Tuno-model Process	car Speed Memory Sero	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	and -	(in hidden Service Partition) Windows 2000 models - Microsoft Windows 2000 Professional ¹³ • ConfigSafe®				
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	500 / AGP 4X / 32MB DDF analog DB-15 connector / external digital monitor ⁵ via tional docking solutions	R-SDRAM 166MHz up to 2048x1536x16. a the Digital Video Inte	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	r / pitch: 19mm; strok t conditions	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)	nd battery in Ultrabay	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	troller Hub (ATA-100 EIDE ce, USB [Bluetooth], Firmy rdBus/1394 combo controll Super I/O for diskette, seria plicator loludes Ultrabay 2000 and e III / CardBus 32-bit / PCM 9-pin serial / parallel / externior of the serial / parallel / externior externior of the serial / parallel / externior ext	i, PCI bus, ethernet M vare Hub) / PCI bus 2. ler, Mini PCI, ext expar al, parallel, infrared) half-size PCI slot) MCIA 2.1 / no Zoomec ernal DB-15 monitor /	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) / ir None One Mini PCI IIIb slot (Com Some: Mini PCI Wi-Fi ³² wire 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	Ļ	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 rive 08 rive 08 Rive 08 R Drive (5400 rpm) 08 R Drive (5400 rpm) 08 R Drive 08 R Drive 08 R Drive 09 R UltraBay 2000 22 R Ultrabay 2000 22 R D Ultrabay 2000 08 R Drive 09 R D II Ultrabay 2000 08 R D D B D B D B B B B B B B B B B B B B	K0030 IBM ThinkPad Ultral K0032 ThinkPad Ultrabay K06068 ThinkPad Dock K9687 IBM USB Sleek Mo K9688 IBM USB Numeric K9603 IBM USB Sleek Mo K9606 Portable Drive Bay K9601 Toldo Enter Jet M K9010 ServicePac 2yr IOF K6670 ServicePac 3yr IOF K6676 ServicePac 3yr IOF K6646 ServicePac 3yr IOF K6646 ServicePac 3yr IOF K66666 ServicePac 3yr IOF K6676 ServicePac 3yr IOF K667	bay Plus c500 Cradle Plus Numeric Keypd licator use Keypad emory Key 2000 CardBus Adapter dini PCI (3Com) IOR 9x5 NBD R 9x5 NBD R 9x5 NBD L P/U Depot	22P5738 A 22P7330 C 02K8667 II 263120U 33L3244 33L3225 S 22P5296 19K4480 F 08L3147 F 09N9774 II 30L9188 2 30L9189 3 30L9195 30L9191 30L9192	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/mod10/100 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 \$\(\Delta\) 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 Subsystem ³³ / hardware key storage / mulit-factor authentication / local file encryption / enhances VPN security ¹⁶	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 Removal 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 02K6699 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	ssor S	Speed	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	.6GHz .8GHz .8GHz .6GHz .6GHz .8GHz .8GHz .8GHz .6GHz .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 Jun No Ma No Ma No Jun	n 2002 n 2002 n 2002 n 2002 n 2002 n 2003 ar 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 two 200	7 on di 256ME 0-pin S	e (at pro std / 10 O-DIMN	cessor spee BB max ⁷ / PC I sockets / st	d) / EC0 2100 D d memo	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: Some: Two m Ultraba 20 or 4	CD-RC Combo lodular ay Plus 0GB8 /	OM / 24X o / 8X/8X r bays fo s (right s upgrada	-10X ⁹ speed /24X/8X ²¹ sp r interchang ide) / Ultraba ble / S.M.A.	