / ships with classic dome and soft rim TrackPoint cap	Downloadable
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions	 IBM Director Agent Software Delivery Assistant
Dimensions ³	10.7" x 8.8" x .98"-1.19"; 273mm x 223mm x 24.9-30.2mm	System Migration Assistant
Travel weight ² Case material	with battery: 3.6 lb (1.64 to 1.65kg) Titanium composite in the top cover / magnesium alloy bottom case	Client Security Software (security ship model)
Battery - type	Li-lon 6-cell / intelligent / supports opt Extended Life Battery on base (for two batteries);	chip model)
Dattain, life 10	supports Ultrabay battery or optional 6-cell battery in X3 UltraBase (for two batteries)	License (CD not included) - Lotus® SmartSuite® Millennium and
Battery - life ¹⁰	5.3 to 6.0 hrs; with std battery and optional Extended Life Battery: 9.9 to 10.1 hrs	Lotus Notes® Stand-alone Client
Architecture	Intel 855PM chipset / 82855PM Memory Controller Hub (MCH-M) / 82801DBM ICH4-M I/O Controller Hub (ATA-100 EIDE, PCI bus, ethernet MAC,	IBM ThinkPad X3 UltraBase™
	Low Pin Count (LPC) interface, USB [Bluetooth]) / Intel 82802AC Firmware Hub / PCI	Option
	bus 2.2 32-bit, 33MHz (Ricoh® R5C522 CardBus/1394 combo controller, Mini PCI, ext expansion) / LPC bus 33MHz (PC87392 Super I/O for infrared [dock-based diskette,	Right bay of X3 UltraBase supports
	serial, parallel])	most Ultrabay 2000 options: • Optional battery, CD-ROM, CD-RW,
Media slice	Optional X3 UltraBase media slice (see right side)	DVD-ROM, Zip 250MB, Combo
PC Card Std slot	t Compact Flash slot / 1 CF+ Type II / supports optional IBM Microdrive™ One Type II / CardBus 32-bit / PCMCIA 2.1	Optional HDD adapter; for 2nd disk such as 80GB HS Hard Disk 9.5mm
IEEE 1394	IEEE 1394 (FireWire) Port (4-pin)	(5400 rpm) 09N4273
Ports	Two USB (version 2.0) / external DB-15 monitor / infrared (4Mbps) / RJ-11 (modem) / RJ-45 (ethernet) / parallel / IEEE 1394 (4-pin) / no serial, keyboard, or mouse ports	Ultrabay Plus-compatible
Wireless antenna		Ultrabay 2000 accessories:
Mini PCI	One Mini PCI type III slot (Communications Bay) / customer upgradeable	CD-RW/DVD Combo IV Ultrabay 2000 22P6991
Wireless upg ³⁶ 11b Wi-Fi ³²	Some: Wireless upgradable with wireless Mini PCI options Some: 11b Wi-Fi ³² wireless ⁴ , Mini PCI, Intel PRO/Wireless 2100 Network Connection	Second HDD Adptr for Ultrabay
I ID WI-FI	802.11b, Intel 82531 chipset	2000 08K6068 • ThinkPad Removable Diskette Drive
Cisco 802.11b	Some: 802.11b wireless ⁴ , Mini PCI, Cisco [®] Aironet [®] Wireless 802.11b,	08K9603
11a/b Wi-Fi ²⁷	Prism 2.0 chipset Some: 11a/b Wi-Fi ²⁷ wireless⁴, Mini PCI, Atheros™ AR5001X chipset	Ultrabay 2000 Li-Ion battery 02K6646
CDC	One Communications Daughter Card (CDC) socket / customer accessible	X3 UltraBase bottom contains:
Modem Bluetooth™	56K ⁶ V.90 (V.92-designed ²⁵) modem in CDC / Agere® chipset Some: Bluetooth wireless technology / in CDC (with modem)	Bay for X30 battery (same as X31) Other feet was as:
Ethernet	Some: 10/100 ethernet on systemboard / Intel 82562EZ chipset (physical layer) / PXE	Other features: Second battery support (for Ultrabay)
A	Some: Gigabit ethernet on systemboard / Intel 82540EP chipset (MAC/PHY) / PXE	battery or second 6-cell battery)
Audio support	Soft audio / ICH AC97 controller / DirectSound® support / AD1981B AC97 codec / mono speaker / 0.5 watt / volume up, down, mute buttons / internal mic /	Stereo speakers (1 watt) Security keybola Ultra Paga look
	microphone input jack (pink) / headphone jack (green) / mic in (blue) [all 3.5mm]	Security keyhole, UltraBase lock Serial and parallel ports
Security Security chip	Power-on password / dual hard disk password / supervisor pwrd / security keyhole Some: IBM Embedded Security Subsystem 2.033 / hardware key storage / multi-factor	PS/2 mouse port
Gecunty Chip	authentication / local file encryption / enhances VPN security 16 / TCG-compliant	Analog DB-15 monitor portOne USB port (Ver 2.0 only on X31)
Limited warranty ¹²	3 years/1 yr battery - EasyServ™.19 onsite pickup and delivery / service upgrades²² avail	Ethernet port and modem port
128MB PC2100	DDR-SDRAM CL2.5 SOD 10K0028 IBM ThinkPad X3 UltraBase media slice 46P7912	Retractable feet; 1.41 lb; 638g
256MB PC2100	DDR-SDRAM CL2.5 SOD 10K0030 ThinkPad Port Replicator II 74P6733	
	DDR-SDRAM CL2.5 SOD 10K0032 ThinkPad Mini Dock 287810U R-SDRAM CL2.5 SOD 31P9834 ThinkPad Dock II 287710U	56 watt AC Adapter Asset ID™,34 (system-specific info in
USB Portable Dis		chip accessed over network)
40GB HS Hard D	isk 9.5mm (5400 rpm) 08K9816 ThinkPad X30 Series Extended Life Battery 02K7041	PC 2001-compliant
IBM 256MB USB	isk 9.5mm (5400 rpm) 09N4273 ThinkPad Ultraportable 56W AC Adapter 02K6880 2.0 MemoryKey 22P9025 ThinkPad 72W AC/DC Combo Adapter 22P9010	
IBM 11a/b/g Wire	less CardBus Adapter 31P9101 ServicePac®, 22 2yr IOR 9x5 NBD 30L9190	IBM Rapid Restore PC available to
	less Mini PCI Adapter 31P9701 ServicePac 3yr IOR 9x5 NBD 30L9197 ServicePac 5yr IOR 9x5 NBD 69P9200 ServicePac 5yr I	protect software image and data International Warranty Service ¹⁷
	reless 802.11b Mini PCI 31P8301 ServicePac 5yr P&L P/U Depot 69P9201	24 hour x 7 day ¹⁸ toll-free warranty
	ss 2200BG Mini PCI 73P2801 Other options at ibm.com/pc/us/accessories	support during the warranty ¹²
Con footpoton for i	mortant warranty information # Powered by Intel ContrincTM mobile technology	(Y31) @ IBM Corp. July 2004

	Mini PCI CDC: modem/ Securi	
	ressor GHz Memory Screen Disk Optical wireless Bluetooth™ Chip um® M 1.3 256MB 12.1" XGA 20GB ⁸ None Open; wireless upg ³⁶ Modem	planar Preload Global model date 10/100 2000 No Mar 2003
2672-BAU Pent	um M 1.3 256MB 12.1" XGA 20GB None *Intel 11b Wi-Fi Modem Yes um M 1.4 256MB 12.1" XGA 40GB None Open; wireless upg Modem	10/100 2000 No Mar 2003 10/100 2000 No Mar 2003
	um M 1.4 256MB 12.1" XGA 40GB None *Intel 11b Wi-Fi Modem Yes um M 1.4 256MB 12.1" XGA 40GB None Open, wireless upg Modem Yes	10/100 2000 No Mar 2003 Gigabit 2000 No Mar 2003
	um M 1.4 256MB 12.1" XGA 40GB None *Intel 11b Wi-Fi Modem Yes	Gigabit 2000 No Mar 2003
Positioning Processor	Extreme mobility in a small and light ultraportable; one spindle Intel® Pentium® M Processor 1.3 or 1.4GHz with	SOFTWARE ¹⁴ Windows 2000 models
L2 cache	enhanced Intel SpeedStep™ technology¹ and 400MHz frontside bus 1MB / on die (at processor speed) / ECC	- Microsoft® Windows® 2000
Memory	256MB std / 2GB max ⁷ / PC2100 266MHz DDR-SDRAM / non-parity / CL2.5 / two 200-pin SO-DIMM sockets / std memory in one socket / one socket available	Professional ²⁰ • ConfigSafe [®]
Diskette drive Optical drive	None standard / use optional Ultrabay™-based (in opt X3) or USB-based diskette drive None standard / optional USB-based optical, or optional Ultrabay 2000-based optical	♦ Disk-to-Disk Recovery (in hidden protected area)
Ultrabay™2000	removable from optional X3 UltraBase, ThinkPad Dock, or ThinkPad Dock II Supports Ultrabay 2000 devices in optional X3 Ultrabase, ThinkPad Dock, or Dock II	Preloaded • Access IBM
Disk	20 or 40GB ⁸ , 4200 rpm, 9.5mm, ATA-100 / removable and upgradable / 9.5mm high bay	 Access Connections
Display	12.1" (308mm) XGA (1024x768) TFT color / Active Matrix / 150 nits / easy-open cover to unlatch and open with one hand (two latches)	Adobe Acrobat Reader IBM Rapid Restore™ PC Nexton AntiVirus (CFM addition)
Graphics controlle	ATI® Mobility RADEON® / AGP 4X / 16MB DDR-SDRAM I External monitor support via analog DB-15 connector / up to 1280x1024x16.7M at 85Hz	 Norton AntiVirus (OEM edition) PC-Doctor™
Keyboard	Standard-size ²⁶ keys / 97% size of T Series / 87-key / 18.5mm pitch; 2.5mm stoke /	 ThinkPad Utilities IBM Update Connector^{TM,15}
Think interv	Access IBM button / palm rest / TrackPoint®, "Press-to-Select," Internet Scroll Bar ¹³ / soft dome TrackPoint cap / ships with classic dome and soft rim TrackPoint cap	Downloadable • IBM Director Agent
ThinkLight™ Dimensions³	Illuminates the keyboard to improve visibility in low-light conditions 10.7" x 8.8" x .98"-1.19"; 273mm x 223mm x 24.9-30.2mm	Software Delivery AssistantSystem Migration Assistant
Travel weight ² Case material	with battery: 3.6 lb (1.64 to 1.65kg) Titanium composite in the top cover / magnesium alloy bottom case	 Client Security Software (security chip model)
Battery - type	Li-Ion 6-cell / intelligent / supports opt Extended Life Battery on base (for two batteries) supports Ultrabay battery or optional 6-cell battery in X3 UltraBase (for two batteries)	License (CD not included) - Lotus® SmartSuite® Millennium and
Battery - life ¹⁰	5.2 to 5.4 hrs; with std battery and optional Extended Life Battery: 9.2 to 9.4 hrs	Lotus Notes® Stand-alone Client
Architecture	Intel 855PM chipset / 82855PM Memory Controller Hub (MCH-M) / 82801DBM ICH4-M I/O Controller Hub (ATA-100 EIDE, PCI bus, ethernet MAC,	IBM ThinkPad X3 UltraBase™
	Low Pin Count (LPC) interface, USB [Bluetooth]) / Intel 82802AC Firmware Hub / PCI bus 2.2 32-bit, 33MHz (Ricoh® R5C522 CardBus/1394 combo controller, Mini PCI, ext	Option Right bay of X3 UltraBase supports
NA - dia - dia -	expansion) / LPC bus 33MHz (PC87392 Super I/O for infrared [dock-based diskette, serial, parallel])	most Ultrabay 2000 options: Optional battery, CD-ROM, CD-RW,
Media slice Docking Station	Optional X3 UltraBase media slice (see right side) Optional ThinkPad Dock or Dock II (includes Ultrabay 2000 and half-size PCI slot)	DVD-ROM, Zip 250MB, Combo • Optional HDD adapter; for 2nd disk
PC Card Std slot	Compact Flash slot / 1 CF+ Type II / supports optional IBM Microdrive™ One Type II / CardBus 32-bit / PCMCIA 2.1	such as 80GB Hard Disk 9.5mm (4200 rpm) 08K9869
IEEE 1394 Ports	IEEE 1394 (FireWire) Port (4-pin) Two USB (version 2.0) / external DB-15 monitor / infrared (4Mbps) / RJ-11 (modem) /	Ultrabay Plus-compatible
Wireless antenna	RJ-45 (ethernet) / parallel / IEEE 1394 (4-pin) / no serial, keyboard, or mouse ports UltraConnect™ antenna built into the display cover for optimal wireless signal reception	Ultrabay 2000 accessories: • CD-RW/DVD Combo IV Ultrabay
Mini PCI Wireless upg ³⁶	One Mini PCI type III slot (Communications Bay) / customer upgradeable Some: Wireless upgradable with wireless Mini PCI options	2000 22P6991 Second HDD Adptr for Ultrabay
11b Wi-Fi ³²	Some: 11b Wi-Fi ³² wireless ⁴ , Mini PCI, Intel PRO/Wireless 2100 Network Connection 802.11b. Intel 82531 chipset	2000 08K6068 • ThinkPad Removable Diskette Drive
CDC Modem	One Communications Daughter Card (CDC) socket / customer accessible 56K6 V.90 (V.92-designed ²⁹) modem in CDC / Agere® chipset	08K9603 • Ultrabay 2000 Li-Ion battery02K6646
Bluetooth™ Ethernet	None standard (optional PC Card available) Some: 10/100 ethernet on systemboard / Intel 82562EZ chipset (physical layer) / PXE	X3 UltraBase bottom contains: • Bay for X30 battery (same as X31)
Audio support	Some: Gigabit ethernet on systemboard / Intel 82540EP chipset (MAC/PHY) / PXE Soft audio / ICH AC97 controller / DirectSound® support / AD1981B AC97 codec /	Other features:
	mono speaker / 0.5 watt / volume up, down, mute buttons / internal mic / microphone input jack (pink) / headphone jack (green) / mic in (blue) [all 3.5mm]	Second battery support (for Ultrabay battery or second 6-cell battery)
Security Security chip	Power-on password / dual hard disk password / supervisor pwrd / security keyhole Some: IBM Embedded Security Subsystem 2.0 ³³ / hardware key storage / multi-factor	Stereo speakers (1 watt)Security keyhole, UltraBase lock
	authentication / local file encryption / enhances VPN security16 / TCG-compliant	 Serial and parallel ports PS/2 mouse port
	3 years/1 yr battery - EasyServ ^{TM,19} onsite pickup and delivery / service upgrades ²² avail DDR-SDRAM CL2.5 SOD 10K0028 IBM ThinkPad X3 UltraBase media slice 46P7912	Analog DB-15 monitor portOne USB port (Ver 2.0 only on X31)
256MB PC2100 I	DR-SDRAM CL2.5 SOD 10K0030 ThinkPad Port Replicator II 74P6733 DR-SDRAM CL2.5 SOD 10K0032 ThinkPad Mini Dock 287810U	 Ethernet port and modem port Retractable feet; 1.41 lb; 638g
	R-SDRAM CL2.5 SOD 31P9834 ThinkPad Dock II 287710U	
IBM USB 2.0 Por	table CD-RW Drive 22P5297 ThinkPad X30 Series Extended Life Battery 02K7041 22P5297 ThinkPad X30 Series Extended Life Battery 02K7041 22P5297 ThinkPad Multiple Battery Charger II 22P9040	56 watt AC Adapter Asset ID ^{TM,34} (system-specific info in
40GB HS Hard D	Osk 9.5mm (5400 rpm) 08K9816 ThinkPad Ultraportable 56W AC Adapter 02K6880 Orive 9.5mm (4200 rpm) 08K9869 ThinkPad 72W AC/DC Combo Adapter 22P9010	chip accessed over network) PC 2001-compliant
IBM 64MB USB 2 IBM 256MB USB	.0 Memory Key 22P9024 ServicePac®, 22 2yr IOR 9x5 NBD 30L9190	ACPI 1.0b and 2.0-compliant CIM and DMI 2.0-compliant
ThinkPad Monito		IBM Rapid Restore PC available to
IBM 11a/b/g Wire	less Mini PCI Adapter 31P9701 ServicePac 4yr P&L P/U Depot 69P9199	protect software image and data International Warranty Service ¹⁷
	ss 2100 3B Mini PCI 31P8601 ServicePac 5yr P&L P/U Depot 69P9201 eless 802.11b Mini PCI 31P8301 Other options at ibm.com/pc/us/accessories	24 hour x 7 day ¹⁸ toll-free hardware support during the warranty ¹²
0 (program warranty information # Powered by Intel ContrincTM mobile technology	(V21M2K) @ IBM Corp. January 200

