	Mini PCI CDC: modem/ Securi	ty Ethernet Workhorse or Avail
Type-model Pro	cessor GHz Memory Screen Disk Optical wireless Bluetooth™ Chip	
	ium®M 1.3 256MB 12.1" XGA 20GB ⁸ None Open; wireless upg ³⁶ Modem	10/100 XP Pro Mar 2003
	iumM 1.3 256MB 12.1"XGA 20GB None ∗Intel 11b Wi-Fi³2 Modem Yes iumM 1.4 256MB 12.1"XGA 40GB None Open; wireless upg Modem Yes	
2672-CBU Pent	ium M 1.4 256MB 12.1" XGA 40GB None	10/100 XP Pro W G Mar 2003
	ium M	
	iumM 1.4 256MB 12.1 XGA 40GB None Open; wireless upg Modem Yes	3
2672-JBU Pent	ium M 1.4 256MB 12.1" XGA 40GB None	Giğabit XP Pro W Mar 2003
	ium 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
F100e5501	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
I Iltrohov™ 2000	removable from optional X3 UltraBase, ThinkPad Dock, or ThinkPad Dock II	Access IBM
Ultrabay™2000 Disk	Supports Ultrabay 2000 devices in optional X3 Ultrabase, ThinkPad Dock, or Dock II 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
	r ATI® Mobility RADEON® / AGP 4X / 16MB DDR-SDRAM	Norton AntiVirus (OEM edition) PC Dector
	al External monitor support via analog DB-15 connector / up to 1280x1024x16.7M at 85Hz	PC-Doctor [™] ThinkPad Utilities
Keyboard	Standard-size ²⁶ keys / 97% size of T Series / 87-key / 18.5mm pitch; 2.5mm stoke /	IBM Update Connector ^{TM,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	with battery: 3.6 lb (1.64 to 1.65kg) Titanium composite in the top cover / magnesium alloy bottom case	Client Security Software (security
Case material Battery - type	Li-lon 6-cell / intelligent / supports opt Extended Life Battery on base (for two batteries);	chip model)
	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	Right bay of X3 UltraBase supports
	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	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) /	Ùltrabay Plus-compatible
Wireless entenns	RJ-45 (ethernet) / parallel / IEEE 1394 (4-pin) / no serial, keyboard, or mouse ports	Ultrabay 2000 accessories:
Wireless antenna Mini PCI	UltraConnect™ antenna built into the display cover for optimal wireless signal reception One Mini PCI type III slot (Communications Bay) / customer upgradeable	CD-RW/DVD Combo IV Ultrabay 2000 22P6991
Wireless upg ³⁶	Some: Wireless upgradable with wireless Mini PCI options	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
Cisco 802.11b	Some: 802.11b wireless ⁴ , Mini PCI, Cisco® Aironet® Wireless 802.11b,	ThinkPad Removable Diskette Drive 08K9603
110/b\M; F:27	Prism 2.0 chipset	Ultrabay 2000 Li-Ion battery 02K6646
11a/b Wi-Fi ²⁷ CDC	Some: 11a/b Wi-Fi ²⁷ wireless⁴, Mini PCI, Atheros™ AR5001X chipset One Communications Daughter Card (CDC) socket / customer accessible	X3 UltraBase bottom contains:
Modem	56K ⁶ V.90 (V.92-designed ²⁵) modem in CDC / Agere® chipset	Bay for X30 battery (same as X31)
Bluetooth™ Ethernet	Some: Bluetooth wireless technology / in CDC (with modem) Some: 10/100 ethernet on systemboard / Intel 82562EZ chipset (physical layer) / PXE	Other features:
	Some: Gigabit ethernet on systemboard / Intel 82540EP chipset (MAC/PHY) / PXE	Second battery support (for Ultrabay battery or second 6-cell battery)
Audio support	Soft audio / ICH AC97 controller / DirectSound® support / AD1981B AC97 codec /	Stereo speakers (1 watt)