/ boota beed / bo eable do ay 2000 R.T. / 12	ble / remov botable / 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 z / 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 TrackP Illumina	/ Web Point®, " ates the	navigati Press-to e keyboa	on keys (6 to o-Select," Int ard to improv	otal, 3 cu ernet So e visibil	ıstomizabl 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 ba Lithium Mxx: 2.	attery ain lon 6- 1.3 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	828010 Low Pin (Ricoho LPC bu Options 2 Type Two US	CAM IC n Coun R5C5 us 33M al Thin I, 2 Ty 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 ombo 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 Mi Some: Two Co Some: 10/100	o out point PCI Mini PCI display 56K ²⁹ ommun 56K ²⁹ 0 ethern	ort (TV o type III s CI 11b V y cover, ' V.90 (V.: ications V.90 (V.: et on CI	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, Outloness Tool	nt el ook,
Audio support Security	volume Power- Some:	e up, do on pas IBM E auther	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-SDI DR-SDI DR-SDI DR-SDI DR-SSM 2.0 Mem bble Disk DVD Ultr bbo IV Ultrabay 2 ies Li-lo on batter	RAM CI RAM CI RAM CI JItrabay m (5400 nory Key kette Dr rabay 2 Itrabay 2000 n Batte	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 Re Pad Port Re Pad Port Re Pad Dock Island Dock Island Dock Island Isl	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 Are suide I Warranty Service I	ng the depped are continued and dependence on the continued are continue	e to ita le- nual

Type-model Proces	sor Speed Memory Screen D	Ultrabay Mini PCI CD Disk optical wireless/modem ether					
2652-P3U Pentium 2652-P4U Pentium 2652-P5U Pentium 2652-P6U Pentium	**4-M 1.9GHz 256MB 15" XGA 30 4-M 1.9GHz 256MB 15" XGA 30	DGB ⁸ DVD Open 10/1 DGB DVD Open 10/1 DGB DVD 11bWi-Fi ³² /mod 10/1 DGB DVD 11bWi-Fi/mod 10/1	00 Modem 00 Modem 00 Open Yes	XP Pro W G Sep 2002 2000 Sep 2002 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 alternat Mobile Intel® Pentium® 4 Process enhanced Intel® PenedStep™ technot 512KB / on die (at processor speed 256MB std / 1GB max² / PC2100 D two 200-pin SO-DIMM sockets / std None standard / use optional Ultrab DVD-ROM / 8X-3.3X³ speed / boots Two modular bays for interchange Ultrabay Plus (right side) / Ultraba 30GB³ / upgradable / S.M.A.R.T. / 1 supports two additional disks with o	or-M 1.9GHz with ology¹ and 400MHz frontside bus 1) / ECC DR-SDRAM / non-parity / 266MH memory in one socket / one socl ay™-based or USB-based diskett able / removable from Ultrabay Pluable devices / Ultrabay 2000 (lefy 2000 left bay empty at ship (use 2.5mm bay /	Iz ³⁰ / 2.5v / ket available e drive us t side) and s Travel Bezel)	SOFTWARE ¹⁴ Windows 2000 models - Microsoft® Windows® 2000 Professional® • ConfigSafe®			
Display	15.0" (381mm) XGA (1024x768) T	FT color / Active Matrix / 200:1 co	ontrast	(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 docking	GP 4X / DDR-SDRAM 166MHz / 16 DB-15 connector / up to 2048x15 I digital monitor via the Digital Vid g solutions	6MB 36x16.7M colors leo Interface (DVI)	INCLUDED SOFTWARE ¹⁴ (all) Preloaded • Access ThinkPad - Access Connections			