Type-model Proce		n/ Sec Ethernet WH (W) Gbl (G) Avai chip planar Preload Entry (E) date			
2672-3UU Pentiu 2672-58U Pentiu 2672-5KU Pentiu 2672-7KU Pentiu 2672-4UU Pentiu 2672-5UU Pentiu	m® M 1.5 256MB 12.1" XGA 30GB ⁸ None M 1.5 Optional Optional September 1.5 Optional Optional September 2.5 Optional Modem Modem Modem Modem Modem Modem Modem Modem Modem Modem Modem Modem Modem Modem Modem Modem Modem Modem M 1.7 Optional Modem Modem Modem Modem Modem Modem Modem Modem Modem Modem Modem Modem Modem Modem Modem Modem M 1.7 S12MB 12.1" XGA 40GB None Optional Modem Modem Modem Modem M 1.7 S12MB 12.1" XGA 40GB None Modem Modem Modem Modem M 1.7 Optional Modem Modem Modem Modem Modem Modem M 1.7 IBM 11b/g Modem Modem Modem Modem Modem Modem Modem Modem M 1.7 MM 1.7 256MB 12.1" XGA 40GB None Modem M 1.7 256MB 12.1" XGA 40GB None Modem Modem Modem Modem M 1.7 IBM 11b/g Modem Mo	Yes 10/100 XP Pro Entry Yes 10/100 XP Pro Entry Yes 10/100 XP Pro Entry Yes 10/100 XP Pro Entry Yes Gigabit XP Pro W G Feb 0/2 Yes Gigabit XP Pro W Feb 0/2 Yes Gigabit XP Pro W Feb 0/2 Yes Gigabit XP Pro W Feb 0/2 Yes Gigabit XP Pro W Feb 0/2 Yes Gigabit XP Pro W Feb 0/2 Yes Gigabit XP Pro W Feb 0/2 F			
Positioning Processor	Ultimate mobility in a versatile ultraportable; one spindle Intel® Pentium® M Processor 1.5 or 1.7GHz with	SOFTWARE ¹⁴			
L2 cache Memory	enhanced Intel SpeedStep™ technology¹ and 400MHz system bus 1MB / on die (at processor speed) / ECC 256 or 512MB std / 2GB max² / PC2700 333MHz DDR1 (memory controller limits memory speed to 266MHz) / non-parity / CL2.5 / two 200-pin SO-DIMM sockets / std memory in one socket / one socket available	Windows XP Professional - Microsoft® Windows® XP Professional²⁰ ⇒ Disk-to-Disk Recovery (in hidden protected area)			
Diskette drive Optical	None standard / use optional Ultrabay™-based (inX3) or USB-based diskette drive None standard / optional USB-based optical, or optional Ultrabay 2000-based optical	Preloaded • Access IBM			
Ultrabay™2000 Disk	removable from optional X3 UltraBase, ThinkPad Dock, or ThinkPad Dock II Supports Ultrabay 2000 devices in optional X3 UltraBase (or optional ThinkPad Dock II) 30GB (4200 rpm), 40GB *(4200 rpm), or 40GB (HS 5400 rpm), 9.5mm, ATA-100 / removable and upgradable / 9.5mm high bay	 Access Connections Adobe Reader IBM Rapid Restore™ Ultra Norton AntiVirus (OEM edition) 			
Display	12.1" (308mm) XGA (1024x768) TFT color / Active Matrix / 150 nits	PC-Doctor™			
	r ATI® MOBILITY™ RADEON® / AGP 4X / 16MB DDR1 (DDR-SDRAM) Il External monitor support via analog DB-15 connector / up to 1280x1024x16.7M at 85Hz	ThinkPad Utilities IBM Update Connector™.15			
Keyboard	Standard-size ²⁶ keys / 97% size of T Series / 87-key / 18.5mm pitch; 2.5mm stoke / Access IBM button / palm rest / TrackPoint®, "Press-to-Select," Internet Scroll Bar ¹³ / soft dome TrackPoint cap / ships with classic dome and soft rim TrackPoint cap	Downloadable IBM Director Agent Software Delivery Assistant System Migration Assistant			
ThinkLight™ Dimensions³	Illuminates the keyboard to improve visibility in low-light conditions without X3 UltraBase: 10.7" x 8.8" x .98-1.19"; 273mm x 223mm x 24.9-30.2mm	Client Security Software (for			
Travel weight ² Case material Battery - type Battery - life ¹⁰	with X3 UltraBase and optical: 10.8" x 8.9" x 2.0-2.3"; 273 x 227 x 51-58mm with battery: 3.6 lb (1.65kg); with X3 UltraBase and optical: 5.6 lb (2.54kg) Color: black; All: titanium composite in the top cover / magnesium alloy bottom case Li-lon 6-cell / intelligent / supports opt Extended Life Battery on base (for two batteries) supports Ultrabay battery or optional 6-cell battery in X3 UltraBase (for two batteries) 5.5 to 6.0 hrs; with std battery and optional Extended Life Battery: up to 10.1 hrs	security chip) License (CD not included) Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client			
Architecture	Intel 855PM chipset / 82855PM Memory Controller Hub (MCH-M) /	IBM ThinkPad X3 UltraBase™			
Media slice Compact Flash slo PC Card Std slot IEEE 1394 Ports	82801DBM ICH4-M I/O Controller Hub (ATA-100 EIDE, PCI bus, ethernet MAC, Low Pin Count (LPC) interface, USB [Bluetooth]) / Intel 82802AC Firmware Hub / PCI bus 2.2 32-bit, 33MHz (Ricoh® R5C554 CardBus/1394 combo controller, Mini PCI, ext expansion) / LPC bus 33MHz (PC87392 Super I/O) Optional X3 UltraBase media slice (see right side) t Compact Flash slot / 1 CF+ Type II / supports optional IBM Microdrive™ One Type II / CardBus 32-bit / PCMCIA 2.1 / integrated door IEEE 1394 (FireWire) port (4-pin) Two USB (version 2.0) / external DB-15 monitor / infrared (4Mbps) / RJ-11 (modem) / RJ-45 (ethernet) / parallel / IEEE 1394 (4-pin) / no serial, keyboard, or mouse ports	Right bay of X3 UltraBase supports most Ultrabay 2000 options: Optional battery, CD-ROM, CD-RW, DVD-ROM, Zip 250MB, Combo Optional HDD adapter for 2nd disk Ultrabay Plus-compatible Ultrabay 2000 accessories: CD-RW/DVD Combo IV Ultrabay 2000 22P6991			
Wireless antenna Mini PCI Wireless upg ³⁶ 11b Wi-Fi ³² IBM 11b/g ³² 11a/b/g Wi-Fi ³² CDC	UltraConnect™ antenna built into the display cover for optimal wireless signal reception One Mini PCI type III slot (Communications Bay) / customer upgradeable Some: wireless upgradable with wireless Mini PCI options Some: 11b Wi-Fi³² wireless⁴, Mini PCI, Intel PRO/Wireless 2100 Network Connection 802.11b, Intel 82531 chipset Some: IBM 11b/g Wi-Fi³² wireless⁴, Mini PCI, Atheros™ AR5004G chipset Some: 11a/b/g Wi-Fi³² wireless⁴, Mini PCI, Atheros™ AR5001X+ chipset One Communications Daughter Card (CDC) socket / customer accessible	Second HDD Adapter for Ultrabay 2000 08K6068 ThinkPad Removable Diskette Drive 08K9603 Ultrabay 2000 Li-Ion battery02K6646 Enhanced Drive Adapter for Ultrabay 2000 73P3268 X3 UltraBase bottom contains:			
Modem Bluetooth™	56K ^e V.90 (V.92-designed ²⁹) modem in CDC / Agere® chipset None	Bay for X30 battery (same as X31) Other features:			
Ethernet Audio support	Some: 10/100 ethernet on systemboard / Intel 82562EZ chipset (physical layer) / PXE Some: Gigabit Ethernet on systemboard / Intel 82540EP chipset (MAC/PHY) / PXE Soft audio / ICH AC97 controller / DirectSound® support / AD1981B AC97 codec / mono speaker / 0.5 watt / volume up, down, mute buttons / internal mic /	Second battery support (for Ultrabay battery or second 6-cell battery) Stereo speakers (1 watt) Security keyhole, UltraBase lock			
Security Security chip	microphone input jack (pink) / headphone jack (green) / mic in (blue) [all 3.5mm] Power-on password / dual hard disk password / supervisor password / security keyhole IBM Embedded Security Subsystem 2.033 / Atmel® chip / TCG-compliant	Serial and parallel ports			
	3 years/1 yr battery - EasyServ ^{™,19} onsite pickup and delivery / service upgrades ²² avail	Ethernet port and modem port			
256 MB PC2700 512 MB PC2700 DD 1GB PC2700 DD IBM USB 2.0 Por IBM USB Fingerp 60GB HS Hard D 80GB HS Hard D IBM 11a/b/g Wire IBM 11a/b/g Wire Intel PRO/Wirele	DR-SDRAM CL2.5 SOD table Multi-Burner 31 P9834 ThinkPad Dock II 287710L 1 Style Multi-Burner 22 P9163 IBM USB Portable Diskette Drive 05K9276 1 Style Multi-Burner 73P4774 ThinkPad X30 Series Li-Ion Battery (6-cell) 92P1097 1 Style Multi-Burner 73P3557 ThinkPad X30 Series Extended Life Battery 02K7041 1 Style Multi-Burner 09N4273 ThinkPad Ultraportable 56W AC Adapter	56 watt AC Adapter Asset IDTM,34 (system-specific info in chip accessed over network) PC 2001-compliant ACPI 1.0b and 2.0-compliant CIM and DMI 2.0-compliant ENERGY STAR®-compliant International Warranty Service ¹⁷			

Type-model	Processor	GHz	Memory	Screen	Disk	Optica	I	Mini PCI wireless	CDC: mod Bluetooth		ity Ethernet planar		Limited Warranty	Avail date
	Pentium® M Pentium M			12.1" XG/ 12.1" XG/				n; wireless u 11b Wi-Fi ³²	pg ³⁶ Moder Moder					May 2003 May 2003
2884-CRU F	Pentium M	1.4	256MB	12.1" XG	40GB	None	*Intel	11b Wi-Fi	Moder	n Yes	10/100	XP Pro	1 year	May 2003
	Pentium M • These sma					None nodels ar		bWi-Fi ²⁷ <i>of the IBM U</i>	Mod/E Think Exp			XP PIO	i year	May 2003
•	The 2884 I	has a	1 year lim	ited warra	anty									
Positioning Processor				a versatile rocessor				le				SOFT	VARE ¹⁴	
L2 cache	enhar	nced I	ntel Spee		chnology	1 and 400		rontside bus				s XP Profe oft® Windo		
Memory	256M	B std	/ 2GB ma	ax ⁷ / PC2 1	00 266M	Hz DDR		R-SDRAM) /			Profess	sional ²⁰	W3 XI	
Diskette drive								cket / one so X3) or USB-b				-Disk Rec		
Optical drive	None	stand	lard / opti	onal USB	-based op	tical, or	òptiona	al Últrabay 20 k, or ThinkPa	000-based		Preloade	len protect	ted area)	
Ultrabay™200 Disk	00 Suppo	orts U	Itrabay 20	000 device	es in optio	nal X3 U	Iltrabas	se, ThinkPad	Dock, or D		 Access 	IBM	tiono	
Display								and upgradab latrix / 150 ni		iligirbay	 Adobe 			
Craphics cont							•	o latches)				pid Resto AntiVirus		ition)
Graphics cont Graphics - ext	ternal Exteri	nal mo	onitor sup	port via ar	nalog DB-	15 conne	ector/ι	up to 1280x1(PC-DooThinkP	ctor™ ad Utilities	6	
Keyboard	Stand	lard-s	ize ²⁶ keys I button /	s / 97% siz	ze of T Se	eries / 87	-key/ ress-to	18.5mm pitch Select," Inte	n; 2.5mm st ernet Scroll	oke / Bar ¹³ /	1	date Conr	nector™,1	5
ThinkLight™	soft d	ome 🏻	ΓrackPoir	nt cap / sh	ips with c	lassic do	me an	nd soft rim Tra				ector Age		
Dimensions ³				19"; 273n								re Delivery Migration		
Travel weight ² Case material			/: 3.6 lb (: omposit		p cover /	magnesi	um allo	oy bottom ca:	se		 Client S security 	Security So / chip)	oftware (f	or
Battery - type	Li-Ion	6-cel	I / intellige	ent / supp	orts opt E	xtended	Life Ba	attery on bas (3 UltraBase	e (for two b		License	(CD not inc		-i al
Battery - life ¹⁰	Up to	5.5 h	rs; <i>with st</i>	td battery	and optio	nal Exte	nded L	.ife Battery: u				SmartSuit Iotes® Staı		
Architecture	8280	1DBM	I ICH4-M	I/O Contro	oller Hub	(ATA-10	0 EIDE	ıb (MCH-M) / E, PCI bus, et			IDM T	hinleDad V	/2 ₄₌₌	No no TM
								I 82802AC Fi combo contro			IBIVI I	hinkPad ک Opti		sase™
	ext ex serial			bùs 33MI	Hz (PC87	392 Sup	er I/O 1	for infrared [c	lock-based	diskette,		of X3 Ulti abay 2000		
Media slice Docking Static	Optio	nal X	3 UltraBa	se media				y 2000 and h	alf-ciza PCI	elot)	 Optional 	al battery,	CD-ROM	1, CD-RW,
Compact Flash	h slot Com	oact F	lash slo	t / 1 CF+	Гуре II / ѕ	upports				3101)	 Optional 	OM, Zip 2: al HDD ad	apter; for	2nd disk
IEEE 1394	IEEE	1394	(FireWire	us 32-bit / e) Port (4	-pin)		. / : 6		/D 44 /	-1> /	such as 80GB HS Hard Disk 9.5mm (5400 rpm) 09N4273			
Ports								red (4Mbps) al, keyboard,				y Plus-cor 2000 acce		
Wireless anter Mini PCI								ptimal wireles		ception	CD-RV	I/DVD Co		Jltrabay
Wireless up 11b Wi-Fi ³²	og ³⁶ Some	: Wir	eleśś upa	radable w	ith wireles	ss Mini Á	CI opti			action	2000 • Second	d HDD Adı	otr for Ul	22P6991 trabay
		802	.11b, Inte	l 82531 ch	ipset					SCHOIL	2000 • ThinkP	ad Remov	able Dis	08K6068 kette Drive
11a/b Wi-Fi CDC	One C	Comm	unication	s Daughte	er Card (C	DC) soc	ket / cu	5001X chipse stomer acce			Ultraba	ıy 2000 Li-	Ion batte	08K9603 ry02K6646
Modem Bluetooth™	Some	: Bluè	etooth wire	igned ²⁹) m eless tech	nology/ii	n CDC (v	vith mo	odem)				Base botto		
Ethernet Audio support	10/10 Soft a	0 ethe	ernet on s	ystemboa 7 control	rd / Intel 8 er / Direc	32562EŻ tSound®	chipse	et (physical la ort / AD1981E	yer) / PXE 3 AC97 cod	ec/	Bay for Other features	X30 batte	ry (same	e as X31)
	mono	spea	ker / 0.5 v	watt / volu	me up, do	wn, mut	e butto	ns / internal i / mic in (blue	mic /		Second	battery s		or Ultrabay
Security Security chip	Powe	r-on p	assword	/ dual har	d disk pa	ssword/	super	visor pwrd / s e key storage	ecurity key	hole	• Stereo	or second speakers	(1 watt)	• •
	authe	nticat	ion / loca	I file encry	ption / en	hances	VPN se	ecurity ¹⁶ / TC	G-compliar	nt	Serial a	y keyhole, ınd paralle	oltrabas I ports	se lock
Limited warrar								ice upgrades			 Analog 	ouse port DB-15 mo	nitor por	t
128MB PC21 256MB PC21	100 DDR-S	DRAN	/I CL2.5 S	OD 10K	0030 Th	inkPad F	Port Re	UltraBase m plicator II	edia slice	46P7912 74P6733	One US Etherne	SB port (Ve et port and	er 2.0 on modem	ly on X31) port
512MB PC21 1GB PC2700						inkPad N inkPad [ck		287810U 287710U		able feet;		
IBM USB Por	IBM USB Portable Diskette Drive 05K9276 ThinkPad X30 Series Li-Ion Battery (6-cell) 02K7039 IBM Powered USB 2.0 Port Combo Drive 22P9194 ThinkPad X30 Series Extended Life Battery 02K7041						56 watt A	C Adapte ™,34 (syste	r m-specil	ic info in				
20GB Hard D	Disk Drive 9	.5 mm	n (4200 rp	m) 08K	9686 Th	ink $PadN$	/lultiple	Battery Cha	rger II	22P9040 02K6880	chip ad	cessed of complian	ver netw	
80GB HS Ha	40GB HS Hard Disk 9.5mm (5400 rpm) 08K9816 ThinkPad Ultraportable 56W AC Adapter 02K6880 80GB HS Hard Disk 9.5mm (5400 rpm) 09N4273 ThinkPad 72W AC/DC Combo Adapter 22P9010 IBM USB 2.0 Memory Key 256MB 22P9228 ServicePac®.22 1yr IOR 9x5 NBD 30L9188					ACPI 1.0	b and 2.0- DMI 2.0-c	complia						
IBM USB 2.0	BM USB 2.0 Memory Key 512MB 22P9230 ServicePac 2yr IOR 9x5 NBD 30L9189 BM 11a/b/g Wireless CardBus Adapter 31P9101 ServicePac 3yr IOR 9x5 NBD 30L9195				IBM Rap	id Restore	PĊ ava	ilable to						
IBM 11a/b/g \	Wireless M	ini PC	Adapter	31P	9701 Se	rvicePa	c 2yr P	&L P/U Depo		30L9191	Internation	t software onal Warra	anty Šerv	rice ¹⁷
Intel PRO/Wi SonyEricsson	n® GC83 E			26K	3393 Se	rvicePa	c 5ýr P	&L P/U Depo &L P/U Depo	ot	30L9192 69P9197	suppo	7 day ¹⁸ to	ne warrar	nty¹² via
IBM M400 Pr	ojector			003	7A04 Ot	her optio	ns at il	bm.com /pc/ι	ıs/accesso	ries	800-IB	M-SERV (426-737	8)

Type-model Prod	cessor GHz Memory		ical in ThinkPad aBase X3 UltraBase™		nodem/Security Ethernet Avail ooth™ chip planar Preload date
2884-BSU Penti 2884-BSU Penti 2884-CWU Penti 2884-JGU Penti • The	um®M 1.3 256MB 12 umM 1.3 256MB 12 umM 1.4 256MB 12 umM 1.4 256MB 12	2.1" XGA 40GB Co 2.1" XGA 40GB Co pusiness (SMB) mod	/D X3 UltraBase * ombo X3 UltraBase * ombo X3 UltraBase	Intel 11b Wi-Fi M	odem Yes 10/100 XP Pro Jun 2003 lodem Yes 10/100 XP Pro Jun 2003 lodem Yes 10/100 XP Pro Jun 2003 lod/Blue Yes Gigabit XP Pro Jun 2003
Positioning Processor L2 cache Memory	Ultimate mobility in a v Intel® Pentium® M Pro enhanced Intel SpeedS 1MB / on die (at proce 256MB std / 2GB max two 200-pin SO-DIMM	ocessor 1.3 ór 1.4Gh Step™ technology¹ a ssor speed) / ECC 7 / PC2100 266MHz	Hz with 'nd 400MHz system but DDR1 (DDR-SDRAN	Л) / non-parity / CL2.5 /	SOFTWARE ¹⁴ Windows XP Professional - Microsoft® Windows® XP Professional ²⁰ • ConfigSafe®
	Some: DVD-ROM/8> Some: DVD-ROM/D0 Supports Ultrabay 200 20 or 40GB*, 4200 rpm 12.1" (308mm) XGA (easy-open cover to unitrati's Mobility RADEC Il External monitor support	Å-3.3X ⁹ speed ∫boot -RW / 16X/10X/24X 0 devices in standar n, 9.5mm, ATA-100 / 1024x768) TFT coll latch and open with o DN® / AGP 4X / 16M ort via analog DB-15	able / removable from /8X21 speed / removal d X31 UltraBase (or op removable and upgra or / Active Matrix / 15 one hand (two latches B DDR1 (DDR-SDRA connector / up to 1280	ble from Últrabay 2000 tional ThinkPad Dock II) dable / 9.5mm high bay 0 nits /) MM) 0x1024x16.7M at 85Hz	
Keyboard ThinkLight™	Standard-size ²⁶ keys / Access IBM button / p soft dome TrackPoint Illuminates the keyboa	alm rest / TrackPoin cap / ships with clas ard to improve visibili	it [®] , "Press-to-Select," sic dome and soft rim ity in low-light condition	Internet Scroll Bar ¹³ / n TrackPoint cap ons	IBM Update Connector ^{TM,15} InterVideo WinDVD RecordNow and DLA (combo mods) Downloadable
Dimensions ³ Travel weight ² Case material Battery - type Battery - life ¹⁰	without X3 UltraBase: with X3 UltraBase and with battery: 3.6 lb (1.6 Titanium composite Li-lon 6-cell / intelliger supports Ultrabay batt Up to 6 hrs; with std battery with st	l optical: 10.8" x 8.9" 65kg); with X3 Ultraß in the top cover / ma nt / supports opt Exte ery or optional 6-cel	x 2.0-2.3"; 273 x 227 Base and optical: 5.6 gnesium alloy bottomended Life Battery on alloy battery in X3 UltraBa	x 51-58mm lb (2.54kg) case base (for two batteries) ase (for two batteries)	IBM Director Agent Software Delivery Assistant System Migration Assistant Client Security Software (for security chip) License (CD not included) Lotus® SmartSuite® Millennium and
Architecture Media slice Docking Station Compact Flash slo PC Card Std slot IEEE 1394 Ports	Intel 855PM chipset // 82801DBM ICH4-M I/0 Low Pin Count (LPC) i bus 2.2 32-bit, 33MHz (ext expansion) / LPC b serial, parallel]) X3 UltraBase media s Optional ThinkPad Do t Compact Flash slot / One Type II / CardBus IEEE 1394 (FireWire) Two USB (version 2.0 RJ-45 (ethernet) / para	O Controller Hub (AT nterface, USB [Blue (Ricoh® R5C522 Car us 33MHz (PC8739) slice (see right side) ock or Dock II (inclu 1 CF+ Type II / sup; 5 32-bit / PCMCIA 2. port (4-pin)) / external DB-15 m	ΓA-100 EIDE, PCI but tooth]) / Intel 82802A rdBus/1394 combo co 2 Super I/O for infrare des Ultrabay 2000 an ports optional IBM Mi 1 / integrated door	s, ethernet MAC, C Firmware Hub / PCI ontroller, Mini PCI, ed [dock-based diskette, ad half-size PCI slot) crodrive TM ps) / RJ-11 (modem) /	Lotus Notes® Stand-alone Client IBM ThinkPad X3 UltraBase™ (standard with B5U/BSU/CWU/JGU)
Wireless antenna Mini PCI Wireless upg ³⁶ 11b Wi-Fi ³² 11a/b Wi-Fi ²⁷ CDC Modem Bluetooth™ Ethernet Audio support	UltraConnect™ antenn One Mini PCI type III s Some: Wireless upgra Some: 11b Wi-Fi³² wir 802.11b, Intel8 Some: 11a/b Wi-Fi²² v One Communications 56K° V.90 (V.92-desig Some: Bluetooth wirel Some: 10/100 etherne Some: Gigabit etherne Soft audio / ICH AC97 mono speaker / 0.5 w microphone input jack	clot (Communication Idable with wireless I leless 4, Mini PCI, Inte 1:2531 chipset wireless 4, Mini PCI, A Daughter Card (CDC ned 2:3) modem in CDC ess technology / in Ct on systemboard / I let on systemboard / I controller / Direct Sc att / volume up, dowr (pink) / headphone	ś Bay) / customer upo Mini PCI options el PRO/Wireless 2100 theros™ AR5001X ch c) socket / customer a C / Agere® chipset DC (with modem) ntel 82562EZ chipset ntel 82540EP chipset puttons / interijack (green) / mic in (i	network Connection ipset ccessible (physical layer) / PXE (MAC/PHY) / PXE 81B AC97 codec / nal mic /	CD-RW/DVD Combo IV Ultrabay 2000 22P6991 Second HDD Adptr for Ultrabay 2000 08K6068 ThinkPad Removable Diskette Drive 08K9603 Ultrabay 2000 Li-Ion battery02K6646 X3 UltraBase bottom contains: Bay for X30 battery (same as X31) Other features: Second battery support (for Ultrabay battery or second 6-cell battery) Stereo speakers (1 watt)
Security chip	IBM Embedded Secu authentication / local fi 1 year - EasyServ™.19	rity Subsystem 2.0 ile encryption / enha) ³³ / hardware key stor nces VPN security ¹⁶ /	rage / multi-factor TCG-compliant	Serial and parallel ports PS/2 mouse port Analog DB-15 monitor port
256MB PC2100 E 512MB PC2100 E 1GB PC2700 DD IBM USB Portabli IBM Powered US 40GB HS Hard D 80GB HS Hard D IBM 11a/b/g Wire IBM 11a/b/g Wire Intel PRO/Wireles SonyEricsson® G	B 2.0 Port Combo Drive isk 9.5mm (5400 rpm) isk 9.5mm (5400 rpm) less CardBus Adapter less Mini PCI Adapter ss 2200BG Mini PCI C83 EDGE PC Card C/DC Combo Adapter	D 10K0030 Think Think 10K0032 31P9834 05K9276 22P9194 08K9816 09N4273 31P9101 31P9701 31P9701 26K3393 22P9010 0037A04 Think Servi 26K3393 22P9010 Other		74P6733 287810L 287710L 3 Battery (6-cell) 02K7039 ded Life Battery 02K7041 Charger II 22P9040 5 NBD 30L9188 BD 30L9189 BD 30L9195 Depot 30L9191 Depot 30L9192 Depot 69P9197 pc/us/accessories	Retractable feet; 1.41 lb; 638g 56 watt AC Adapter Asset IDTM.34 (system-specific info in chip accessed over network) PC 2001-compliant ACPI 1.0b and 2.0-compliant CIM and DMI 2.0-compliant IBM Rapid Restore PC available to protect software image and data International Warranty Service ¹⁷

Type-model Prod	cessor GHz Memory Screen Disk UltraBase X3 UltraBase™ wireless Blueto			
2884-2NU Penti 2884-2WU Penti 2884-NRU Penti • <i>The</i>	ium M 1.4 256MB 12.1" XGA 20GB Combo X3 UltraBase * Intel 11b Wi-Fi32 Mc	odem Yes 10/100 XP Pro Oct 2003 odem Yes 10/100 XP Pro Oct 2003 odem Yes Gigabit XP Pro Oct 2003		
Positioning Processor L2 cache Memory	Ultimate mobility in a versatile ultraportable; one spindle Intel® Pentium® M Processor 1.4 or 1.6GHz with enhanced Intel SpeedStep™ technology¹ and 400MHz system bus 1MB / on die (at processor speed) / ECC 256MB std / 2GB max² / PC2700 333MHz DDR-SDRAM (memory controller limits speed to 266MHz) / non-parity / CL2.5 / two 200-pin SO-DIMM sockets / std memory in one socket / one socket available	SOFTWARE ¹⁴ Windows XP Pro models - Microsoft® Windows® XP Professional ²⁰ Disk-to-Disk Recovery (in hidden protected area)		
Diskette drive DVD Combo Ultrabay™2000 Disk Display	None standard / use optional Ultrabay TM -based (inX3) or USB-based diskette drive <i>Some</i> : DVD-ROM / 8X-3.3X ⁹ speed / bootable / removable from Ultrabay 2000 of X3 <i>Some</i> : DVD-ROM/CD-RW / 16X/10X/24X/8X ²¹ speed / removable from Ultrabay 2000 Supports Ultrabay 2000 devices in std or opt X3 UltraBase (or opt ThinkPad Dock II) 20 or 40GB ⁸ , 4200 rpm, 9.5mm, ATA-100 / removable and upgradable / 9.5mm high bay 12.1 " (308mm) XGA (1024x768) TFT color / Active Matrix / 150 nits / easy-open cover to unlatch and open with one hand (two latches)	Preloaded • Access IBM • Access Connections • Adobe Acrobat Reader • IBM Rapid Restore™ Ultra • Norton AntiVirus (OEM edition) • PC-Doctor™ • ThinkPad Utilities		
Graphics - externa Keyboard ThinkLight™	r ATI® Mobility RADEON® / AGP 4X / 16MB DDR-SDRAM al External monitor support via analog DB-15 connector / up to 1280x1024x16.7M at 85Hz Standard-size ²⁶ keys / 97% size of T Series / 87-key / 18.5mm pitch; 2.5mm stoke / Access IBM button / palm rest / TrackPoint®, "Press-to-Select," Internet Scroll Bar ¹³ / soft dome TrackPoint cap / ships with classic dome and soft rim TrackPoint cap Illuminates the keyboard to improve visibility in low-light conditions	IBM Update Connector™.15 InterVideo WinDVD (combo, DVD) RecordNow and DLA (combo model Downloadable IBM Director Agent Software Delivery Assistant		
Dimensions ³ Travel weight ² Case material Battery - type Battery - life ¹⁰	without X3 UltraBase: 10.7" x 8.8" x .98-1.19"; 273mm x 223mm x 24.9-30.2mm with X3 UltraBase and optical: 10.8" x 8.9" x 2.0-2.3"; 273 x 227 x 51-58mm with battery: 3.6 lb (1.65kg); with X3 UltraBase and optical: 5.6 lb (2.54kg) Color: black; All: titanium composite in the top cover / magnesium alloy bottom case Li-Ion 6-cell / intelligent / supports opt Extended Life Battery on base (for two batteries) supports Ultrabay battery or optional 6-cell battery in X3 UltraBase (for two batteries) Up to 6 hrs; with std battery and optional Extended Life Battery: up to 10.1 hrs	Software Delivery Assistant System Migration Assistant Client Security Software (for security chip) License (CD not included) Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client		
Architecture Media slice Docking Station Compact Flash slo PC Card Std slot IEEE 1394 Ports	Intel 855PM chipset / 82855PM Memory Controller Hub (MCH-M) / 82801DBM ICH4-M I/O Controller Hub (ATA-100 EIDE, PCI bus, ethernet MAC, Low Pin Count (LPC) interface, USB [Bluetooth]) / Intel 82802AC Firmware Hub / PCI bus 2.2 32-bit, 33MHz (Ricoh® R5C522 CardBus/1394 combo controller, Mini PCI, ext expansion) / LPC bus 33MHz (PC87392 Super I/O for infrared [dock-based diskette, serial, parallel]) Some: X3 UltraBase media slice (see right side) Optional ThinkPad Dock or Dock II (includes Ultrabay 2000 and half-size PCI slot) t Compact Flash slot / 1 CF+ Type II / supports optional IBM Microdrive™ One Type II / CardBus 32-bit / PCMCIA 2.1 / integrated door IEEE 1394 (FireWire) port (4-pin) Two USB (version 2.0) / external DB-15 monitor / infrared (4Mbps) / RJ-11 (modem) / RJ-45 (ethernet) / parallel / IEEE 1394 (4-pin) / no serial, keyboard, or mouse ports	IBM ThinkPad X3 UltraBase™ (standard with 25U/2WU) Right bay of X3 UltraBase supports most Ultrabay 2000 options: • Optional battery, CD-ROM, CD-RW DVD-ROM, Zip 250MB, Combo • Optional HDD adapter; for 2nd disk such as 80GB Hard Disk 9.5mm (4200 rpm) 08K9869 • Ultrabay Plus-compatible Ultrabay 2000 accessories:		
Wireless antenna Mini PCI Wireless upg ³⁶ 11b Wi-Fi ³² CDC Modem	UltraConnect™ antenna built into the display cover for optimal wireless signal reception One Mini PCI type III slot (Communications Bay) / customer upgradeable Some: wireless upgradable with wireless Mini PCI options Some: 11b Wi-Fi³² wireless⁴, Mini PCI, Intel PRO/Wireless 2100 Network Connection 802.11b, Intel 82531 chipset One Communications Daughter Card (CDC) socket / customer accessible 56K⁴ V.90 (V.92-designed²³) modem in CDC / Agere® chipset	CD-RŴ/DVD Combo IV Ultrabay 2000 22P699 Second HDD Adptr for Ultrabay 2000 08K606 ThinkPad Removable Diskette Driv 08K960 Ultrabay 2000 Li-Ion battery02K664		
Bluetooth™ Ethernet Audio support	None Some: 10/100 ethernet on systemboard / Intel 82562EZ chipset (physical layer) / PXE Some: Gigabit Ethernet on systemboard / Intel 82540EP chipset (MAC/PHY) / PXE Soft audio / ICH AC97 controller / DirectSound® support / AD1981B AC97 codec / mono speaker / 0.5 watt / volume up, down, mute buttons / internal mic / microphone input jack (pink) / headphone jack (green) / mic in (blue) [all 3.5mm]	X3 UltraBase bottom contains: • Bay for X30 battery (same as X31) Other features: • Second battery support (for Ultrabay battery or second 6-cell battery) • Stereo speakers (1 watt)		
Security Security chip	Power-on password / dual hard disk password / supervisor password / security keyhole IBM Embedded Security Subsystem 2.0 ³³ / hardware key storage / multi-factor authentication / local file encryption / enhances VPN security ¹⁶ / TCG-compliant	Security keyhole, UltraBase lock Serial and parallel ports PS/2 mouse port		
128 MB PC2700 256 MB PC2700 512 MB PC2700 1GB PC2700 DE IBM USB Portabl IBM USB 2.0 Por 30GB Hard Disk 40GB HS Hard D 80GB Hard Disk IBM 11a/b/g Wire IBM 11a/b/g Wire Intel PRO/Wirele Cisco Aironet Wi	22P5297 ThinkPad X30 Series Extended Life Battery 02K7041 9.5mm (4200 rpm) 09N4268 ThinkPad Ultraportable 56W AC Adapter 02K6880 Drive 9.5mm (4200 rpm) 08K9816 ThinkPad 72W AC/DC Combo Adapter 02K6880 Drive 9.5mm (4200 rpm) 08K9869 ServicePac 322 1yr IOR 9x5 NBD 30L9198 Beless CardBus Adapter 31P9101 ServicePac 3yr IOR 9x5 NBD 30L9195 Beless Mini PCI Adapter 31P8601 ServicePac 5yr IOR 9x5 NBD 30L9195 Ses 2100 3B Mini PCI 31P8601 ServicePac 3yr P&L P/U Depot 30L9192 ServicePac 5yr P&L P/U Depot 69P9197	Analog DB-15 monitor port One USB port (Ver 2.0 only on X31) Ethernet port and modem port Retractable feet; 1.41 lb; 638g 6 watt AC Adapter Asset ID ^{TM-34} (system-specific info in chip accessed over network) PC 2001-compliant ACPI 1.0b and 2.0-compliant CIM and DMI 2.0-compliant IBM Rapid Restore Ultra available to protect software image and data International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free hardware support during the warranty ¹²		
ci i ito/wiiele	ss 2200BG Mini PCI 73P2801 Other options at ibm.com/pc/us/accessories	- appoint adming the manuality		

Type-model Prod	cessor GHz Memory Sc	Optical in reen Disk UltraBase	ThinkPad X3 UltraBase™	Mini PCI wireless	CDC: mo	odem/ Security Ethernet Avail oth™ chip planar Preload date
2885-PWU Penti 2885-RGU Penti • The	ium [®] M 1.6 256MB 12.1 ¹ ium M 1.6 512MB 12.1 ¹ ese small and medium bus e 2885 has a 3 year limited	'XGA 40HS Combo <i>iness (SMB) models a</i> l	X3 UltraBase 11	a/b/g Wi-Fi ³²	Mode	em Yes Gigabit XP Pro Oct 2003 em Yes Gigabit XP Pro Oct 2003
Positioning Processor L2 cache Memory	Ultimate mobility in a vers Intel® Pentium® M Proce enhanced Intel SpeedSte 1MB / on die (at processo 256 or 512MB std / 2GB speed to 266MHz) / non- std memory in one socke	satile ultraportable; one ssor 1.6GHz with p™ technology¹ and 40 or speed) / ECC max ⁷ / PC2700 333MH parity / CL2.5 / two 200	0MHz system bus Iz DDR1 (memory c 0-pin SO-DIMM soc		ts	SOFTWARE ¹⁴ Windows XP Professional - Microsoft® Windows® XP Professional ²⁰ \$\(\text{Disk-to-Disk Recovery}\)
Diskette drive Combo Ultrabay™2000 Disk	None standard / use optic DVD-ROM/CD-RW / 16X Supports Ultrabay 2000 d 40GB³ (4200 rpm) or 40Gl 9.5mm high bay 12.1" (308mm) XGA (10) easy-open cover to unlate	onal Ultrabay TM -based /10X/24X/8X ²¹ speed / levices in standard X3 B (HS 5400 rpm), 9.5m 24x768) TFT color / A	(inX3) or USB-base removable from Uli UltraBase (or optior m, ATA-100 / remov ctive Matrix / 150 ni	rabay 2000 nal ThinkPad able and upgi	Dock II)	(in hidden protected area) Preloaded • Access IBM • Access Connections • Adobe Reader • IBM Rapid Restore™ Ultra • Norton AntiVirus (OEM edition) • PC-Doctor™
	or ATI® Mobility RADEON® al External monitor support standard-size® keys / 97 Access IBM button / palm soft dome TrackPoint cap	" / AGP 4X / 16MB DD via analog DB-15 conn '% size of T Series / 87 n rest / TrackPoint®, "P	R1 (DDR-SDRAM) ector / up to 1280x107-key / 18.5mm pitch ress-to-Select," Into	n; 2.5mm sto ernet Scroll E	ke/ Bar ¹³ /	 ThinkPad Utilities IBM Update Connector^{TM,15} InterVideo WinDVD RecordNow and DLA Downloadable
ThinkLight™ Dimensions³ Travel weight² Case material	Without X3 UltraBase: 10 with X3 UltraBase and op with battery: 3.6 lb (1.65k Color: black; All: titaniu	to improve visibility in l .7" x 8.8" x .98-1.19"; 2 otical: 10.8" x 8.9" x 2. g); with X3 UltraBase im composite in the to	ow-light conditions 273mm x 223mm x 2 0-2.3"; 273 x 227 x and optical: 5.6 lb (2 op cover / magnesiu	24.9-30.2mm 51-58mm 2.54kg) m alloy botto	m case	IBM Director Agent Software Delivery Assistant System Migration Assistant Client Security Software (for security chip) License (CD not included)
Battery - type Battery - life ¹⁰ Architecture	Li-Ion 6-cell / intelligent / supports Ultrabay battery Up to 5.5 hrs; with std ba Intel 855PM chipset / 828 82801DBM ICH4-M I/O C Low Pin Count (LPC) inte	or optional 6-cell batt ttery and optional Extension Memory Control Controller Hub (ATA-10	ery in X3 Ul ^t raBase ended Life Battery: u oller Hub (MCH-M) oo EIDE, PCI bus, e	(for two batte up to 10.1 hrs thernet MAC,	eries)	- Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client IBM ThinkPad X3 UltraBase™ (standard with PWU/RGU)
PC Card Std slot IEEE 1394	PCI bus 2.2 32-bit, 33MHz ext expansion) / LPC bus serial, parallel]) X3 UltraBase media slic Optional ThinkPad Dock t Compact Flash slot / 1 (One Type II / CardBus 32 IEEE 1394 (FireWire) po	z (Ricoh® R5C522 Care 33MHz (PC87392 Sup ce (see right side) c or Dock II (includes U CF+ Type II / supports 2-bit / PCMCIA 2.1 / int ort (4-pin)	Bus/1394 combo coer I/O for infrared [coer I/O for infrared [coer I/O for infrared [coer I/O for infrared I/	ontroller, Min dock-based d alf-size PCI s drive™	i PCI, iskette, lot)	Right bay of X3 UltraBase supports most Ultrabay 2000 options: Optional battery, CD-ROM, CD-RW, DVD-ROM, Zip 250MB, Combo Optional HDD adapter; for 2nd disk such as 80GB HS Hard Disk 9.5mm (5400 rpm) 09N4273 Ultrabay Plus-compatible
Mini PCI 11b Wi-Fi ³²	Two USB (version 2.0) / 6 RJ-45 (ethernet) / paralle UltraConnect™ antenna b One Mini PCI type III slot Some: 11b Wi-Fi³² wirele 802.11b, Intel 825 Some: 11a/b/g Wi-Fi³² wi	uilt into the display cov (Communications Bay ss ⁴ , Mini PCI, Intel PRO 31 chipset	no serial, keyboard er for optimal wirele r) / customer upgrac D/Wireless 2100 Ne	, or mouse po ss signal rece leable twork Connec	ption	Ultrabay 2000 accessories: CD-RW/DVD Combo IV Ultrabay 2000 22P6991 Second HDD Adapter for Ultrabay 2000 08K6068 ThinkPad Removable Diskette Drive
CDC Modem Bluetooth™ Ethernet Audio support	One Communications Da 56K ⁶ V.90 (V.92-designer None Gigabit Ethernet on syste Soft audio / ICH AC97 co mono speaker / 0.5 watt/	ughter Card (CDC) soc 1 ²⁹) modem in CDC / Aq mboard / Intel 82540EI ntroller / DirectSound [©]	sket / customer acce gere® chipset P chipset (MAC/PH) P support / AD1981E	ssible () / PXE 3 AC97 code	o/	 Ultrabay 2000 Li-Ion battery02K6646 Multi-Burner Plus Ultrabay Enhanced Drive 73P3312 X3 UltraBase bottom contains: Bay for X30 battery (same as X31)
Security Security chip	microphone input jack (pi Power-on password / dua IBM Embedded Securit; authentication / local file 3 years/1 yr battery - Eas	ink) / headphone jack (al hard disk password y Subsystem 2.0 ³³ / ha encryption / enhances	green) / mic in (blue / supervisor passwo ardware key storage VPN security ¹⁶ / TC	e) [all 3.5mm] ord / security e / multi-facto G-compliant	keyhole r	Other features: Second battery support (for Ultrabay battery or second 6-cell battery) Stereo speakers (1 watt) Security keyhole, UltraBase lock
128 MB PC2700 256 MB PC2700 512 MB PC2700 1GB PC2700 DE IBM USB Portab	DDR-SDRAM CL2.5 SOD DDR-SDRAM CL2.5 SOD DDR-SDRAM CL2.5 SOD DR-SDRAM CL2.5 SOD	31P9828 IBM Think 31P9830 ThinkPad 31P9832 ThinkPad 31P9834 ThinkPad 05K9276 ThinkPad	Pad X3 UltraBase m Port Replicator II Mini Dock	edia slice 4	6P7912 74P6733 287810U 287710U 22K7039	 Serial and parallel ports PS/2 mouse port Analog DB-15 monitor port One USB port (Ver 2.0 only on X31) Ethernet port and modem port Retractable feet; 1.41 lb; 638g
IBM USB 2.0 Por 30GB Hard Disk 40GB HS Hard D 80GB HS Hard D IBM USB 2.0 Me IBM 11a/b/g Wire IBM 11a/b/g Wire Intel PRO/Wirele	table 40GB Hard Disk 9.5mm (4200 rpm) Disk 9.5mm (5400 rpm) Disk 9.5mm (5400 rpm) Mory Key 256MB Mory Key 512MB Beless CardBus Adapter Beless Mini PCI Adapter Ses 2200BG Mini PCI GC83 EDGE PC Card	22P7196 ThinkPad 09N4268 ThinkPad 09K4273 IBM Trave 22P9228 ServicePa 31P9101 ServicePa 31P9701 ServicePa 73P2801 ServicePa 26K3393 ServicePa	Multiple Battery Cha Ultraportable 56W A 72W AC/DC Combo I USB Keyboard with c 3yr IOR 9x5 NBD c 4yr IOR 9x5 NBD c 5yr IOR 9x5 NBD c 5yr IOR 9x5 NBD c 5yr P&L P/U Depc c 5yr P&L P/U Depc cns at ibm.com/pc/	rger II 2 C Adapter 2 Adapter 2 1 UltraNav 3 BD 3 6 ot 6	22P9040 22K6880 22P9010 31P9493 30L9190 30L9197 59P9198 59P9200 59P9199 59P9201	56 watt AC Adapter Asset ID ^{TM,34} (system-specific info in chip accessed over network) PC 2001-compliant ACPI 1.0b and 2.0-compliant CIM and DMI 2.0-compliant IBM Rapid Restore Ultra available to protect software image and data International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free warranty support during the warranty ¹²