Keyboard ThinkLight™ Case material	87-key / Web navigation keys (6 tot TrackPoint®, "Press-to-Select," Inte Illuminates the keyboard to improve Color: Black; Top: ABS plastic; Bo	ernet Scroll Bar ¹³ / pitch: 19mm; st e visibility in low-light conditions / r	roke: 2.7mm no UltraPort™	- 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"; 32 with battery and optical drive: 7.5 lb Lithium Ion 6-cell 10.8V 4.0Ah / inte 2.5 hr; All: universal 72 watt AC ada	(3.4kg) Illigent / supports 2nd battery in U	ltrabay 2000	 ThinkPad Utilities IBM Update Connector^{TM,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, USI (Ricoh® R5C552 CardBus/1394 cor 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) / one 9-pin s infrared (4Mbps) / RJ-11 (modem) /	Hub (ATA-100 EIDE, PCI bus, eth B, Firmware Hub) / PCI bus 2.2 32 mbo controller, Mini PCI, ext expan /O for diskette, serial, parallel, infr Ultrabay 2000 and half-size PCI s ardBus 32-bit / PCMCIA 2.1 / integ serial / parallel / external DB-15 m	-bit, 33MHz sion) / cared) slot) grated door onitor /	Downloadable ■ 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 Lotus Notes® Stand-alone Client Office XP Small Business model only (2652-PTU) ■ Microsoft Office XP Small Business²8 (Word, Excel, Outlook, Publisher, Small Business Tools) ♦ Office XP Small Business CD			
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 (Commun Some: Mini PCI 11b Wi-Fi ³² wireles display cover, Wi-Fi certified 56K ²⁹ V.90 (V.92-designed ² Two Communications Daughter Ca Some: 56K ²⁹ V.90 (V.92-designed ² 10/100 ethernet on CDC / Intel 8256	ications Bay) / customer upgrada s ⁴ , Intersil® Prism 2.5 chipset, dual / ⁹) modem combo, Agere® chipset rd (CDC) sockets / customer acce ⁹) CDC modem card / Agere® chic	ble antennas in essible				
Audio support Security	SoundBlaster Pro [™] -compatible / Al volume up, down, mute buttons / m Power-on password / hard disk pas <i>Some:</i> IBM Embedded Security S authentication / local file encryption	D1881A AC97 codec / stereo speic input jack / output jack / line in sword / supervisor password / secubsystem33 / hardware key stora / enhances VPN security16 / TCP.	jack urity keyhole / ge / multi-factor				
Limited warranty ¹² Service options	1 year - EasyServ ^{TM,19} onsite pickup Service upgrades ²² provide up to fix coverage from date of ThinkPad pu	e years of onsite or depot repair :	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	DR-SDRAM CL2.5 SOD 10K0030 DR-SDRAM CL2.5 SOD 10K0032 Iter for Ultrabay 2000 08K66068 08K9686 08K9686 08K9686 08K9686 08K9686 08K9686 08K9686 08K9686 08K9603 08K9603 08K9603 08K9603 08K9603 08K9603 08K9603 08K9603 09K9616 09	FhinkPad A30 Series Li-Ion Battery JItrabay 2000 Li-Ion battery Multiple Li-Ion/NiMH Battery Charg FhinkPad 72W AC Adapter FhinkPad Ultrabay Plus Carrier FhinkPad Ultrabay Plus Numeric K FhinkPad Port Replicator FhinkPad Port Replicator FhinkPad Dock BM 1GB Microdrive ServicePac 3r IOR 9x5 NBD ServicePac 2yr IOR 9x5 NBD ServicePac 3yr IOR 9x5 NBD ServicePac 4yr IOR 9x5 NBD ServicePac 4yr IOR 9x5 NBD ServicePac 5yr IOR 9x5 NBD ServicePac 5yr P&L P/U Depot	02K6646 er 02K6719 02K6699 22P5737 (eypd 22P7330 02K8667 263120U black) 31P7410 07N5574 30L9188 30L9189 30L9195 69P9194 69P9196 30L9191 30L9192 69P9197	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 24 hour x 7 day¹8 toll-free hardware support during the warranty¹2			