Type-model Prod	cessor GHz Memory Sc	reen Disk	Optical in UltraBase	ThinkPad X3 UltraBase™	Mini PCI wireless	CDC: mo	odem/ Security Ethernet Avail oth™ chip planar Preload date
2885-4WU Penti • <i>The</i>	ium®M 1.7 256MB 12.1 ² iumM 1.7 512MB 12.1 ² ese small and medium bus. e 2885 has a 3 year limited	'XGA 40HS <i>iness (SMB)</i>	Combo	X3 UltraBase II	3M 11b/g ³²	Mode	em Yes Gigabit XP Pro Feb 2004
Positioning Processor L2 cache Memory	Ultimate mobility in a vers Intel® Pentium® M Proce enhanced Intel SpeedSte 1MB / on die (at processo 256 or 512MB std / 2GB i speed to 266MHz) / non-	satile ultrapo ssor 1.7GHz p™ technolog or speed) / E max ⁷ / PC27	with of which with a with of white with a wi	, DMHz system bus z DDR1 (memory		its	SOFTWARE ¹⁴ Windows XP Professional - Microsoft® Windows® XP Professional ²⁰ \$Disk-to-Disk Recovery
Diskette drive Combo Ultrabay™ 2000 Disk Display	std memory in one socke None standard / use optic DVD-ROM/CD-RW / 16X X3 UltraBase Supports Ultrabay 2000 d 40GB ⁸ (HS 5400 rpm), 9.5 12.1" (308mm) XGA (102 easy-open cover to unlate	onal Ultrabay /10X/24X/8> evices in sta mm, ATA-10 24x768) TFT th and open v	r™-based ((21 speed / ndard X3 U 0 / remova color / Ad with one ha	inX3) or USB-bas removable from U JItraBase (or optional ble and upgradab stive Matrix / 150 and (two latches)	Jltrabay 2000 i onal ThinkPad e / 9.5mm high nits /	in Dock II)	(in hidden protected area) Preloaded • Access IBM • Access Connections • Adobe Reader • IBM Rapid Restore™ Ultra • Norton AntiVirus (OEM edition) • PC-Doctor™ • ThinkPad Utilities
	rATI® Mobility RADEON® al External monitor support valexes IBM button / palm soft dome TrackPoint car Illuminates the keyboard without X3 UltraBase: 10 with X3 UltraBase and op	via analog DE % size of T S rest / Track o / ships with to improve vi 7" x 8.8" x .9	3-15 conne Series / 87 Point®, "P classic do isibility in le 98-1.19"; 2	ector / up to 1280x -key / 18.5mm pit ress-to-Select," Ir ome and soft rim Tow-light condition 73mm x 223mm >	f024x16.7M a ch; 2.5mm sto ternet Scroll E rackPoint cap s 24.9-30.2mm	oke / Bar ¹³ /	IBM Update Connector™.15 InterVideo WinDVD RecordNow and DLA Downloadable IBM Director Agent Software Delivery Assistant System Migration Assistant Client Security Software (for
Travel weight ² Case material Battery - type Battery - life ¹⁰ Architecture	with battery: 3.6 lb (1.65k Color: black; All: titaniu Li-lon 6-cell / intelligent / s supports Ultrabay battery Up to 5.5 hrs; with std bat Intel 855PM chipset / 828 82801DBM ICH4-M I/O C	g); with X3 L m composing supports option of the continuation of the continuation of the controller Huise Market and controller Huise Market Andrew Market and controller Huise Market and controller Huise Market and controller Huise Market and controller Huise Market and controller Huise Market and controller Huise Market and controller Huise Market and controller Huise Market Andrew Market Andrew Market Andrew Market Andrew Market Andrew Market Andrew Market Andrew Market Andrew Market Andrew Market Andrew Market Andrew Market Andrew Market Andrew Market Andrew Market Andrew Market Andrew Market Andrew Market Andrew Market Andrew Market M	UltraBase a te in the to Extended 6-cell batte ional Exter ory Contro b (ATA-10	and optical: 5.6 lb p cover / magnes Life Battery on ba ery in X3 UltraBas anded Life Battery. Iler Hub (MCH-M 0 EIDE, PCI bus,	(2.54kg) fum alloy botto ase (for two bate e (for two batte up to 10.1 hrs a / ethernet MAC	tteries) eries) s	security chip) License (CD not included) - Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client IBM ThinkPad X3 UltraBase™
Media slice Docking Station Compact Flash slo PC Card Std slot IEEE 1394 Ports	Low Pin Count (LPC) inte PCI bus 2.2 32-bit, 33MHz ext expansion) / LPC bus serial, parallel]) X3 UltraBase media slic Optional ThinkPad Dock t Compact Flash slot / 1 (One Type II / CardBus 32 IEEE 1394 (FireWire) po Two USB (version 2.0) / 6	: (Ricon® R50 33MHz (PC8 se (see right stor Dock II (i CF+ Type II / !-bit / PCMC rt (4-pin)	C522 Card 37392 Sup side) includes U supports A 2.1 / inte	Bus/1394 combo er I/O for infrared Itrabay 2000 and optional IBM Micr egrated door	controller, Min [dock-based c half-size PCI s odrive™	ni PCI, diskette, slot)	(standard with 4LU/4WU) Right bay of X3 UltraBase supports most Ultrabay 2000 options: • Optional battery, CD-ROM, CD-RW, DVD-ROM, Zip 250MB, Combo • Optional HDD adapter; for 2nd disk such as 80GB HS Hard Disk 9.5mm (5400 rpm) 09N4273 • Ultrabay Plus-compatible
Wireless antenna Mini PCI 11b Wi-Fi ³² IBM 11b/g ³² CDC Modem	RJ-45 (ethernet) / paralle	I / IEEE 1394 uilt into the d (Communica ss ⁴ , Mini PCI 31 chipset wireless ⁴ , Mi ughter Card	4 (4-pin) / risplay coverations Bay, Intel PRC	no serial, kèyboar er for optimal wirel) / customer upgra b/Wireless 2100 N ueros™ AR5004G ket / customer acc	d, or mouse po ess signal rece adeable etwork Connec chipset	orts [*] eption	Ultrabay 2000 accessories: CD-RW/DVD Combo IV Ultrabay 2000 22P6991 Second HDD Adapter for Ultrabay 2000 08K6068 ThinkPad Removable Diskette Drive 08K9603 Ultrabay 2000 Li-Ion battery02K6646 Multi-Burner Plus Ultrabay
Bluetooth™ Ethernet Audio support Security Security chip	None Gigabit Ethernet on system Soft audio / ICH AC97 comono speaker / 0.5 watt / microphone input jack (pi Power-on password / dua IBM Embedded Security authentication / local file 6	mboard / Intentroller / Director	el 82540EF ectSound® down, mut- ione jack (password / n 2.033 / ha	chipset (MAC/Ph support / AD198 e buttons / interna green) / mic in (bli supervisor passy rdware key stora	BAC97 code I mic / ue) [all 3.5mm] vord / security ge / multi-facto] keyhole or	Enhanced Drive 73P3312 X3 UltraBase bottom contains: Bay for X30 battery (same as X31) Other features: Second battery support (for Ultrabay battery or second 6-cell battery) Stereo speakers (1 watt)
128 MB PC2700 256 MB PC2700 512 MB PC2700 1GB PC2700 DE IBM USB Portab	3 years/1 yr battery - Eas DDR-SDRAM CL2.5 SOD DDR-SDRAM CL2.5 SOD DDR-SDRAM CL2.5 SOD DR-SDRAM CL2.5 SOD	31P9828 31P9830 31P9832 31P9834 05K9276	nsite pickup BM ThinkF ThinkPad F ThinkPad N ThinkPad I ThinkPad I	o and delivery / se Pad X3 UltraBase Port Replicator II Mini Dock	rvice upgrades media slice	s ²² avail 46P7912 74P6733 287810U 287710U 02K7039	Security keyhole, UltraBase lock Serial and parallel ports PS/2 mouse port Analog DB-15 monitor port
IBM USB 2.0 Por IBM USB 2.0 Me 30GB Hard Disk 40GB HS Hard D 80GB HS Hard D ThinkPad Monito IBM 11a/b/g Wire IBM 11a/b/g Wire	table Multi-Burner mory Key 512MB 9.5mm (4200 rpm) bisk 9.5mm (5400 rpm) bisk 9.5mm (5400 rpm) or Stand 2001 eless CardBus Adapter eless Mini PCI Adapter sss 2200BG Mini PCI tor	22P9163 - 22P9230 - 09N4268 - 09N4273 - 22P5265 - 31P9101 - 31P9701 - 73P2801 - 0038A04 - 5	ThinkPad M ThinkPad U ThinkPad 7 BM USB T ServicePad ServicePad ServicePad ServicePad ServicePad	JUST Selles Extending the lattery Childrian Battery Childran Combined Favel Keyboard w. 22 2yr IOR 9x5 NBI composition Syr P&L P/U Depose Syr P&L P/U Depose at Ibm.com/position Syr Ibm.com/position Syr P&L P/U Depose at Ibm.com/position Syr P&L P/U Depose Syr P&L P/U Depose at Ibm.com/position Syr P&L P/U Depose Syr P&L P/U Dep	arger II 2 AC Adapter 0 O Adapter 1 O Hit Ditranav 1 O Hi	22P9040 02K6880 22P9010 31P9490 30L9190 30L9197 69P9198 69P9200 69P9199	Asset ID™.34 (system-specific info in chip accessed over network) PC 2001-compliant ACPI 1.0b and 2.0-compliant CIM and DMI 2.0-compliant IBM Rapid Restore Ultra available to protect software image and data International Warranty Service¹7

Type-model Proce	Optical in ThinkPad Mini PCI CDC: modem/ Sec ssor GHz Memory Screen Disk UltraBase X4 UltraBase™ wireless Bluetooth™ chip	Ethernet Battery WH (W) GbI (G) Avail pplanar cells Preload Entry (Ent) date
2371-1CU Pentiu 2371-57U Pentiu 2371-67U Pentiu	mM 1.0 256MB 12.1" XGA 20GB None Optional *Intel 11b Wi-Fi ³² Modem YesmM 1.2 256MB 12.1" XGA 40GB None Optional Open; wireless upg Modem YesmM 1.2 256MB 12.1" XGA 40GB None Optional Open; wireless upg Modem YesmM 1.2 256MB 12.1" XGA 40GB None Optional Open; wireless upg Modem YesmM 1.2 256MB 12.1" XGA 40GB None Optional Open; wireless upg Modem YesmM 1.2 256MB 12.1" XGA 40GB None Optional Open; wireless upg Modem YesmM 1.2 256MB 12.1" XGA 40GB None Optional Open; wireless upg Modem YesmM 1.2 256MB 12.1" XGA 40GB None Optional Open; wireless upg Modem YesmM 1.2 256MB 12.1" XGA 40GB None Optional Open; wireless upg Modem YesmM 1.2 256MB 12.1" XGA 40GB None Optional Open; wireless upg Modem YesmM 1.2 256MB 12.1" XGA 40GB None Optional Open; wireless upg Modem YesmM 1.2 256MB 12.1" XGA 40GB None Optional Open; wireless upg Modem YesmM 1.2 256MB 12.1" XGA 40GB None Optional Open; wireless upg Modem YesmM 1.2 256MB 12.1" XGA 40GB None Optional Open; wireless upg Modem YesmM 1.2 256MB 12.1" XGA 40GB None Optional Open; wireless upg Modem YesmM 1.2 256MB 12.1" XGA 40GB None Optional Open; wireless upg Modem YesmM 1.2 256MB 12.1" XGA 40GB None Optional Open; wireless upg Modem YesmM 1.2 256MB 12.1" XGA 40GB None Optional Open; wireless upg Modem YesmM 1.2 256MB 12.1" XGA 40GB None Optional Open; wireless upg Modem YesmM 1.2 256MB 12.1" XGA 40GB None Optional Open; wireless upg Modem YesmM 1.2 256MB 12.1" XGA 40GB None Optional Open; wireless upg Modem YesmM 1.2 256MB 12.1" XGA 40GB None Optional Open; wireless upg Modem YesmM 1.2 256MB 12.1" XGA 40GB None Optional Open; wireless upg Modem YesmM 1.2 256MB 12.1" XGA 40GB None Optional Open; wireless upg Modem YesmM 1.2 256MB 12.1" XGA 40GB None Optional Open; wireless upg Modem YesmM 1.2 256MB 12.1" XGA 40GB None Optional Open; wireless upg Modem YesmM 1.2 256MB 12.1" XGA 40GB None Optional Open; wireless upg Modem YesmM 1.2 256MB 12.1" XGA 40GB None Optional Open; wireless upg Modem YesmM 1.2 256MB 12.1" XGA 40GB None Optional Open; wireless upg Modem YesmM 1.2 256MB 1	s Gigabit 4 XP Pro Ent Feb 2004 s Gigabit 4 XP Pro Ent Feb 2004 s Gigabit 4 XP Pro W Feb 2004 s Gigabit 8 XP Pro W G Feb 2004 s Gigabit 8 XP Pro W Feb 2004
2371-6GU Pentiu 2371-7GU Pentiu 2371-6EU Pentiu 2371-8EU Pentiu 2371-8LU Pentiu	M	s Gigabit 8 XP Pro W Feb 2004 s Gigabit 4 XP Pro W Feb 2004 s Gigabit 8 XP Pro W Feb 2004 s Gigabit 8 XP Pro W G Feb 2004
Positioning	mM 1.2 512MB 12.1" XGA 40GB None Optional 11a/b/g Wi-Fi ³² Modem Yes Ultimate mobility in a versatile ultraportable; one spindle	SOFTWARE ¹⁴
Processor L2 cache Memory	Intel® Pentium® M Processor Ultra Low Voltage 1.0GHz or Low Voltage 1.2GHz with enhanced Intel SpeedStep™ technology¹ and 400MHz system bus 1MB / on die (at processor speed) / ECC 256 or 512MB std / 1.28 to 1.53GB max² / PC2700 333MHz DDR1 / non-parity / CL2.5 / std memory soldered to systemboard / one 200-pin SO-DIMM socket available	Windows XP Professional - Microsoft® Windows® XP Professional ²⁰ ⇒ Disk-to-Disk Recovery
Diskette drive Ultrabay™ Slim Disk	None standard / use optional USB-based diskette drive Supports Ultrabay Slim devices in optional or standard X4 UltraBase Dock 20GB or 40GB8 (4200 rpm), 9.5mm, ATA-100 / 1.8" platter / removable and upgradable / 9.5mm high bay / IBM Active Protection System (shock protection)	(in hidden protected area) Preloaded Access IBM Access Connections
Display Graphics	12.1" (308mm) XGA (1024x768) TFT color / Active Matrix / 150 nits Integrated Intel Extreme™ Graphics 2 / in 855GME GMCH / uses main memory (up to 64MB) / 266MHz	 Adobe Reader IBM Rescue and Recovery™ Norton AntiVirus (OEM edition) PC-Doctor™
Graphics external Keyboard	External monitor support via analog DB-15 connector / up to 1600x1200x16.7M at 85Hz Standard-size ²⁶ keys / 97% size of T Series / 87-key / 18.5mm pitch; 2.5mm stoke / Access IBM button / palm rest / TrackPoint®, "Press-to-Select," Internet Scroll Bar ¹³ / soft dome TrackPoint cap / ships with classic dome and soft rim TrackPoint cap	 ThinkPad Utilities IBM Update Connector^{TM,15} Downloadable IBM Director Agent
ThinkLight® Dimensions³	Illuminates the keyboard to improve visibility in low-light conditions 4-cell without X4 UltraBase: 10.5" x 8.3" x .81-1.06"; 268mm x 211mm x 20.6-26.9mm	Software Delivery AssistantSystem Migration Assistant
Weight ²	8-cell without X4 UltraBase: 10.5" x 9.3" x .81-1.06"; 268mm x 237mm x 20.6-26.9mm 4-cell battery models: 2.7 lb (1.23kg); 8-cell battery models: 3.2 lb (1.44kg); with 8-cell battery and X4 UltraBase with combo: 4.89 lb (2.22kg)	Client Security Software (for security chip) License (CD not included)
Case material Battery - type	Color: black; All: magnesium alloy Li-Ion 4- or 8-cell / intelligent / supports optional Extended Life Battery on base (for two batteries) / supports optional battery in X4 UltraBase Dock (for two batteries)	- Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client
Battery - life ¹⁰	with 4-cell: 3.5 hr; with 8-cell: 7.5 hr; with 8-cell and optional Extended Life Battery: up to 10 hr	Supports IBM ThinkVantage™ technologies
Secure Digital slot PC Card Std slot Ports	Intel 855GME chipset / 82852GME Memory Controller Hub (MCH-M) / 82801DBM ICH4-M I/O Controller Hub (ATA-100 EIDE, PCI bus, Low Pin Count (LPC) interface, USB [Bluetooth]) / Intel 82802AC Firmware Hub / PCI bus 2.2 32-bit, 33MHz (ethernet, Ricoh® R5C511 CardBus controller, Mini PCI) / LPC bus 33MHz (PC87392 Super I/O for infrared [dock-based ports]) Supports optional X4 UltraBase Dock (see right side) One Secure Digital Card slot / supports SD memory cards used in consumer devices One Type I or one Type II / CardBus 32-bit / PCMCIA 2.1 / integrated door Two USB (version 2.0), plus one powered USB port for select IBM options / external DB-15 monitor / infrared (4Mbps) / RJ-11 (modem) / RJ-45 (ethernet) / no serial, parallel, keyboard/mouse ports (use X4) / no IEEE 1394 port	IBM ThinkPad X4 UltraBase™ Dock Provides desktop expansion and cable management for the X40 Easily connects to the bottom of the X40 for traveling Converts the X40 to a two-spindle system by supporting optional Ultrabay Slim accessories in left side – Ultrabay Slim Li-Polymer Battery 3-cell 08K8190 – CD-RW/DVD Combo II Ultrabay
Wireless antenna Mini PCI Wireless upg ³⁶ 11b Wi-Fi ³² IBM 11b/g ³² 11a/b/g Wi-Fi ³² CDC	One Mini PCI type III slot (Communications Bay) / customer upgradeable Some: wireless upgradable with wireless Mini PCI options Some: 11b Wi-Fi³² wireless⁴, Mini PCI, Intel PRO/Wireless 2100 Network Connection 802.11b, Intel 82531 chipset Some: IBM 11b/g Wi-Fi³² wireless⁴, Mini PCI, Atheros™ AR5004G chipset Some: 11a/b/g Wi-Fi³² wireless⁴, Mini PCI, Atheros™ AR5001X+ chipset	Slim Drive 73P3288 - Multi-Burner Plus Ultrabay Slim Drive 73P3342 - Second HDD Adapter for Ultrabay Slim 62P4554 Disks supported: • 40GB HS Hard Disk 08K9816
Modem	One Communications Daughter Card (CDC) socket / customer accessible 56K6 V.90 (V.92-designed ²⁹) modem in CDC / Conexant® chipset	• 60GB HS Hard Disk 73P3357 • 80GB HS Hard Disk 09N4273
	56K ⁶ V.90 (V.92-designed ²⁵) modem in CDC / Conexant [®] chipset Some: Bluetooth wireless technology / in CDC (with modem) Intel PRO/1000 Gigabit Ethernet / on systemboard / Intel 82541Gl chipset (MAC/PHY) / Wake on LAN [®] Soft audio / ICH AC97 controller / DirectSound [®] support / AD1981B AC97 codec /	• 60GB HS Hard Disk • 80GB HS Hard Disk Other features: • Power button (front) • Stereo speakers (1 watt)
Modem Bluetooth™ Ethernet	56K ⁶ V.90 (V.92-designed ²⁹) modem in CDC / Conexant [®] chipset Some: Bluetooth wireless technology / in CDC (with modem) Intel PRO/1000 Gigabit Ethernet / on systemboard / Intel 82541Gl chipset (MAC/PHY) / Wake on LAN [®]	*60GB HS Hard Disk 73P3357 *80GB HS Hard Disk 09N4273 Other features: Power button (front) Stereo speakers (1 watt) Security key lock, security keyhole, and optical security screw Serial and parallel ports PS/2 port for keyboard or mouse Analog DB-15 monitor port
Modem Bluetooth™ Ethernet Audio support Security Security chip	56K ⁶ V.90 (V.92-designed ²⁵) modem in CDC / Conexant [®] chipset Some: Bluetooth wireless technology / in CDC (with modem) Intel PRO/1000 Gigabit Ethernet / on systemboard / Intel 82541Gl chipset (MAC/PHY) / Wake on LAN [®] Soft audio / ICH AC97 controller / DirectSound [®] support / AD1981B AC97 codec / mono speaker / 0.5 watt / volume up, down, mute buttons / internal mic / microphone input jack (3.5 mm; pink) / headphone jack (3.5 mm; green) Power-on password / dual hard disk password / supervisor password / security keyhole IBM Embedded Security Subsystem 2.0 ³³ / hardware key storage / multi-factor	*60GB HS Hard Disk 73P3357 *80GB HS Hard Disk 09N4273 Other features: Power button (front) Stereo speakers (1 watt) Security key lock, security keyhole, and optical security screw Serial and parallel ports PS/2 port for keyboard or mouse Analog DB-15 monitor port Three USB 2.0 ports (via USB hub) Ethernet port (Gigabit Ethernet)
Modem Bluetooth™ Ethernet Audio support Security Security chip Limited warranty¹² 128 MB PC2700 256 MB PC2700 1GB PC2700 1GB PC2700 DE IBM USB PORTAB IBM USB 2.0 Por 60 GB Mini Hard I IBM 11a/b/g Wire IBM 11a/b/g Wire	56K ⁶ V.90 (V.92-designed ²⁹) modem in CDC / Conexant® chipset Some: Bluetooth wireless technology / in CDC (with modem) Intel PRO/1000 Gigabit Ethernet / on systemboard / Intel 82541Gl chipset (MAC/PHY) / Wake on LAN® Soft audio / ICH AC97 controller / DirectSound® support / AD1981B AC97 codec / mono speaker / 0.5 watt / volume up, down, mute buttons / internal mic / microphone input jack (3.5 mm; pink) / headphone jack (3.5 mm; green) Power-on password / dual hard disk password / supervisor password / security keyhole IBM Embedded Security Subsystem 2.0 ³³ / hardware key storage / multi-factor authentication / local file encryption / Atmel® chip / TCG-compliant 3 years/1 yr battery - EasyServ ^{TM,19} onsite pickup and delivery / service upgrades ²² avail DDR-SDRAM CL2.5 SOD 31P9828 DDR-SDRAM CL2.5 SOD 31P9830 DDR-SDRAM CL2.5 SOD 31P9830 DDR-SDRAM CL2.5 SOD 31P9832 DR-SDRAM CL2.5 SOD 31P9834 e Diskette Drive 05K9276 ThinkPad X40 Series Li-lon Battery (8-cell) 91P1119 ThinkPad V40 Series Extended Life Battery 92P1006 ThinkPad V40 Series Extended Life Battery 92P1006 ThinkPad V40 Series Extended Life Battery 92P1006 ThinkPad V40 Series Extended Life Battery 92P1006 ThinkPad V40 Series Extended Life Battery 92P1006 ThinkPad V40 Series Extended Life Battery 92P1006 ThinkPad V40 Series Extended Life Battery 92P1006 ThinkPad V40 Series Extended Life Battery 92P1006 ThinkPad V40 Series Extended Life Battery 92P1006 ThinkPad V40 Series Extended Life Battery 92P1006 ThinkPad V40 Series Extended Life Battery 92P1006 ThinkPad V40 Series Extended Life Battery 92P1006 ThinkPad V40 Series Extended Life Battery 92P1006 Service Pac® 22 yr IOR 9x5 NBD Solve 90	*60GB HS Hard Disk 73P3357 *80GB HS Hard Disk 09N4273 Other features: Power button (front) Stereo speakers (1 watt) Security key lock, security keyhole, and optical security screw Serial and parallel ports PS/2 port for keyboard or mouse Analog DB-15 monitor port Three USB 2.0 ports (via USB hub)