				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	ard / use o ROM / 24) bo / 16X/8 ar bays fo us (right s , 4200 rpn o additiona " (358.1m	ptional Ultraba k-10X ⁹ speed 8X/24X/8X ²¹ s r interchange ide) / Ultrabay n, 9.5mm / up al disks with of m) XGA (102	ay™-bas / bootab peed / be able dev / 2000 le gradable otional F 4x768) 1	sed or Usile / remootable sides / Usile / S.M.A.A.B.D.D. ada	SB-base ovable from / remova Itrabay 2 mpty at s A.R.T. / 1 upter in ea or / Active	d diskette drive om Ultrabay Plus ble from Ultrabay 2000 (left side) ar ship (uses Travel	Plus de Bezel)	Window - Micros Editon • Config ⇒ Disk-to (in hid	soft Wi soft Wi Safe® D-Disk den Se	ndows X Recove ervice Pa	odels P Ho ry artition	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	Approximate with battery Lithium Ion 6	ely 13.0 x and optica 3-cell 10.8	V 4.0Ah / inte	9mm x 2 (3.4kg) lligent / s	272.5mr supports	m x 45.8r		000 dc 4.5A)	IBM R Sofwa System	apid R re Del n Migr	estore™ ivery Ass ation As	sistar	
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		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 Ni Li-Ion/Ni Ni Ni Ni Ni Ni Ni Ni Ni Ni Ni Ni Ni N	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 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 optical	Ultrabay diskette	Mini PCI wireless/modem	CDC ethernet	Preload	Limited warranty	Avail date
2652-AUU	Pentium® 4-M	1.6GHz	256MB	14.1" XGA	30GB8	CD-RW	Diskette	Wi-Fi ³² /modem	10/100	Windows® XP Pro	1 yr	Apr 2002
2653-AUU	Pentium 4-M	1.6GHz	256MB	14.1" XGA	30GB	CD-RW	Diskette	Wi-Fi/modem	10/100	Windows XP Pro	3 vr	Apr 2002

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	High-performance desktop alter Mobile Intel® Pentium® 4 Proc enhanced Intel SpeedStep™ tec 512KB / on die (at processor sp 256MB std / 1GB max² / PC210 two 200-pin SO-DIMM sockets	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	82801CAM ICH3-M I/O Control Low Pin Count (LPC) interface, (Ricoh® R5C552 CardBus contr 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-p	Memory Controller Hub (MCH-M) / er Hub (ATA-100 EIDE, PCI bus, ethernet N USB, Firmware Hub) / PCI bus 2.2 32-bit, 33 oller, Mini PCI, ext expansion) / er I/O for diskette, serial, parallel, infrared)	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 tive 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 2653: ServicePac 2yr 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 Sr	d	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	GHz GHz GHz	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	d operate ale direc	ed exclusive et from IBM o	ly for ed r throug	lucational gh an Auth	ourposes orized Ed	for use by Qu lucation 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			OFTW/		
L2 cache	enhance	ed Inte	el Speed	Step™ techr cessor spee	ology ¹ a	and 400Ml						Pro mo Window		
Memory	128 or 2	56M	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)				Partition)
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	• Acc	ided ess Thii	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 Su	onnectic upport	ons	
Display								Matrix / 16M	-	- Ac	cess He		nder	
) ŚXGA+ (1 4 / FlexView (ve Matrix / ngle and high	density	PC-	Doctor [⊤]	М	ido!	