Type-model Proc		dem/Sec Ethernet Battery Avail oth™ chip planar cells Preload date
	um®M 1.0 256MB 12.1" XGA 20GB	
2386-1ZU Pention	um M 1.0 256MB 12.1"XGA 20GB Combo X4 UltraBase	lem Yes Gigabit 4 XP Pro Feb 2004
	umM 1.0 256MB 12.1" XGA 20GB	lem Yes Gigabit 4 XP Pro Feb 2004 lem Yes Gigabit 4 XP Pro Feb 2004
2386-5GU Pention	um M 1.2 256MB 12.1" XGA 40GB	em Yes Gigabit 4 XP Pro Feb 2004
	um M	lem Yes Gigabit 8 XP Pro Feb 2004 lem Yes Gigabit 8 XP Pro Feb 2004
		em Yes Gigabit 8 XP Pro Feb 2004 /Blue Yes Gigabit 8 XP Pro Feb 2004
	· · · · · · · · · · · · · · · · · · ·	ne 2386 has a 1 year limited warranty
Positioning	Ultimate mobility in a versatile ultraportable; one spindle	SOFTWARE ¹⁴
Processor	Intel® Pentium® M Processor Ultra Low Voltage 1.0GHz or Low Voltage 1.2GHz with enhanced Intel SpeedStep™ technology¹ and 400MHz system bus	Windows XP Professional
L2 cache	1MB / on die (at processor speed) / ECC 256 or 512MB std / 1.28 to 1.53GB max ⁷ / PC2700 333MHz DDR1 / non-parity / CL2.5 /	- Microsoft® Windows® XP Professional ²⁰
Memory	std memory soldered to systemboard / one 200-pin SO-DIMM socket available	♦ Disk-to-Disk Recovery
Diskette drive	None standard / use optional USB-based diskette drive	(in hidden protected area)
DVD Combo	Some: DVD-ROM / 24X-8X ⁹ speed / removable from Ultrabay™ Slim in X4 UltraBase Some: DVD-ROM/CD-RW / 24X/24X/24X/8X ²¹ speed / removable from X4 UltraBase	Preloaded • Access IBM
Ultrabay™ Slim Disk	Supports Ultrabay Slim devices in optional or standard X4 UltraBase Dock 20GB or 40GB ⁸ (4200 rpm), 9.5mm, ATA-100 / 1.8" platter / removable and upgradable /	Access Connections Adobe Reader
DISK	9.5mm high bay / IBM Active Protection System (shock protection)	 IBM Rescue and Recovery[™]
Display	12.1" (308mm) XGA (1024x768) TFT color / Active Matrix / 150 nits	Norton AntiVirus (OEM edition) PC-Doctor™
Graphics	Integrated Intel Extreme™ Graphics 2 / in 855GME GMCH / uses main memory (up to 64MB) / 266MHz	IBM Update Connector™.15
Graphics external	External monitor support via analog DB-15 connector / up to 1600x1200x16.7M at 85Hz	InterVideo WinDVD (DVD, combo) RecordNow and DLA (combo)
Keyboard	Standard-size ²⁶ keys / 97% size of T Series / 87-key / 18.5mm pitch; 2.5mm stoke / Access IBM button / palm rest / TrackPoint®, "Press-to-Select," Internet Scroll Bar ¹³ /	Downloadable
-	soft dome TrackPoint cap / ships with classic dome and soft rim TrackPoint cap	IBM Director Agent Software Delivery Assistant
ThinkLight® Dimensions³	Illuminates the keyboard to improve visibility in low-light conditions 4-cell without X4 UltraBase: 10.5" x 8.3" x .81-1.06"; 268mm x 211mm x 20.6-26.9mm	System Migration Assistant Client Security Software (for
Differisions	8-cell without X4 UltraBase: 10.5" x 9.3" x .81-1.06"; 268mm x 237mm x 20.6-26.9mm	security chip)
Weight ²	8-cell with X4 UltraBase and optical: 10.7" x 9.3" x 1.5-2.0"; 272 x 237 x 38.2-50.4mm 4-cell with battery: 2.7 lb (1.23kg); 8-cell with battery: 3.1 lb (1.43kg);	License (CD not included)
	8-cell battery and X4 UltraBase with combo: 4.89 lb (2.2kg)	Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client
Case material Battery - type	Color: black; All: magnesium alloy Li-lon 4- or 8-cell / intelligent / supports optional Extended Life Battery on base (for two	
Battery - life ¹⁰	batteries) / supports optional battery in X4 UltraBase Dock (for two batteries) 4-cell models: 3.5 hr; 6GU with 8-cell: 7.5 hr;	IBM ThinkPad X4 UltraBase™ Dock (standard with 1QU/1ZU/6UU/8WU)
	with 8-cell and optional Extended Life Battery: up to 10 hr	Provides desktop expansion and
Architecture	Intel 855GME chipset / 82852GME Memory Controller Hub (MCH-M) /	cable management for the X40
	82801DBM ICH4-M I/O Controller Hub (ATA-100 EIDE, PCI bus, Low Pin Count (LPC) interface, USB [Bluetooth]) / Intel 82802AC Firmware Hub /	Easily connects to the bottom of the X40 for traveling
	PCI bus 2.2 32-bit, 33MHz (ethernet, Ricoh® R5C511 CardBus controller, Mini PCI) / LPC bus 33MHz (PC87392 Super I/O for infrared [dock-based ports])	Converts the X40 to a two-spindle system by supporting optional
	e Some: X4 UltraBase Dock (see right side)	Ultrabay Slim accessories in left side:
	One Secure Digital Card slot / supports SD memory cards used in consumer devices One Type I or one Type II / CardBus 32-bit / PCMCIA 2.1 / integrated door	– Ultrabay Slim Li-Polymer Battery 3-cell 08K8190
Ports	Two USB (version 2.0), plus one powered USB port for select IBM options /	- CD-RW/DVD Combo II Ultrabay
	external DB-15 monitor / infrared (4Mbps) / RJ-11 (modem) / RJ-45 (ethernet) / no serial, parallel, keyboard/mouse ports (use X4) / no IEEE 1394 port	Slim Drive 73P3288 – ThinkPad Multi-Burner Ultrabay
Wireless antenna	UltraConnect™ antenna built into the display cover for optimal wireless signal reception	Slim Drive 73P3294 - Second HDD Adapter for Ultrabay
Mini PCI Wireless upg ³⁶	One Mini PCI type III slot (Communications Bay) / customer upgradeable Some: wireless upgradable with wireless Mini PCI options	Slim 62P4554
11b Wi-Fi ³²	Some: 11b Wi-Fi ³² wireless ⁴ , Mini PCI, Intel PRO/Wireless 2100 Network Connection 802.11b, Intel 82531 chipset	Disks supported: • 30GB Hard Disk 09N4268
IBM 11b/g ³²	Some: IBM 11b/g Wi-Fi ³² wireless⁴, Mini PCI, Atheros™ AR5004G chipset	40GB HS Hard Disk 08K9816 80GB HS Hard Disk 09N4273
CDC Modem	One Communications Daughter Card (CDC) socket / customer accessible 56K° V.90 (V.92-designed ²⁹) modem in CDC / Conexant® chipset	Other features:
Bluetooth™	Some: Bluetooth wireless technology / in CDC (with modem)	Power button (front)
Ethernet Audio support	Intel PRO/1000 Gigabit Ethernet / on systemboard / Intel 82541Gl chipset (MAC/PHY) Soft audio / ICH AC97 controller / DirectSound® support / AD1981B AC97 codec /	Stereo speakers (1 watt) Security key lock, security
	mono speaker / 0.5 watt / volume up, down, mute buttons / internal mic / microphone input jack (3.5 mm; pink) / headphone jack (3.5 mm; green)	keyhole, and optical security screw • Serial and parallel ports
Security	Power-on password / dual hard disk password / supervisor password / security keyhole	PS/2 port for keyboard or mouse
Security chip	IBM Embedded Security Subsystem 2.0 ³³ / hardware key storage / multi-factor authentication / local file encryption / enhances VPN security ¹⁶ / TCG-compliant	Analog DB-15 monitor port Three USB 2.0 ports (via USB hub)
Limited warranty ¹²	1 year - EasyServ™.19 onsite pickup and delivery / service upgrades ²² available	Ethernet port (Gigabit Ethernet)
	DDR-SDRAM CL2.5 SOD 31P9828 IBM ThinkPad X4 UltraBase Dock 92P3429	Modem port Retractable feet; 1.3 lb; 580g
	DDR-SDRAM CL2.5 SOD 31P9830 40GB Mini Hard Disk 9.5mm (4200 rpm) 09N4283 DDR-SDRAM CL2.5 SOD 31P9832 ThinkPad X40 Series Li-lon Battery (4-cell) 92P1009	
1GB PC2700 DE	DR-SDRAM CL2.5 SOD 31P9834 ThinkPad X40 Series Li-Ion Batterý (8-cell) 92P1005	Asset ID ^{TM,34} (system-specific info in
IBM USB Portab	rtable Multi-Burner Drive 22P9163 ThinkPad Ultraportable 56W AC Adapter ^ 02K6880	
IBM 11a/b/g Wire	eless CardBus Adapter 31P9101 ThinkPad 72W AC/DC Combo Adapter 22P9010 eless Mini PCI Adapter II 73P4301 ServicePac® 22 1yr IOR 9x5 NBD 30L9188	International Warranty Service ¹⁷
	ess 2200BG Mini PCI 73P2801 Other options at ibm.com/pc/us/accessories	support during the warranty ¹²
	I I	

0037A04

IBM M400 Projector

800-IBM-SERV (426-7378)

Type-model Processor GHs Memory Screen GB Optical Wireless Modem 10/100 12-cell Li-lon XP Pro No. Apr. 2388-R1V Celeron 2.0 128MB 15.0" XGA 20GB Combo None Modem 10/100 12-cell Li-lon XP Pro No. Apr. 2388-R1V Celeron 2.0 256MB 14.1" XGA 20GB Combo None Modem 10/100 12-cell Li-lon XP Pro No. Apr. 2388-R1V Celeron 2.0 256MB 14.1" XGA 40GB Combo 11b Wi-Fi Modem 10/100 12-cell Li-lon XP Pro No. Apr. 2388-RV Pentium 4.2 256MB 14.1" XGA 40GB Combo 11b Wi-Fi Modem 10/100 12-cell Li-lon XP Pro No. Apr. 2388-RV Pentium 4.2 256MB 14.1" XGA 40GB Combo 11b Wi-Fi Modem 10/100 12-cell Li-lon XP Pro No. Apr. 2388-RV Pentium 4.2 256MB 15.0" XGA 40GB Combo 11b Wi-Fi Modem 10/100 12-cell Li-lon XP Pro No. Apr. 2388-RV Pentium 4.2 256MB 15.0" XGA 20GB DVD None Modem 10/100 12-cell Li-lon XP Pro No. Apr. 2388-RV Pentium 4.2 256MB 15.0" XGA 20GB DVD None Modem 10/100 12-cell Li-lon XP Pro No. Apr. 2388-RV Pentium 4.2 256MB 15.0" XGA 20GB DVD None Modem 10/100 12-cell Li-lon XP Pro No. Apr. 2388-RV Pentium 4.2 256MB 15.0" XGA 40GB Combo 11b Wi-Fi Modem 10/100 12-cell Li-lon XP Pro No. Apr. 2388-RV Pentium 4.2 256MB 15.0" XGA 40GB Combo None Modem 10/100 12-cell Li-lon XP Pro No. Apr. 2388-RV Pentium 4.2 256MB 15.0" XGA 40GB Combo None Modem 10/100 12-cell Li-lon XP Pro No. Apr. 2388-RV Pentium 4.2 256MB 15.0" XGA 40GB Combo None Modem 10/100 12-cell Li-lon XP Pro No. Apr. 2388-RV Pentium 4.2 256MB 15.0" XGA 40GB Combo None Modem 10/100 12-cell Li-lon XP Pro No. Apr. 2388-RV Pentium 4.2 256MB 15.0" XGA 40GB Combo None Modem 10/100 12-cell Li-lon XP Pro No. Apr. 2388-RV Penti							
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Intel® Celeron 2.06Hz³ with 400MHz frontside bus or Intel Pentium 4 at 2.4, 2.8 or 3.06Hz³ with 400MHz frontside bus or Celeron: 128KB; Pentium 4: 512KB; All: on die (at processor speed) / ECC							
L2 cache Intel Pentium 4 at 2.4, 2.8 or 3.0fHz5" with 400MHz frontside bus Celeron: 128KB; Pentium 4: 512KB; Alf. on die (at processor speed) / ECC Memory 128 or 256MB std / 1GB max" / PC2100 266MHz DDR1 / non-parity / CL2.5 / two 200-pin SO-DIMM sockets / std memory in one socket / one socket available One some: DVD-ROM / 24X-80's geed / fixed, not removable / 12.7mm high Some: DVD-ROM / 24X-80's geed / fixed, not removable / 12.7mm high Some: DVD-ROM / 24X-80's geed / fixed, not removable / 12.7mm high Access IBM Some: DVD-ROM/CO-RW / 24X/10X/24X/83'* speed / fixed, not removable / 12.7mm high Access IBM Some: DVD-ROM/CO-RW / 24X/10X/24X/83'* speed / fixed, not removable / 12.7mm high Access IBM Access IBM Some: 15.0" (381.0mm) XGA (1024x768) TFT color / Active Matrix / 150 nits Some: 15.0" (381.0mm) XGA (1024x768) TFT color / Active Matrix / 150 nits Adobe Reader IBM Rapid Restore™ PC IBM							
Some: 14.1" (358.1mm) XGA (1024x768) TFT color / Active Matrix / 150 nits Some: 15.0" (381.0mm) XGA (1024x768) TFT color / Active Matrix / 150 nits Some: 15.0" (381.0mm) XGA (1024x768) TFT color / Active Matrix / 150 nits Some: 15.0" (381.0mm) XGA (1024x768) TFT color / Active Matrix / 150 nits Some: 15.0" (381.0mm) XGA (1024x768) TFT color / Active Matrix / 150 nits All: One latch to unlatch and open with one hand Integrated Intel Extreme™ Graphics / Direct AGP / in 852GM GMCH / uses main memory (8 to 32MB with 128MB memory; 8 to 64MB with 256MB+) / 133MHz / DMVT Graphics external monitor support via analog DB-15 connector / up to 1600x1200 at 85Hz / DDC2B ThinkPad EasyPivot base allows smooth positioning for a comfortable viewing angle TrackPoint* pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass / Soft dome TrackPoint cap / ships with classic dome and soft rim TrackPoint cap No touch pad (UltraNav¹™ multi-pointing system) / no ThinkLight¹™ with optical drive and battery: 7.94 to 8.89 lb (3.6 to 4.0kg) Color: Black; All: Acrylonitrile-Butadiene-Styrene/Polycarbonate (ABS/PC) plastic Lithium Ion 6 or 12-cell / intelligent / removable Battery - life¹ Sound (LPC) interface, USB, Firmware Hub) / PCI bus 2.2 32-bit, 33MHz (The Acard Sound or nouse) / no serial or infrared or IEEE 1394 or video out Wireless antenna Mini PCI None Some: 11b Wi-Fi²² Wireless models; UltraConnect¹™ Antenna built into the display cover One Mini PCI type III slot (Communications Bay) / not customer upgradable Some: 11b Wi-Fi²² wireless*, Mini PCI, Intersil® Prism 2.5 chipset CDC One Communications Daughter Card (CDC) socket (used by modem) / not accessible ServicePac 2 yr IOR 9x5 NBD ServicePac 2 yr IOR 9x5 NBD ServicePac 2 yr IOR 9x5 NBD ServicePac 2 yr IOR 9x5 NBD ServicePac 2 yr IOR 9x5 NBD ServicePac 2 yr IOR 9x5 NBD ServicePac 2 yr IOR 9x5 NBD ServicePac 2 yr IOR 9x5 NBD ServicePac 2 yr IOR 9x5 NBD ServicePac 2 yr IOR 9x5 NBD ServicePac 2 yr IOR 9x5 NBD ServicePac 2 yr IOR 9x5 NBD ServicePac 2 yr IOR 9x5							
External monitor support via analog DB-15 connector / up to 1600x1200 at 85Hz / DDC2B EasyPivot ThinkPad EasyPivot base allows smooth positioning for a comfortable viewing angle Reyboard ComfortSlant TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass/soft dome TrackPoint pad with built-in incline provides maximum typing comfort TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass/soft dome TrackPoint cap / ships with classic dome and soft rim TrackPoint cap No touch pad (UltraNav™ multi-pointing system) / no ThinkLight™ Weight² Case material Battery - type Battery - life¹⁰ Architecture Intel 852GM chipset / 82852GM Graphics Memory Controller Hub (ATA-100 EIDE, PCI bus, ethernet MAC, Low Pin Count (LPC) interface, USB, Firmware Hub) / PCI bus 2.3 2b-bit, 38MHz (Tl® PCI 1410A CardBus controller, Mini PCI) LPC bus 33MHz (PC87393F Super I/O for diskette, parallel, PS/2) One Type I, one Type II, or one Type III / CardBus 32-bit / PCMCIA 2.1 / integrated door Four USB (Version 2.0) / parallel / external monitor (DB-15) / RJ-11 (modem) / RJ-45 (ethernet) / PS/2 (for keyboard or mouse) / no serial or infrared or IEEE 1394 or video out Some: Empty / not customer upgradable One One Mini PCI type III slot (Communications Bay) / not customer upgradable Some: Empty / not customer upgradable Some: Empty / not customer upgradable Some: Empty / not customer upgradable Some: Empty / not customer upgradable Some: Empty / not customer upgradable Some: Empty / not customer upgradable Some: Empty / not customer upgradable Some: Empty / not customer upgradable Some: Empty / not customer upgradable Some: ThinkPad ComfortsInt heyboard with built-in incline provides maximum typing comfort TrackPoints maximum typing comfort							
ThinkPad ComfortSlant Keyboard with built-in incline provides maximum typing comfort TrackPoint* TrackPoint* pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass / soft dome TrackPoint* pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass / soft dome TrackPoint* pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass / soft dome TrackPoint* pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass / soft dome TrackPoint* pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass / soft dome TrackPoint* pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass / soft dome TrackPoint* pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass / soft dome TrackPoint* pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass / soft dome TrackPoint* pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass / soft dome TrackPoint* pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass / soft dome TrackPoint* pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass / soft dome TrackPoint* pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass / soft dome TrackPoint* pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass / soft dome TrackPoint ap / ships with classic dome and soft rim TrackPoint* paginate. Software Delivery Assistant - System Migration Assistant - System Migration Assistant - System Migration Assistant - Support says and soft rim TrackPoint ap / software Delivery Assistant - Support Migration Assistant - Support Delivery Assistant - Support Delivery Assistant - Support Delivery Assistant - Support Delivery Assistant - Support Delivery Assistant - Support Delivery Assistant - Support Delivery Assistant - Support Delivery Assistant - Support Delivery Assistant - Support Delivery Assistant - Support Delivery Assistant - Support Delivery Assistant - Suppor							
Dimensions³ Weight² Case material Battery - type Battery - life¹⁰ Architecture Intel 852GM chipset / 82852GM Graphics Memory Controller Hub (GMCH) / 82801DBM ICH4-M I/O Controller Hub (ATA-100 EIDE, PCI bus, ethernet MAC, Low Pin Count (LPC) interface, USB, Firmware Hub) / PCI bus 2.2 32-bit, 33MHz (Tl® PCI1410A CardBus 32-bit / PCMCIA 2.1 / integrated door Four USB (Version 2.0) / parallel / external monitor (DB-15) / RJ-11 (modem) / RJ-45 (ethernet) / PS/2 (for keyboard or mouse) / no serial or infrared or IEEE 1394 or video out 1b Wi-Fi³² CDC Modem 12.9" x 11.1" x 1.5-2.0"; 329mm x 282.5mm x 37.1-50.9mm; Volume: 4 liters with optical drive and battery: 7.94 to 8.89 lb (3.6 to 4.0kg) Lotus ® SmartSuite® Millennium. Lotus Notes® Stand-alone Clien Universal 120 watt AC adapter Asset ID™.³⁴ (system-specific info chip accessed over network) PC 2001 and PXE 2.0-compliant Clim and DMI 2.0-compliant Clim and DMI 2.0-compliant IBM ImageUltra™ Services availated by PC 2001 and PXE 2.0-compliant Clim and DMI 2.0-compliant IBM ImageUltra™ Services availated by PC 2001 and PXE 2.0-compliant Clim and DMI 2.0-compliant IBM ImageUltra™ Services availated by PC 2001 and PXE 2.0-compliant Clim and DMI 2.0-compliant IBM ImageUltra™ Services availated by PC 2001 and PXE 2.0-compliant Clim and DMI 2.0-compliant IBM ImageUltra™ Services availated by PC 2001 and PXE 2.0-compliant Clim and DMI 2.0-compliant IBM ImageUltra™ Services availated by PC 2001 and PXE 2.0-compliant Clim and DMI 2.0-compliant IBM ImageUltra™ Services availated by PC 2001 and PXE 2.0-compliant Clim and DMI 2.0-compliant IBM ImageUltra™ Services available protect software image and data IBM Rapid Restore PC available protect software image and data International Warranty Services available protect software image and data International Warranty Services available protect software image and data IBM Rapid Restore PC available protect software image and data IBM Rapid Restore PC available protect software image and data IBM Rapid Restore PC available protec							
Battery - type Battery - life¹0 Architecture Intel 852GM chipset / 82852GM Graphics Memory Controller Hub (GMCH) / 82801DBM ICH4-M I/O Controller Hub (ATA-100 EIDE, PCI bus, ethernet MAC, Low Pin Count (LPC) interface, USB, Firmware Hub) / PCI bus 2.2 32-bit, 33MHz (PC87393F Super I/O for diskette, parallel, PS/2) One Type I, one Type II, or one Type III / CardBus 32-bit / PCMCIA 2.1 / integrated door Four USB (Version 2.0) / parallel / external monitor (DB-15) / RJ-11 (modem) / RJ-45 (ethernet) / PS/2 (for keyboard or mouse) / no serial or infrared or IEEE 1394 or video out Wireless antenna Mini PCI None Some: Empty / not customer upgradable Some: 11b Wi-Fi³² Some: 11b Wi-Fi³² Some: 11b Wi-Fi³² Some: 11b Wi-Fi³² CDC One Communications Daughter Card (CDC) socket (used by modem) / not accessible Modem M							
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Modem 56K ⁶ V.90 (V.92-designed ²⁹) modem in CDC / Agere® chipset							
Bluetooth None ServicePac 3 yr IOR 9x5 NBD							
Ethernet 10/100 ethernet on planar / Broadcom® BCM5901 (PHY/MAC) / PXE / Wake on LAN® 30L9 Audio support Soft audio / ICH AC97 controller / DirectSound® support / AD1981B AC97 codec / mono speaker / 2 watt / volume up, down, mute buttons / no internal mic / 30L9							
microphone input jack (3.5 mm) / headphone jack (3.5 mm) / no line in jack Security Security chip Se							
Limited warranty ¹² 1 year - EasyServ ^{TM,19} onsite pickup and delivery 128 MB PC2700 DDR-SDRAM CL2.5 SOD 31P9828 ThinkPad G40 Li-Ion Battery 12-cell 08K8178							
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IBM 4GB Microdrive [™] with PC Card							