	ι	using	in plane	switching (IF	PS) tech	nology					ıkPad U Update	Conne	ctor™,15	
Graphics controller Graphics - external	External	l mon	itor supp	ort via analo	g DB-1	5 connecto	or / up to 2	048x1536x16	5.7M colors	 IBM 	loadab Rapid I	le Restore	™ РС	
	at 75Hz/	/ DDC either	C2B / sup of the op	ports extern tional docki	al 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	tal, 3 ci	ustomizab	le) / Thin	Pad Button /	palm rest/	• Clie	nt Secu	rity Soft	ware (se	ecurity
ThinkLight™	Illuminat	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.									Millenn -alone C	
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		∃ub (AT	A-100 EID	E, PCI bu	ıs, ethernet M		CIM ar	nd DMI	d 2.0 su 2.0-com	ipliant	م ا ما ما ان م
	(Ricoh®	R5C5	52 Card	Bus/1394 co	mbo coı	ntroller, Mi	ni PCI, ex	2.2 32-bit, 33 t expansion) /	IVITZ	IBM ImageUltra™ Services available IBM Rapid Restore PC available to				
Docking Station	Optiona	l Thir	ıkPad Do		II (inclu	ıdes Ultrab	ay 2000	and half-size		protect software image and data Setup Guide, Service and Trouble-				
PC Card Std slots Ports								.1 / integrated B-15 monitor		shooting Guide, Windows manual International Warranty Service ¹⁷				
Videe	infrared	(4Mb	ps) / RJ-	11 (modem)	/RJ-45	(ethernet)	/ no keyb	oard or mouse		24 hou	ır x 7 da	ay18 toll-	free har warrant	dware
Video out Mini PCI	One Min	ni PĊI	type III s	slot (Commú	nication	ns Bay) / cu	ustomer u	able ships sta ipgradable					1yr IOF	
11b Wi-Fi ³² /mod		anter	ına built i	n both sides	of displa	ay, Wi-Fi c	ertified / ˈ	set, UltraCon	nect™		NBD		30 r IOR 9	L9188
CDC	Two Cor	56K ²⁹ mmur	V.90 (V. nications	92-designed Daughter C	l ²⁹) mod ard (CD	em combo C) socket:	, Agere® (s / custon	chipset ner accessible)			•		L9189
Ethernet	10/100 e	etherr	net on CI	OC / Intel 825	62ET cl	nipset (phy	sical laye	r) / PXE / Wak	e on LAN®	1		-	30	L9195
Audio support	volume i	up, do	own, mut	e buttons / r	nic inpu	t jack / ou	tput jack	reo speakers / line in jack				•		P9194
Security	Some: II	BM E	mbedde	d Security	Subsys	tem 2.0 ³³	/ hardwai	ord / security k e key storage	/ multi-			,		P9196
Limited warranty ¹²				local file end erv ^{™,19} onsite				curity ¹⁶ /TCG	-compliant	2652:	Service	Pac 2y		/U Depot L9191
-	2653: 3 v	vears	1 vear b	oatterv - Eas	vServ o	nsite picku	p and de	livery courier s	service	2652:	Service	Pac 3y		/U Depot L9192
Service options	coverag	e fror	n date of	ThinkPad p	urchase	e (including	warrant	repair servic period)		2652:	Service	Pac 4y	r P&L P	/U Depot P9195
128 MB PC2100 E 256 MB PC2100 E						Pad A30 Se			02K6878	2652:	Service	Pac 5y	r P&L P	/U Depot P9197
512MB 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	5 NBD
Second HDD Ada 20GB Hard Disk [Örive			08K6068 08K9686	ThinkF	Pad 72W A Pad Ultraba	ay Plus C	arrier	02K6699 22P5737	265 <u>3</u> :	Service	Pac 3yr	30 IOR 9x	L9190 5 NBD
40GB HS Hard Di IBM 256MB USB				08K9816 22P9025		Pad Ultraba Pad Port Re		umeric Keypo	1 22P7330 02K8667	265 <u>3</u> :	Service	Pac 4yr	30 IOR 9x	L9197 5 NBD
IBM USB Portable ThinkPad Remove				05K9276 08K9603	ThinkF	Pad Port R Pad Mini D	eplicator	II	74P6733 287810U	2653:	Service	Pac 5vr	69 IOR 9x	P9198 5 NBD
ThinkPad Multi-Bu	urner Ultra	abay 2	2000 Driv		ThinkF	Pad Dock I	l	Mouse (black)	287710U	_		,	69	P9200 U Depot
DVD/ČD-RW Con	nbo IV Ult	rabay		22P6991	Portab	ile Drive Ba	ay 2000	` '	19K4480	_		Pac opt	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	/service		source/
Bluetooth PC Car	u II from II	DIVI		19K5796	Other	options at i	om.com/	us/pc/access	ories	l wa	amomxe	eu.pat		