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Positioning Processor L2 cache Memory	Powerful desktop replacement; ti Intel® Celeron 2.2GHz³7 with 40 Intel Pentium 4 at 2.6 or 3.0GHz Celeron: 128KB; Pentium 4: 512 256 or 512MB std / 1GB max² / 1 two 200-pin SO-DIMM sockets /	0MHz ['] system ['] bu z ³⁷ with 400MHz KB ; <i>All:</i> on die (a PC2100 266MHz	s or system bus at processor sp z DDR1 / non-	paritý / CL:	2.5 /	- Microse Profess	s XP Profe oft® Window sional ²⁰ -Disk Reco	ws® XP	l	
Diskette drive CD DVD Combo Disk Display	3.5" 1.44MB / fixed, not removal Some: CD-ROM / 24X-10X ⁹ spe Some: DVD-ROM / 24X-8X ⁹ spo Some: DVD-ROM/CD-RW / 24X-20GB ⁸ , 40GB, or 60GB / 4200 rp Some: 14.1" (358.1mm) XGA (150me: 15.0" (381.0mm) XGA (150me: 150me: eed / fixed, not re eed / fixed, not re (/10X/24X/8X ²¹ s m / 9.5mm high / 024x768) TFT c 024x768) TFT c	emovable / 12. emovable / 12. speed / fixed, r removable / S olor / Active M olor / Active M	7mm high not remova 9.5mm high latrix / 150 latrix / 150	nits nits	m Preloade • Access • Adobe • IBM Ra • IBM Ra	IBM ss Connect Reader pid Restor ecordNOW	ions e™ PC ′ and DL			
Some: 15.0" (381.0mm) SXGA+ (1400x1050) TFT color / Active Matrix / 150 nits Graphics Integrated Intel Extreme™ Graphics / Direct AGP / in 852GM GMCH / uses main memory (8 to 32MB with 128MB memory; 8 to 64MB with 256MB+) / 133MHz / DMVT Graphics external External monitor support via analog DB-15 connector / up to 1600x1200 at 85Hz / DDC2B ThinkPad EasyPivot base allows smooth positioning for a comfortable viewing angle Veritas (combo mo InterVideo WinDVE • Norton AntiVirus (C • PC-Doctor™ ThinkPad Utilities • IBM Update Conne									dition)	
Keyboard ComfortSlant TrackPoint®	87-key / Access IBM button / pa ThinkPad ComfortSlant keyboat TrackPoint® pointing device, "Pr soft dome TrackPoint cap / ship No touch pad (UltraNav™ multi-	d with built-in inc ess-to-Select," In s with classic do	cline provides in internet Scroll I me and soft rin	maximum t Bar¹³, mag m TrackPo	yping comi nifying glas	• IBM Dir • Softwa • System	rector Ager re Delivery n Migration	Assista Assista		
Dimensions ³ Weight ² Case material Battery - type	12.9" x 11.1" x 1.5-2.0"; 329mm x with optical drive and battery: 7.6 Color: Black; All: Acrylonitrile-Builthium Ion 6 or 12-cell / intellige	64 to 8.89 lb (3.5 utadiene-Styrend nt/removable	to 4.0kg) e/Polycarbona	ite (ABS/P	C) plastic	- Lotus® Lotus N	License (CD not included) - Lotus® SmartSuite® Millenni Lotus Notes® Stand-alone C			
Architecture PC Card Std slots Ports Wireless antenna	Battery - life 10 Architecture Intel 852GM chipset / 82852GM Graphics Memory Controller Hub (GMCH) / 82801DBM ICH4-M I/O Controller Hub (ATA-100 EIDE, PCI bus, ethernet MAC, Low Pin Count (LPC) interface, USB, Firmware Hub) / PCI bus 2.2 32-bit, 33MHz (TI® PCI1410A CardBus controller, Mini PCI) / LPC bus 33MHz (PC87393F Super I/O for diskette, parallel, PS/2) PC Card Std slots Ports PC Card Std slots Ports One Type II, or one Type III / CardBus 32-bit / PCMCIA 2.1 / integrated doo Four USB (Version 2.0) / parallel / external monitor (DB-15) / RJ-11 (modem) / RJ-45 (ethernet) / PS/2 (for keyboard or mouse) / no serial or infrared or IEEE 1394 or video out							Universal 120 watt AC adapter Asset ID™.34 (system-specific inf chip accessed over network) PC 2001 and PXE 2.0-compliant ACPI 1.0b and 2.0-compliant CIM and DMI 2.0-compliant IBM ImageUltra™ Services available BM Rapid Restore PC available protect software image and da International Warranty Service¹7		
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	Speed		Disk		Mini PCI Comm Bay	CDC	Ethernet on				Workhor or Globa		Avail
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2388-7RU Celero 2388-2BU Pentiu			20GB 20GB		None	Modem Modem	10/100 10/100			XP Home	Entry		
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2388-2TU Pentiu			40GB		None	Modem	10/100			XP Home	No		2003
2388-3AU Pentiu			20GB		None	Modem	10/100			XP Home	No		2003
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L2 cache		3; Pentium 4: 512								osoft® Wind	ows® XP		
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DVD	Some: DVD-R	OM / 24X-8X ⁹ spe	eed / fixe	d, not rer	novable / 12	2.7mm high	า			ess IBM			
Combo		OM/CD-RW / 24>						mm		ess Conne	ctions		
Disk		or 40GB / 4200 rp								oe Reader	roTM PC		
Display		358.1mm) XGA (1								Rapid Resto RecordNO\		l A by	
		81.0mm) XGA (1 h to unlatch and c				Matrix/15	O TIILS			as (combo			
Graphics		l Extreme™ Gra	•			M GMCH	/ uses mai	n		Video WinD			
	memory (8 to 3	2MB with 128MB	memory	r; 8 to 64I	MB with 256	MB+) / 13	3MHz/DN	/IVT		on AntiVirus Doctor™	(OEIVI e	allion	1)
Graphics external	External monito	r support via ana	log DB-1	5 connec	tor/up to 16	600x1200 a	at 85Hz / D[DC2B		kPad Utilitie	s		
EasyPivot		Pivot base allows		•				_	• IBM	Update Con	nector™	,15	
Keyboard ComfortSlant	87-key / Access	s IBM button / pa fortSlant keyboar	Im rest /	pitch: 19i	mm; stroke:	2./mm (s	td-size ke)	/S) mfort		oadable			
TrackPoint®	TrackPoint® poi	nting device, "Pr	ess-to-S	elect," Int	ernet Scrol	l Bar ¹³ , ma	gnifying gl	ass/	• IBM	Director Age ware Delive	ent v Acciet	nnt	
	soft dome Trac	kPoint cap / ships	s with cla	assic don	ne and soft i	im TrackP				em Migratio			
Touch pad	· `	JltraNav™ multi-p		<u> </u>					,	se (CD not in			
Dimensions ³		1.5-2.0"; 329mm >					ers			s® SmartSui		nnium	and
Weight ²		e and battery: <i>So</i> n <i>4 at 3.0GHz mo</i>							Lotus	s Notes® Sta	and-alon	e Clie	nt
Case material	Color: black; A	All: Acrylonitrile-B	utadiene	e-Styrene			/PC) plasti	С		Pad noteboo			
Battery - type		12-cell / intellige			ar modolo:	n to 2 0 hr				/antage™te ı; visit ibm.c			
Battery - life ¹⁰		nodels: 1.3 to 1.45			-	•				sal 120 wat			ugo
Architecture		ipset / 82852GM I4-M I/O Controlle								IDTM,34 (syste			fo in
	Low Pin Count	(LPC) interface, L	JSB, Firn	nware Hu	b) /	-				accessed o			
		bit, 33MHz (TI® P					/			01 and PXE □.0b and 2.0			t
PC Card Std slots		z (PC87393F Sup e Type II, or one 1					/ integrated	d door		nd DMI 2.0-0			
Ports		sion 2.0) / paralle							IBM Im	nageUltra™	Services	avail	
	RJ-45 (etherne	t) / PS/2 (for keyb	oard or	mouse) /	no serial or	infrared p	ort			apid Restor ect software			
Video out	No video out po	rt								ational Warr			
IEEE 1394 Wireless antenna	None None								24 hou	ır x 7 day ¹⁸ t	oll-free v	varrar	nty
Mini PCI		pe III slot (Comn	nunicatio	ns Bay) /	not custom	er upgrad	able			oort during t IBM-SERV			via
None		tomer upgradable		20)	. /			.			`		
CDC Modem	56K6 V 90 (V 92	ations Daughter (2-designed ²⁹) mod	Card (CL dem in Cl	DC / Age	et (usea by r re® chinset	noaem)/n	ot accessii	oie	Servic	ePac ^{®, 22} 1y	r IOR 9x		บ .9188
Bluetooth	None	acoignoa / moc	20111 111 01	DO / Algoi	C Ompoct				Servic	ePac 2 yr IC	OR 9x5 N		.5 100
Ethernet		t on planar / Broa											.9189
Audio support		l AC97 controller 2 watt / volume							Servic	ePac 3 yr IC)R 9x5 N		9195
		out jack (3.5 mm)							Servic	ePac 4 yr IC)R 9x5 N		.9195
Security	Power-on pass	word / hard disk į						e		•		30L	9194
Security chip	None								Servic	ePac 5 yr IC)H 9x5 N		9196
Limited warranty ¹² Service options	1 year - EasyS	erv™,19 onsite pic es²² provide up to	kup and	delivery	a or denot r	anair cond	ce covere	_	Servic	ePac 2 yr P	&L P/U I		
oeivice options	from date of Thi	nkPad purchase	(including	g warrant	y period)	opali selvi	os covera(y ⊂		,		30L	.9191
128MB PC2700 E					0 Li-Ion Bat	tery 19-00	II USK	8178	Servic	ePac 3 yr P	&L P/U I		t .9192
256 MB PC2700 E					OW AC Ada			9150	Servic	ePac 4 yr P	&L P/U I		
512MB PC2700 E	DDR-SDRAM CL	2.5 SOD 31P98	32 IBM	11a/b/g	Wireless Ca	irdBus Ada	apter 31P	9101		,		69P	9195
IBM USB Portable		05K92 r Drive 22P91	76 Gen	nPC400	Smart Card ap Collectio	Header/W		8901 2698	Servic	ePac 5 yr P	&L P/U [9197
IBM USB 2.0 Port					nitor Stand			5265	Other	ServicePac	ontions a		9197
IBM 4GB Microdr	ive™ with PC Ca	rd 09N42	80 Thin	kPad Nyl	on Carrying	Case	10K	0207	ibm	n.com/servi	ces/its/u		rce/
IBM USB 2.0 Mer					miere Leath					nomxeu.pdf		tono:	200
IBM USB 2.0 Mer IBM Optical 3-But					ouse Conne board with			33793 8950		varranty anr ments at	ıuaımalr	nenar	ice
IBM USB Serial P	arallel Adapter	22P529	98 IBM	M400 Pr	ojector		003	7A04	ĭbm	n.com/servi	ces/its/u	s/soui	rce/
IBM USB Numerio	c Keypad	33L322	25 Oth	er options	at ibm.co r	n /pc/us/ac	cessories		mas	spspleu.pdf			
See footnotes for im		f t!							(0.	I∩H) ⊚ IBM (

Town model Brees	Speed	C	Disk	0.00.01	Mini PCI Comm Bay	CDC	Ethernet	D.W.	Workhorse (W) or Global (G) Avail
Type-model Proce 2388-HBU Celero		Screen 14.1" XGA	GB ⁸ 30GB	Optical CD	Wireless None	Modem Modem	10/100	Battery 6-cell Li-lon	Preload or Entry (E) date XP Home Entry Apr 2004
2388-JBU Celero 2388-KBU Pentiu	n 2.6 128MB	14.1" XGA	30GB 30GB	DVD Combo	None None	Modem Modem	10/100	6-cell Li-lon 12-cell Li-lor	XP Home Entry Apr 2004
2388-KNU Pentiu			40GB	Combo	None	Modem		12-cell Li-lor	
Positioning Processor	Powerful desktop r Intel® Celeron 2.5							Windo	SOFTWARE ¹⁴
L2 cache	Intel Pentium 4 at Celeron: 128KB; F					need) / FC0	2		vs XP Home models soft® Windows® XP
Memory	128 or 256MB std (memory controlle two 200-pin SO-D	/ 1GB max ⁷ / P r limits speed t	C2100 o 266M	266MHz (Hz) / non-	or PC2700 3 parity / CL2	33MHz DD .5 /	R1		Edition ²⁰ o-Disk Recovery Iden protected area)
Diskette drive	3.5" 1.44MB / fixe				acuabla / 10	Zmm biab			vs XP Pro models
CD DVD	Some: CD-ROM / Some: DVD-ROM	1 / 24X-8X ⁹ spe	ed / fixe	ed, not ren	novable / 12.	.7mm high		Profes	soft® Windows® XP ssional ²⁰
Combo Disk	Some: DVD-ROM 30GB ⁸ or 40GB , 42						ble / 12.7mr	, 2.0	o-Disk Recovery den protected area)
Display	14.1" (358.1mm)) one latch to unlatch				ive Matrix / 1	50 nits /		Preload • Acces	led (all)
Graphics	Integrated Intel E memory (8 to 32M								ss Connections e Reader
Graphics external EasyPivot	External monitor so ThinkPad EasyPiv	upport via anal	og DB-1	5 connect	tor/up to 160	00x1200 at 8	B5Hz/DDC	2B • IBM F • IBM F	apid Restore™ PC RecordNOW and IBM Drive
Keyboard ComfortSlant	87-key / Access IE ThinkPad Comfort							ort produ	Access powered by Sonic cts (combo models)
TrackPoint®	TrackPoint®pointing	ng devicé, "Pre	ss-to-S	elect," Int	ernet Scroll	Bar ¹³ , magr	nifying glass	:/ • Interv	ideo WinDVD (combo, DVD) n AntiVirus (OEM edition)
Touch pad	No touch pad (Ultr	aNav™ multi-p	ointing	system)/ı	no ThinkLigh	nt™		PC-De Think	octor™ Pad Utilities
Dimensions ³ Weight ²	12.9" x 11.1" x 1.5- with optical drive a	and battery: HE	3U: 7.63	lb (3.47kg		0 lb (3.50kg);	Downlo	
Case material Battery - type	Color: black; All:	Acrylonitrile-Bu	utadien	e-Styrene	/Polycarbon				irector Agent are Delivery Assistant
Battery - life ¹⁰	HBU/JBU: up to 1.	.30 hr; <i>KNU:</i> u	p to 2.0	hr; KBU:	up to 2.48 h			1	m Migration Assistant
Architecture	Intel 852GM chips 82801DBM ICH4-N							- Lotus	(CD not included) SmartSuite® Millennium and
	Low Pin Count (LP PCI bus 2.2 32-bit,	C) interface, U	SB, Firr	nware Hul	b) /		,		Notes® Stand-alone Client
PC Card Std slots	LPC bus 33MHz (F One Type I, one Ty	PC87393F Sup	er I/O fo	r diskette,	parallel, PS	/2)	atograted d	A + 1F	al 120 watt AC adapter OTM,34 (system-specific info in
Ports	Four USB (Version (ethernet) / PS/2 (for	n 2.0) / parallel	/ exterr	nal monito	r (DB-15) / F	RJ-11 (mod	em) / RJ-45	PC 200	accessed over network) 1 and PXE 2.0-compliant 0b and 2.0-compliant
Video out IEEE 1394	No video out port None							CIM and	d DMI 2.0-compliant
Wireless antenna	None			D \ \ \ \				IBM Ra	ageUltra™ Services available pid Restore PC available to
Mini PCI None	One Mini PCI type Empty / not custon	ner upgradable)	,		. 0			ct software image and data ional Warranty Service ¹⁷
CDC Modem	One Communication 56K ⁶ V.90 (V.92-de					odem) / not	accessible	24 hour	x 7 day ¹⁸ toll-free warranty ort during the warranty ¹²
Bluetooth Ethernet	None 10/100 ethernet or	,		•	•	/ PXF / Wak	re on LAN®	- ''	Pac®, 22 1yr IOR 9x5 NBD
Audio support	Soft audio / ICH A	C97 controller.	/ Direct:	Sound® รเ	upport / AD1	981B AC97	⁷ codec /		30L9188 Pac 2 yr IOR 9x5 NBD
One and the	microphone input	jack (3.5 mm) /	headpl	hone jack	(3.5 mm) / n	o line in jac	k		30L9189
Security Security chip	Power-on passwo None	ra / nara aisk p	asswor	a/superv	isor passwo	ora / securit	y keynole		Pac 3 yr IOR 9x5 NBD 30L9195
Limited warranty ¹² Service options	1 year - EasyServ Service upgrades ²				a or denot re	nair sarvice	COVERAGE	Service	Pac 4 yr IOR 9x5 NBD 30L9194
Oct vice options	from date of Think					pan service	Coverage	Service	Pac 5 yr IOR 9x5 NBD 30L9196
	DDR-SDRAM CL2.5 DDR-SDRAM CL2.5				0 Li-Ion Batt		08K817 22P91		Pac 2 yr P&L P/U Depot 30L9191
512MB PC2700 E	DDR-SDRAM CL2.5	SOD 31P983	32 IBN	1 H Rate V	Vireless LAİ	NPC Card	128 09N99	04 Service	Pac 3 yr P&L P/U Depot
IBM USB 2.0 Com	able Multi-Burner	73P451 22P916	3 Thi	nkPad Mo	Wireless Ca Initor Stand 2	2001 .	22P52	S5 Service	30L9192 Pac 4 yr P&L P/U Depot
	able 40GB Hard Dri [,] ive™ with PC Card	ve 22P719 09N428			lon Carrying rrying Case		10K02 73P35	97 Service	69P9195 Pac 5 yr P&L P/U Depot
IBM USB 2.0 Mer IBM USB 2.0 Mer	mory Key 256MB	22P922 22P923	8 Thi	nkPad Lea	ather Carryir ouse Connec	ng Case	10K020 07G37	09	69P9197 ervicePac options at
IBM Optical 3-But	tton Travel Wheel M tton ScrollPoint Pro	louse 31P741	0 IBN	USB Key	yboard with d Performan	UltraNav	31P89	50 ibm.	com/services/its/us/source/ omxeu.pdf
IBM USB Serial P	arallel Adapter	22P529	8 IBN	1 M400 Pr	ojector	ce usb ke)	0037A	04 ∣ Post-wa	arranty annual maintenance
TrackPoint Cap C Kensington® Micro	oSaver® Security Ca	73P269 able 73P258	2 IBN	1 E400 Pro 1 C400 Pro	ojector		0038A 0039A	04 ibm.	com/services/its/us/source/
	rt Card Reader/Write		01 Oth	er options	at ibm.com	n/pc/us/acc	essories		ospleu.pdf
See footnotes for im	portant warranty info	rmation						(G40	OA) © IBM Corp. December 2004

	Smand	D':1	Mini PCI		Ethernet			orse (W)	A ! .
Type-model Proces	•	Disk GB ⁸ Optical		CDC modem	on planar	Battery	Preload or Edu	ication software c	Avail date
These school This m	m® 4 2.4 256MB 14.1" XGA m4 2.4 256MB 15.0" XGA n 2.2 128MB 14.1" XGA m4 2.6 256MB 15.0" XGA n 2.4 256MB 14.1" XGA n 2.5 256MB 14.1" XGA n 2.5 256MB 14.1" XGA	20GB CD 30GB CD 40GB Combo 30GB CD 30GB CD 40GB Combo ite pickup and kPad notebook sively for educa ect from IBM or	11a/b Wi-Fi 11a/b Wi-Fi 11a/b Wi-Fi delivery 3 yea are available o ational purpose through an Au	Modem Modem Modem Modem Modem Modem Modem Modem r limited only to pues for use athorized	10/100 10/100 10/100 10/100 10/100 10/100 10/100 10/100 warrand blic or pice by qual Educati	12-cell 12-cell 12-cell 12-cell 12-cell ty ivate K- ified stuc- on Rese	XP Pro Educ XP or higher) ac ents and teach ler.	Apr 20 Apr 20 Apr 20 Co Oct 20 Co Oc	003 003 003 003 003 004 004
Positioning	Powerful desktop replacement	three-spindle s	ystem		3			SOFTWARE ¹⁴	
Processor L2 cache Memory	Intel® Celeron 2.0, 2.2, 2.4 or Intel Pentium 4 at 2.4, 2.6 or 2 Celeron: 128KB; Pentium 4:5 128 or 256MB std / 1GB max ⁷ (memory controller limits spee two 200-pin SO-DIMM socket	P.8GHz ³⁷ with 40 12KB ; <i>All:</i> on di / PC2100 266N d to 266MHz) /	00MHz sýstem e (at processoi 1Hz or PC2700 non-parity / CL	bus speed) / 333MH: 2.5 /	z DDR1	able	- Microsoft [®] Profession	P Professional Windows® XP	
Diskette drive CD Combo Disk	3.5" 1.44MB / fixed, not remove Some: CD-ROM / 24X-10X° s Some: DVD-ROM/CD-RW / 20GB ⁸ , 30GB, or 40GB, 4200 t	peed / fixed, no 4X/10X/24X/8X	t removable / 1 ²¹ speed / fixed	l, not ren	novable /	12.7mm	Vital Sour	J: Education software fr ce Technologies®: e KEY™ and	rom
Display	Some: 14.1" (358.1mm) XGA Some: 15.0" (381.0mm) XGA							Portable library™	
Graphics Graphics external EasyPivot	Integrated Intel Extreme™ G memory (8 to 32MB with 128M External monitor support via ar ThinkPad EasyPivot base allo	raphics / DirectilB memory; 8 to nalog DB-15 cor	t AGP / in 8520 64MB with 25 nector / up to 1	GM GMC 6MB+)/ 600x120	H / uses 133MHz 0 at 85H	:/DMVT z/DDC2	□ IBM Reco		
Keyboard ComfortSlant TrackPoint® Touch pad	87-key / Access IBM button / p ThinkPad ComfortSlant keybo TrackPoint® pointing device, "l soft dome TrackPoint cap / sh No touch pad (UltraNav™ mult	ard with built-in Press-to-Select ips with classic	incline provide "Internet Scro dome and soft	es maxim II Bar ¹³ , i rim Trac	um typin nagnifyii	g comfo ng glass	(combo m InterVided Norton Ar PC-Docto ThinkPad	odels) DWinDVD (combo mod htiVirus (OEM edition) r [™] Utilities	dels)
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	12.9" x 11.1" x 1.5-2.0"; 329mr with optical drive and battery: 1-Color: black; All: Acrylonitrile Lithium Ion 12-cell / intelligent KHU with Pentium 4 at 2.8GH	4.1" models: 8.2 -Butadiene-Styl / removable	4 lb (3.74kg);1 rene/Polycarbo	5.0" mod onate (Al	<i>lels:</i> 8.54		Downloada IBM Direct Software		
Architecture PC Card Std slots	Intel 852GM chipset / 82852G 82801DBM ICH4-M I/O Contro Low Pin Count (LPC) interface PCI bus 2.2 32-bit, 33MHz (TI [®] LPC bus 33MHz (PC8739S S One Type I, one Type II, or on	M Graphics Mer Iller Hub (ATA-1 , USB, Firmware PCI1410A Car uper I/O for disk e Type III / Card	nory Controller 00 EIDE, PCI b Hub) / dBus controller ette, parallel, F lBus 32-bit / PC	Hub (GM bus, ether , Mini PC 2S/2) CMCIA 2	rnet MAC I) / :.1 / integ	rated do	License (CI - Lotus® Sm Lotus Note	D not included) nartSuite® Millennium a es® Stand-alone Client 20 watt AC adapter 4 (system-specific info	t
Ports	Four USB (Version 2.0) / para RJ-45 (ethernet) / PS/2 (for ke					/	chip acce	essed over network) d PXE 2.0-compliant	,
Video out IEEE 1394 Wireless antenna Mini PCI 11b Wi-Fi ³² 11a/b Wi-Fi ²⁷ CDC Modem Bluetooth	No video out port None UltraConnect™ Antenna built ir One Mini PCI type III slot (Con Some: 11b Wi-Fi³² wireless⁴, I Some: 11a/b Wi-Fi²⁻ wireless⁴ One Communications Daughte 56K⁵ V.90 (V.92-designed²९) m None standard	nmunications Ba Mini PCI, Intersil , Mini PCI, Athe er Card (CDC) se	ay) / not custor ® Prism 2.5 chi ros™ AR5001⊁ ocket (used by	ner upgr pset (chipset modem)	adable	·	ACPI 1.0b a CIM and DN IBM Imagel IBM Rapid I protect so Internationa 24 hour x 7	or A. 2.0-compliant and 2.0-compliant and 2.0-compliant ll 2.0-compliant	to a
Ethernet Audio support	10/100 ethernet on planar / Br Soft audio / ICH AC97 controll mono speaker / 2 watt / volum	er / DirectSound e up, down, mu	d® support / A[te buttons / no	01981B / internal	AC97 coo mic /			^{®, 22} 2 yr IOR 9x5 NBD 30L91 3 yr IOR 9x5 NBD	190
Security	microphone input jack (3.5 mr Power-on password / hard dis					yhole	ServicePac	30L91 4 yr IOR 9x5 NBD	
Security chip Limited warranty ¹²	None 3 years/1 yr battery - EasySe	rv™,19 onsite pic	kup and delive	ry / servi	ce upgra	des ²² ava	ServicePac	69P91 5 yr IOR 9x5 NBD	
256 MB PC2700 D 512 MB PC2700 D IBM USB 2.0 Porta IBM USB 2.0 Porta IBM GB Microdri IBM USB 2.0 Mem IBM USB 2.0 Mem IBM Optical 3-Butl	nory Key 256MB 22P9 nory Key 512MB 22P9 ton Travel Wheel Mouse 31P7 ton ScrollPoint® Mouse 31P7	830 ThinkPa 832 IBM 11a. 163 GemPC- 196 ThinkPa 280 ThinkPa 228 ThinkPa 230 Keyboar 410 IBM USE 405 TrackPo	d G40 Li-Ion B d 120W AC Ad /b/g Wireless C 400 Smart Card d Nylon Carryi d Premiere Lea d/Mouse Conn B Keyboard wit int Cap Collect tions at ibm.cc	apter CardBus dent dent dent dent dent dent dent dent dent	Adapter /Writer ying Case	07G379 31P895 73P269	Other ServicePac Other ServicePac ibm.con wamomx Post-warrai agreements	nty annual maintenanc s at n/services/its/us/source	199 201 ce/ ce

Type-model Proce	Speed ssor GHz Memory Scre	Disk en GB [®]	Optical	Mini PCI Comm Bay wireless	CDC modem	Ethernet on planar	Battery	Preload	Small and medium business	Avai
2384-DLU Celero 2384-DWU Celero 2384-ECU Pentiu 2384-EHU Pentiu 2384-JOU Celero 2384-JNU Celero 2384-KMU Pentiu 2384-KPU Pentiu 2384-KQU Pentiu	n® 2.4 256MB 14.1" n 2.4 256MB 15.0" m®4 2.8 256MB 15.0" m 4 2.8 256MB 15.0" n 2.6 256MB 15.0" n 2.6 256MB 15.0" m 4 2.8 256MB 15.0" m 4 3.0 256MB 15.0"	XGA 30GB XGA 40GB XGA 30GB XGA 40GB XGA 30GB XGA 40GB SXGA+ 40GB XGA 40GB SXGA+ 40GB SXGA+ 40GB	DVD Combo Combo Combo Combo Combo Combo Combo	None None None None 11a/b Wi-Fi ²⁷ 11a/b Wi-Fi None 11a/b Wi-Fi of the IBM US	Modem Modem Modem Modem Modem Modem Modem Modem Modem	10/100 10/100 10/100 10/100 10/100 10/100 10/100 10/100 10/100	12-cell Li-lon 12-cell Li-lon 12-cell Li-lon 12-cell Li-lon 12-cell Li-lon 12-cell Li-lon 12-cell Li-lon 12-cell Li-lon 12-cell Li-lon	XP Pro XP Pro XP Pro XP Pro XP Pro	Yes Yes Yes Yes Yes Yes Yes Yes	Jan 2004 Jan 2004 Jan 2004 Jan 2004 Apr 2004 Apr 2004 Apr 2004 Apr 2004 Apr 2004
Positioning Processor	Powerful desktop replace Intel® Celeron 2.4 or 2.60							SOF	TWARE ¹	1
L2 cache Memory	Intel Pentium 4 at 2.8 or Celeron: 128MB; Pentium 256MB std / 1GB max ⁷ / I (memory controller limits two 200-pin SO-DIMM sc	3.0GHz ³⁷ with 40 in 4: 512KB; All: 0 PC2100 266MHz speed to 266MH ockets / std mem	DOMHz sy on die (at z or PC2 7 Hz) / non- ory in on	/stem bus processor spe 700 333MHz D parity / CL2.5 /	DŔ1		- Micros Profes -> Disk-to (in hide	rs XP Pro soft® Wind sional ²⁰ o-Disk Re den prote	lows® XP covery	
Diskette drive DVD	3.5" 1.44MB / fixed, not r Some: DVD-ROM / 24X	-8X9 speed / fixe	d, not rer				PreloadAcces			
Combo Disk	Some: DVD-ROM/CD-F 30GB ⁸ or 40GB / 4200 rp					ble / 12.7m	nm - Acces - Adobe	s Connec Reader	tions	
Display	Some: 14.1" (358.1mm) Some: 15.0" (381.0mm) Some: 15.0" (381.0mm)	XGA (1024x768 XGA (1024x768	B) TFT co B) TFT co	lor / Active Ma lor / Active Ma	trix / 150 trix / 150	nits	IBM R IBM R Acces	apid Rest ecordNO s powere	W and Di d by Son	
Graphics	Integrated Intel Extreme						_	o models ideo Win[bo, DVD)
Graphics external EasyPivot	memory (8 to 32MB with External monitor support ThinkPad EasyPivot base	via analog DB-15 e allows smooth	connect positionii	or / up to 1600x ng for a comfor	(1200 at 8 table viev	85Hz / DDC wing angle	• PC-Do • Think	Pad Utilitie	es	,
Keyboard ComfortSlant	87-key / Access IBM butt ThinkPad ComfortSlant k							pdate Cor	nector™	15
TrackPoint® Touch pad	TrackPoint®pointing devisoft dome TrackPoint cap No touch pad (UltraNav™	ice, "Press-to-Se o / ships with cla	elect," Inte ssic dom	ernet Scroll Ba e and soft rim	r¹³, magn TrackPoi	ifying glas	IBM D Software	irector Ag are Delive n Migratio	ry Assista	
Dimensions ³ Weight ²	12.9" x 11.1" x 1.5-2.0"; 3: with optical drive and bat	29mm x 282.5mr	n x 37.1-	50.9mm; <i>Volun</i>	ne: 4 liters	3	'	(CD not i		
Case material Battery - type Battery - life ¹⁰	ECU: 8.36 lb (3.86 KMU: 8.56 lb (3.86 Color: black; All: Acrylo Lithium Ion 12-cell / intelli KPU/KQU: up to 2.0 hr; E	0kg); JNU: 8.52 9kg); KPU: 8.83 nitrile-Butadiene igent/removable	lb (3.87 k lb (4.01k e-Styrene	(g); <i>DWU/EHU</i> g); <i>KQU:</i> 8.87 e/Polycarbonat	l: 8.54 lb (lb (4.03kg e (ABS/P	3.88kg); g) C) plastic	Lotus	SmartSu Notes® St	and-alon	e Client
Architecture PC Card Std slots Ports	Intel 852GM chipset / 828 82801DBM ICH4-M I/O C Low Pin Count (LPC) inte PCI bus 2.2 32-bit, 33MH LPC bus 33MHz (PC8738 One Type I, one Type II, Four USB (Version 2.0) / RJ-45 (ethernet) / PS/2 (i	852GM Graphics ontroller Hub (A ^T rface, USB, Firm z (TI [®] PCI1410A 93F Super I/O for or one Type III / parallel / externa	Memory ΓA-100 E ware Hul CardBus diskette, CardBus al monito	Controller Hub IDE, PCI bus, 6 b) / controller, Min parallel, PS/2) 32-bit / PCMC r (DB-15) / RJ-	(GMCH) ethernet N ii PCI) / IA 2.1 / ir 11 (mode	/ //AC, ntegrated (em) /	Asset ID chip a PC 2001 ACPI 1.0 CIM and IBM Ima IBM Rap protect	an 120 wa yi™,34 (sysi ccessed of and PXE bb and 2.0- geUltra™ yid Reston tsoftward onal Warl	em-spec over netward 2.0-complian complian Services re PC avarde image a	ific info in vork) pliant nt t available iilable to nd data
Video out IEEE 1394	No video out port None						24 hour	x 7 day ¹⁸ ort during	toll-free v	varranty
Wireless antenna Mini PCI	Some (wireless models): One Mini PCI type III slot	UltraConnect™ / (Communication	Antenna I ns Bav) /	ouilt into the dis not customer u	play cove	er le		BM-SERV		
None 11a/b Wi-Fi ²⁷	Some: empty / not custor Some: 11a/b Wi-Fi ²⁷ wire	mer upgradable					Servicel	Pac ^{®, 22} 1y	r IOR 9x	5 NBD 30L918
CDC Modem	One Communications Da 56K ⁶ V.90 (V.92-designed	ughter Card (CD	C) socke	t (used by moḋ		accessible	Servicel	Pac 2 yr I	OR 9x5 N	BD
Bluetooth	None standard (optional F	PC Card available	e)		VE /\\-\-	I ANI®	Servicel	Pac 3 yr I	OR 9x5 N	
Ethernet Audio support	10/100 ethernet on plana Soft audio / ICH AC97 co	ntroller / DirectS	ound® si	ipport / AD198	1B AC97			Pac 4 yr l	OR 9x5 N	30L919 BD
	mono speaker / 2 watt / v microphone input jack (3	olume up, down .5 mm) / headph	, mute bu one iack	ıttons / no inter (3.5 mm) / no l	nal mic / ine in iacl	k	Servicel	Pac 5 yr I	OR 9x5 N	30L9194
Security Security chip	Power-on password / hai	d disk password	I / superv	isor password	/ security	keyhole		•		30L9196
Limited warranty ¹²	1 year - EasyServ™,¹9 on	site pickup and o	delivery /	service upgrad	es ²² avail	able		Pac 2 yr F		30L919
256 MB PC2700 E	bo Drive	31P9830 Think 31P9832 IBM 1 05K9276 Think 73P4515 Think	:Pad 120' 1a/b/g W :Pad Mon Pad Nylo	Li-Ion Battery W AC Adapter /ireless CardBo itor Stand 200 n Carrying Cas niere Leather C	us Adapte 1 e	22P5 10K0	178 150 Servicel 101 265 Servicel 207	Pac 3 yr F Pac 4 yr F Pac 5 yr F ervicePac	P&L P/U I	30L9192 Depot 69P919 Depot 69P919
IBM USB 2.0 Porta	able 40GB Hard Disk	22P7196 Keyb	oard/Mοι	use Connector p Collection	,9	07G3 73P2	793 ibm.d	com/serv	ices/its/u	
IBM USB 2.0 Men IBM Optical 3-But IBM USB Serial P	nory Key 512MB ton ScrollPoint Pro Mouse arallel Adapter	22P9230 IBM L 31P8700 IBM N 22P5298 IBM E	JSB Keyl 1400 Pro E400 Proj	poard with Ultra jector jector		31P89 0037/ 0038/	Post-wa A04 agreem A04 ibm.c	com/serv	nual mair ices/its/u:	
IBM USB Numerio	скеураа	33L3225 Other	options	at ibm.com /pc	/us/acces	ssories	masp	spleu.pdf		

	Speed		Disk	Mini PCI Comm Bay	CDC	Ethernet on			orkhorse obal or En					
Type-model Proces		Screen	GB ⁸ Optica	wireless	modem	planar	Battery	Preload		date				
2388-F1U Pentiur 2388-F3U Pentiur 2388-F4U Pentiur 2388-F5U Pentiur 2388-F6U Pentiur • <i>US G</i>	m 4 3.0 256MB m 4 3.0 256MB m 4 2.6 256MB m 4 2.6 256MB	15.0" XGA 4 15.0" SXGA+ 4 15.0" XGA 4 15.0" SXGA+ 4 15.0" SXGA+ 6	10GB Combo 10GB Combo 10GB Combo 10GB Combo	o 11b Wi-Fi o 11a/b Wi-Fi o 11a/b Wi-Fi o 11a/b Wi-Fi	Modem	10/100 1 10/100 1 10/100 1 10/100	2-cell Li-lon 2-cell Li-lon 2-cell Li-lon 2-cell Li-lon 2-cell Li-lon 2-cell Li-lon	XP Pro XP Pro XP Pro XP Pro	TAA TAA TAA TAA TAA TAA	Jan 2004 Jan 2004 Jan 2004 Jan 2004 Jan 2004				
Positioning	Powerful desktop re	enlacement: three	e-snindle svst	 em				SOFT	WARE ¹⁴					
US Govt (TAA) ⁵ Processor L2 cache Memory	All: US Governmentel® Pentium 4 at 512KB / on die (at p 256 or 512MB std / two 200-pin SO-DII	- Microso Profess > Disk-to	Windows XP Professional - Microsoft® Windows® XP Professional²0 ⇒ Disk-to-Disk Recovery (in hidden protected area)											
Diskette drive Combo Disk	3.5" 1.44MB / fixed DVD-ROM/CD-RW 40GB ⁸ or 60GB , 42	Preloade • Access	IBM	,										
Display	Some: 15.0 " (381.0 Some: 15.0 " (381.0 one latch to	0mm) XGA (102 0mm) SXGA+ (1 unlatch and ope	400x1050) TI	T color / Acti	/atrix / 150 ve Matrix /	nits 150 nits	Access Adobe I IBM Ra IBM Re	Reader pid Resto	re™ PC	M Drive				
Graphics external EasyPivot	Integrated Intel Ex memory (8 to 32ME External monitor su ThinkPad EasyPivo	B with 128MB me ipport via analog	emory; 8 to 64 DB-15 conne	IMB with 256 ctor/up to 160	MB+) / 133 00x1200 at	MHz / DMVT 85Hz / DDC2	Letter A	Access (c deo WinD' AntiVirus	ombo mo VD (comb	odels) oo models				
Keyboard ComfortSlant TrackPoint®	• ThinkP • IBM Up • Downloa • IBM Dir	ad Utilitie date Con dable ector Age	nector™ ^{,1} ent											
Touch pad Dimensions ³	No touch pad (Ultra	2.0"; 329mm x 28	32.5mm x 37.1	-50.9mm; Vo	lume: 4 lite	rs	Softwar System	re Deliver Migration						
Weight ² Case material	Weight ² with optical drive and battery: F1U/F4U: 8.54 lb (3.88kg); F2U: 8.85 lb (4.02kg); F3U/F6U: 8.89 lb (4.04kg); F5U: 8.58 lb (3.90kg)									License (CD not included) - Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client				
Battery - type Battery - life ¹⁰	Lithium Ion 12-cell F1U: 2.8 hr; F2U/F	/ intelligent / reme <i>-3U/F6U:</i> 2.0 hr <i>;</i>	ovable <i>F4U/F5U:</i> 3.	0 hr	`					ment IBM				
PC Card Std slots Ports	Intel 852GM chipse 82801DBM ICH4-M Low Pin Count (LPC PCI bus 2.2 32-bit, LPC bus 33MHz (P One Type I, one Type Four USB (Version (ethernet) / PS/2 (fo	/I I/O Controller H C) interface, USE 33MHz (TI® PCI C87393F Super pe II, or one Typ 12.0) / parallel / 6	lub (ATA-100 B, Firmware H I 410A CardBu I/O for diskett e III / CardBu external monit	ÉIDE, PCI bus ub) / us controller, N e, parallel, PS s 32-bit / PCN tor (DB-15) / F	s, ethernet Mini PCI) / /2) MCIA 2.1 / i	MAC, ntegrated do	Universa Asset ID ¹ chip ac PC 2001 ACPI 1.0	design; visit ibm.com/thinkvanta Universal 120 watt AC adapter Asset ID ^{TM,34} (system-specific in chip accessed over network) PC 2001 and PXE 2.0-complian ACPI 1.0b and 2.0-compliant						
Video out IEEE 1394 Wireless antenna Mini PCI None 11b Wi-Fi ³² 11a/b Wi-Fi ²⁷ CDC Modem Bluetooth Ethernet Audio support	(ethernet) / PS/2 (for keyboard or mouse) / no serial or infrared Video out IEEE 1394 Wireless antenna Mini PCI None 11b Wi-Fi³² 11a/b Wi-Fi³² 11a/b Wi-Fi³² CDC Modem Bluetooth None Volume (ethernet) / PS/2 (for keyboard or mouse) / no serial or infrared No serial or infrared None (wireless models): UltraConnect™ Antenna built into the display cover One Mini PCI type III slot (Communications Bay) / not customer upgradable Some: empty / not customer upgradable Some: 11b Wi-Fi³² wireless⁴, Mini PCI, Intersi¹® Prism 2.5 chipset Some: 11a/b Wi-Fi³² wireless⁴, Mini PCI, Atheros™ AR5001X chipset One Communications Daughter Card (CDC) socket (used by modem) / not accessible S6K⁵ V.90 (V.92-designed²⁵) modem in CDC / Agere® chipset None								e PC avaimage aimage ai	available ilable to nd data rice ¹⁷ rarranty nty ¹² via 8) 5 NBD 30L9188 BD 30L9189				
Security Security chip	Soft audio / ICH AC mono speaker / 2 w microphone input ja Power-on passwor None	vatt / volume up, ack (3.5 mm) / h	down, mute b eadphone jac	outtons / no in k (3.5 mm) / n	ternal mic / o line in jac	/ ck	ServiceP ServiceP	ac 3 yr IC ac 4 yr IC		30L9195				
Limited warranty ¹²	, ,									BD 30L9196				
256 MB PC2700 E 512 MB PC2700 E IBM USB 2.0 Com IBM USB 2.0 Porta IBM USB 2.0 Porta IBM USB 2.0 Porta TrackPoint Cap C IBM USB 2.0 Men IBM USB 2.0 Men IBM Optical 3-But	bo Drive able Multi-Burner able 40GB Hard Driv ollection nory Key 256MB nory Key 512MB ton Travel Wheel Mo	SOD 31P9830 SOD 31P9832 05K9276 73P4515 22P9163 73P2698 22P9228 22P9230 ouse 31P7410	ThinkPad 1 IBM 11a/b/ Kensington ThinkPad N ThinkPad N ThinkPad L ThinkPad C Keyboard/N IBM USB K IBM Enhan	A40 Li-Ion Bat 20W AC Ada, g Wireless Ca MicroSaver Monitor Stand Jylon Carrying eather Carryi Carrying Case Mouse Conneceyboard with ced Performar	oter IrdBus Ada Security C 2001 G Case Ing Case - Expande ctor UltraNav	22P918 pter 31P910 cable 73P258 22P520 10K020 10K020 r 73P359 07G37 31P898	50 01 ServiceP 35 ServiceP 09 ServiceP 97 97 98 Other Se ibm.c wamo	ac 4 yr Pac 5 yr Pac 5 yr Pac 6 yr Pac	&L P/U D &L P/U D &L P/U D options a ces/its/us	Depot 30L9191 Depot 30L9192 Depot 69P9195 epot 69P9197 t /source/				
			IBM M400 I IBM E400 F IBM C400 F Other optio	Projector	n /pc/us/ac	0037A(0038A(0039A(cessories	04 agreeme 04 ibm.c	ranty ann nts at om /servic spleu.pdf						

							. 0.00	nai Systems Reieren		
Type-model Processo		Screen	Disk		Hand	Comr	n Bay	Preload	Available	
2675-21U Pentium® 2675-22U PentiumI 2675-61U PentiumI 2675-62U PentiumI	II 600 64MB 1 II 600 64MB 1		10GB 1 10GB	ThinkScribe™ notepad ThinkScribe notepad ThinkScribe notepad ThinkScribe notepad	Left	etherne	t/modem	Windows® 98 SE Windows 98 SE Windows 2000 Windows 2000	Feb 2001 Feb 2001 Feb 2001 Feb 2001	
IBM ThinkPad Tran	sNote portfolio no	otebook is a revolut	ionary po	rtfolio notebook that integ	grates p	paper and	d ink with a	a mobile computer		
Processor	Intel® Mobile Pe frontside bus	ntium® III 600MHz	with Intel	I SpeedStep™ technology	y ¹ and ¹	100MHz		IDOWS 98 PRELO		
L2 cache Memory	256KB / onboard 64MB standard /		7/ŚDRAN	; // / non-parity / 100MHz / temboard / 1 socket avail		0/3.3v/	EditionInk Mai	oft® Windows® 98 S nager™ Pro st-It® Notes Lite	secona	
Diskette drive CD or DVD-ROM Disk	None standard / o None standard / o 10GB ⁸ / user upg	 TouchBoard™ on-screen keybo Utility Wizard ThinkPad Assistant™ 								
Display	FlipTouch™ scre exposing the key across from user	board / image and · /	display / d screen bo	/ Active Matrix / isplay can be used flat or oth invert to share work w ch Button, Mute Button	raised ith son	neone	AccessPC-DoConfigsLotus S		um CD	
Graphics - external Digital notepad	External SVGA to		nillion col	C2B ors at 100Hz and up to 16 saves handwritten notes	00x12	00	♦ Recover (Windows)	ery CD-ROM ws 98 SE) -Disk Recovery (in		
Digital pen Keyboard FlexFold™ design	Digital pen used Ergonomic keybo	l for handwritting ar oard, 95% size / Tr	nd for touc ackPoint®	ch screen functions P, "Press-to-Select," Interr e quick motion to use one			hidden	Service Partition) IDOWS 2000 PRE		
Dimensions ³ Travelweight ² Cover material Battery	pad) independen 12.6" x 11.1" x 1. 5.5 lbs; 2.5 kg (in Endurimer™ cove Lithium Ion 4-cell	atly, even standing and a standing and a standing and a standing and a standing and a standing and a standing a standing and a standing a stand	/ available nm x 33mi and papei er) nas warm	e for right- or left-handed u m r pad) swap bridge battery			ProfessInk Mai3M Pos	nager™ Pro st-It® Notes Lite Board™ on-screen k	keyboard	
Battery - life ¹⁰ Architecture Intel 440ZXM chipset / Intel PIIX4M (EIDE with Ultra DMA/33 or PIO Mode 4 support, ISA Bridge, USB) / PCI 2.1, 32-bit, 33MHz (graphics, EIDE, CardBus, audio) / Ricoh® R5C476II CardBus controller for PC Card and Compact Flash /								 ThinkPad Assistant™ IBM Update Connector™.15 Access ThinkPad II PC-Doctor™ ConfigSafe 		
Port replicator Docking Station Compact Flash slot PC Card Std slot Ports	Optional TransNo None Compact Flash One Type II / Car Two USB (Versio	slot / 1 CF+ Type rdBus 32-bit / PCM on 1.1) / external D	II / suppor ICIA 2.1 B-15 mon	power, two USB ports) ts optional IBM Microdriv iitor / RJ-11 (modem) / , keyboard, or mouse por			♦ Lotus S♦ Recove♦ Softwa♦ Disk-to	Sare SmartSuite Millenni ery CD-ROM (Wind re Selections CD-F -Disk Recovery (in Service Partition)	lows 2000) ROM	
Video out Communicatns Bay	None		-	ot / customer accessible	13		- Uses re	ThinkScribe Digital Notepad Uses regular pad of paper (up to		
Ethernet/modem Audio support	Lucent modem cl PCI audio / Soun mono speaker / C internal micropho	hip set idBlaster Pro™ sup).25 watt / mute but one / input jack (3.5	port / CS4 tton / softv mm) / ou	56K Modem / Intel etherr 4281 with CS4297A AC9 ware volume control / utput jack (3.5 mm) / line i	7 code n jack	c/	right handed models available. - Automatically saves handwrit notes and transfers them to I link Manager Pro			
Limited warranty ¹² Service options ²²	1 year - EasySer	v™,19 onsite pickup	and deliv	upervisor pwrd / sécurity ery courier service e years of onsite or depot			2MB fla - Stores	up to 50 pages of n sh memory even with PC off an rred when PC powe	nd	
OS support ¹¹	coverage from da Microsoft Windov	ate of ThinkPad pur ws 98 Second Editi	rċhase (in	cluding warranty period) ows 2000 Professional, W	•		lialiste	Digital Pen	ereu ori	
Communication Bay - IBM 10/100 EtherJ 56K Modem by 3Co - IBM 10/100 EtherJ 56K Modem Devices for IBM Por	om et Mini PCI Adapt able Drive Bay 20	er with	USB Porta 64MB SO 128MB SO 256MB SO TransNote	able Diskette Drive able CD-ROM DIMM 100MHz NP SDRA D DIMM 100MHz NP SDR D DIMM 100MHz NP SDR e Li-lon Battery e Port Extender	AM 2 RAM 2 RAM 3	05K9276 03L5151 00L0254 00L0255 03L3069 02K6713	- Used th 1. Write paper (2. Touc 3. Move pen on	red on side of syst aree ways with ink (blue or b can be saved to PC h screen (either re- e mouse cursor by paper (with ink side or red cap on)	lack) on C) d end) moving	
- Portable Drive Bay (USB or PC Card) - 8X/8X/24X ⁹ CD-Re - 8X-3X DVD Ultraba - 2X SuperDisk (LS- - 10GB Ultrabay 200 - 20GB Ultrabay 200 - 32GB Ultrabay 200 * accepts Ultrabay requires Second 08K6068	ad/Write Ultrabay y 2000 Drive 120) UltraBay 0 Disk Drive** 0 Disk Drive** 0 Disk Drive** 2000 storage devi	19K4480 08K9569 27L3448 27L3451 08K9510 27L3439 08K9511	Multi-Port USB to Pa TransNote ThinkScril ThinkScril 10GB HD 20GB HD 1GB Micre ThinkPad	USB Hub arallel Printer Cable e Digital Pen be Paper Pads (A4) be Paper Pads (Letter) D	0 0 0 0 0 0 0	00N8215 9K4164 9K4164 92K5280 4P3685 4P3686 8K9510 77L3439 77N5574 92K6699 4P6135	72 watt A PC-99, W Local and ment v Manag IBM Imaç IBM Rapi protect Setup Gu Windo	C Adapter /fM 2.0, DMI 2.0-co d remote asset mar ia the IBM Universi eability solutions yeUltra™ Services a d Restore™ PC ava software image ar ide, User's Referen ws OS manual	nage al available ailable to nd data nce,	
Wireless connectivit - IBM High Rate Wir - High Rate Wireless - Bluetooth PC Card	eless PC Card 12 Access Point 50	8 09N9904		com/options (U.S.) m/pc/ca/accessories (CA	A)		Internation 24 hour x	ized Web-based su onal Warranty Servi 7 day ¹⁸ toll-free ha t during the warran	ice ¹⁷ Irdware	

Availability: All offers subject to availability. IBM reserves the right to alter product offerings and specifications at any time, without notice. IBM is not responsible for photographic or typographic errors.

Warranty: For a copy of applicable product warranties, write to: Warranty Information, P.O. Box 12195, RTP, NC, 27709, Attn: Dept JDJA/B203. IBM makes no representation or warranty regarding third party products or services.

Footnotes:

- With Intel SpeedStep, processor speed may be reduced to conserve battery power.
- ² Travel weight includes battery and optional travel bezel instead of standard optical drive in Ultrabay bay, if applicable; weight may vary due to vendor components, manufacturing process and options.
- Thinness may vary at certain points on the system.
- Wireless capability: Requires compatible wireless-enabled options sold separately.
- 5 TAA: ThinkPad notebook is compliant with the U.S. Federal Government's country-of-origin requirements prescribed in 48 C.F.R. Subpart 25.4; Trade Act Agreement (TAA) model.
- Public network download speeds are limited to 53Kbps. Upload speeds are limited to 31.2Kbps. Compatible phone line and server equipment required. Actual speeds depend on many factors and are often less than the maximum possible.
- Maximum memory and hard disk drive capacity may require the replacement of standard component with largest supported component available.
- B Hard drive: GB = billion bytes, TB = trillion bytes. Accessible capacity may be less; up to 4GB is used in service partition.
- 9 CD/DVD drive speeds list maximum rates; rates are variable and are often less than the maximum.

- 10 Battery: These model numbers achieved the Ziff Davis Media Inc.'s Business Winstone 2002 BatteryMark™ Version 1.0, Battery Rundown Time of at least the times shown. This test was performed without independent verification by the VeriTest testing division of Lionbridge Technologies, Inc. ("VeriTest") nor Ziff Davis Media Inc.; neither Ziff Davis Media Inc. nor VeriTest makes any representations or warranties as to these test results. Winstore is a registered trademark and BatteryMark is a trademark of Ziff Davis Publishing Holdings Inc., in the US and other countries. A description of the environment under which the test was performed is available at ibm.com/pc/ ww/thinkpad/batterylife. Battery life (and recharge times) will vary based on many factors including screen brightness, applications, features, power management, battery conditioning and other customer preferences. Refer to ibm.com/pc/support and enter machine type and model number for more information.
- Memory: For ThinkPad models without a separate video card, memory supports both system and video. Accessible system memory may be up to 64MB less than the amount stated, depending on video mode.
- Limited warranty: Support unrelated to a warranty issue may be subject to additional charges.
- 13 Internet access not included.
- ¹⁴ Included software may differ from its retail version (if available), and may not include user manuals or all program functionality. Software license agreements may apply.
- ¹⁵ Update Connector is available to registered ThinkPad customers during the limited warranty period at no charge. Line charges may apply.
- ¹⁶ IBM Embedded Security Subsystem works with optional VPN software.
- ¹⁷ International Warranty Service is available in any country in which this product is sold and serviced. Service delivery methods and parts availability vary by country, may be different from that in the country of purchase, and are subject to change without notice. Fees and restrictions may apply in some countries.

- ¹⁸ **Telephone support** may be subject to additional charges, even during the limited warranty period. If a machine is listed as having "On-site service for select repairs", this means that onsite service is available only for the replacement of select parts. For all other warranty repairs, IBM will provide the customer a replacement part for customer installation. The parts for which onsite service is available varies by machine, but may include the processor, power supply, heat sink, system board, or base cover. For IBM machines with EasyServ or Courier service, IBM will attempt to diagnose and resolve the problem remotely before sending a courier.
- ¹⁹ Depot repair: The customer may be asked certain diagnostic questions before a courier is sent. Your ThinkPad purchase includes this depot repair service, available in the U.S. during the warranty period.
- ²⁰ Delivered with Windows 2000, Windows XP Professional, or Windows XP Home Edition preloaded and a recovery partition on the hard disk drive.
- For combination drives, maximum possible speeds only are given in the following order: CD write, CD rewrite, CD read, DVD read.
- 22 These services are available for machines normally used for business, professional, or trade purposes, rather than personal, family, or household purposes. Not all machine types and models are covered. Service period begins with the equipment date of purchase. Service must be purchased during the original limited product warranty period. If the machine problem turns out to be a Customer Replaceable Unit (CRU), IBM will express ship the part to you for quick replacement. Onsite 24x7x2-hour service is not available in all locations. For ThinkPad notebooks requiring LCD or other component replacement, IBM may choose to perform service at the depot repair center.

- For ThinkPad X Series, the 32GB, 48GB, and 60GB HDD only supports ThinkPad Dock, UltraBase X2, or X3 UltraBase media slice and requires the ThinkPad Second HDD Adapter for Ultrabay 2000.
- ²⁴ Systems with limited onsite service are designed to be repaired during the applicable warranty period primarily with customer-replaceable parts provided by IBM. IBM will only send a technician onsite to perform a repair if (a) remote telephone diagnosis and/or customer part replacement are unable to resolve the problem, or (b) the part is one of the few designated by IBM for onsite replacement. For a list of onsite replaceable parts, contact IBM. Support unrelated to a warranty issue may be subject to additional charges. IBM onsite repair (IOR), 8 am to 5 pm, Monday through Friday coverage excluding holidays, next business day response time.
- ²⁵ Linux preloaded systems do not support UltraPort connector solutions and S-video-out port that may be included on this machine.
- ²⁶ As defined by ISO/IEC 15412.

- ²⁷ Based on IEEE 802.11a and 802.11b. A customer can not upgrade to a different wireless Mini PCI adapter due to FCC regulations. Security screws prevent removal of this adapter. This wireless LAN product has been designed to permit legal operation world-wide in regions which it is approved. This product has been tested and certified to be interoperable by the Wireless Ethernet Compatibility Alliance and is authorized to carry the Wi-Fi logo.
- ²⁸ **Certain Microsoft software products** included with this computer may use technological measures for copy protection. IN SUCH EVENT, YOU WILL NOT BE ABLE TO USE THE PRODUCT IF YOU DO NOT FULLY COMPLY WITH THE PRODUCT ACTIVATION PROCEDURES. Product activation procedures and Microsoft's privacy policy will be detailed during initial launch of the product, or upon certain reinstallations of the software products or reconfigurations of the computer, and may be completed by Internet or telephone (toll charges may apply).
- Public network download speeds are limited to 53Kbps. Upload speeds are limited to 48Kbps for V.92 modems. Actual speeds depend on many factors and are often less than the maximum possible. V.92 functions and speeds require compatible phone line and server equipment. Check with your telephone and ISP service providers for availability. Requires download of V.92 microcode when available and country approval.
- ³⁰ Measures only maximum data transfer rate, not application performance. Many factors affect application performance.
- ³¹ Internet access account (not included) and profiling at ibm.com/support required.
- Wireless: based on IEEE 802.11a, 802.11b, and 802.11g respectively. An adapter with 11a/b, 11b/g, or 11a/b/g can communicate on either/any of these listed formats respectively, the actual connection will be based on the access point to which it connects.

- 33 IBM Embedded Security Subsystem requires download of client security software from the Web and requires Internet access, not included.
- ³⁴ Asset ID allows system-specific information to be stored in a chip inside the system; it does not have any radio frequency support.
- Operating system: Level of support varies by operating system. Operating systems not preloaded on the system may not provise full feature functionality. Refer to ibm.com/pc/support and enter your machine type and model number for more information.
- Wireless upgradable allows the system to be wireless-enabled with an optional wireless Mini PCI card. These systems are designed to operate only with wireless LAN Mini PCI options sold by IBM.
- Mobile processors: Power management features reduce processor speed when in battery mode.

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