	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]	Security keyhole, UltraBase lock Serial and parallel ports
Security	Power-on password / dual hard disk password / supervisor pwrd / security keyhole	PS/2 mouse port
Security chip	Some: 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
Limited warranty ¹²	3 years/1 yr battery - EasyServ ^{TM,19} onsite pickup and delivery / service upgrades ²² avail	One USB port (Ver 2.0 only on X31) Ethernet port and modem port
,		Retractable feet; 1.41 lb; 638g
	DDR-SDRAM CL2.5 SOD 10K0028 IBM ThinkPad X3 UltraBase media slice 46P7912 DDR-SDRAM CL2.5 SOD 10K0030 ThinkPad Port Replicator II 74P6733	
512MB PC2100	DDR-SDRAM CL2.5 SOD 10K0032 ThinkPad Mini Dock 287810U	56 watt AC Adapter
USB PC2700 DE	R-SDRAM CL2.5 SOD 31P9834 ThinkPad Dock II 287710U skette Drive 05K9276 ThinkPad X30 Series Li-Ion Battery (6-cell) 02K7039	
40GB HS Hard D	isk 9.5mm (5400 rpm) 08K9816 ThinkPad X30 Series Extended Life Battery 02K7041	PC 2001-compliant
	isk 9.5mm (5400 rpm) 09N4273 ThinkPad Ultraportable 56W AC Adapter 02K6880	ACPI 1.0b and 2.0-compliant
IBM 256MB USE	2.0 MemoryKey 22P9025 ThinkPad 72W AC/DC Combo Adapter 22P9010 eless CardBus Adapter 31P9101 ServicePac ^{®, 22} 2yr IOR 9x5 NBD 30L9190	CIM and DMI 2.0-compliant IBM Rapid Restore PC available to
IBM 11a/b/g Wire	eless Mini PCI Adapter 31P9701 ServicePac 3yr IÓR 9x5 NBD 30L9197	protect software image and data
		International Warranty Service ¹⁷ 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
	montant warranty information ** Poward by Intal ContrincTM mobile technology	(X31) © IBM Corp. July 2004

Type-model Prod	essor GHz	Memory S	creen Di	sk Optical	Mini PCI wireless	CDC: modem/ Bluetooth™	Security Chip			Workhorse Global mo			
2672-B1U Penti 2672-BAU Penti 2672-C1U Penti 2672-CAU Penti 2672-J6U Penti	um® M 1.3 ium M 1.3 ium M 1.4 ium M 1.4 ium M 1.4 ium M 1.4	256MB 12.1 256MB 12.1 256MB 12.1 256MB 12.1 256MB 12.1 256MB 12.1	1" XGA 200 1" XGA 200 1" XGA 400 1" XGA 400 1" XGA 400 1" XGA 400	GB ⁸ None GB None GB None GB None GB None GB None	Open; wireless up * Intel 11b Wi-Fi Open; wireless up * Intel 11b Wi-Fi Open; wireless up * Intel 11b Wi-Fi	ng ³⁶ Modem Modem ng Modem Modem	Yes Yes Yes Yes	10/100 10/100 10/100 10/100 Gigabit Gigabit	2000 2000 2000 2000 2000 2000	No No No No No	Mar 2003 Mar 2003 Mar 2003 Mar 2003 Mar 2003 Mar 2003		
Positioning Processor L2 cache Memory	Intel® Pent enhanced I 1MB / on d 256MB std	tium [®] M Procentel SpeedStellie (at process) / 2GB max ⁷ /	essor 1.3 or ep™ technolo sor speed) / ' PC2100 26	1.4GHz with ogy¹ and 400 ECC 6MHz DDR-	e; one spindle n MHz frontside bus SDRAM / non-parit one socket / one soc			Profess	s 2000 m oft® Wind sional ²⁰	rWARE ¹⁴ odels dows® 2000)		
Diskette drive Optical drive Ultrabay™ 2000 Disk Display	None stand None stand removable Supports U 20 or 40GE 12.1" (308	dard / use opt dard / optiona from optional lltrabay 2000 38, 4200 rpm, mm) XGA (10	ional Ultraba I USB-based I X3 UltraBa devices in o 9.5mm, ATA)24x768) TF	ay™-based (d optical, or ose, ThinkPa otional X3 U -100 / remov	in opt X3) or USB-b optional Ultrabay 20 d Dock, or ThinkPad Itrabase, ThinkPad I vable and upgradabl tive Matrix / 150 nit:	ased diskette 00-based opt d Dock II Dock, or Dock e / 9.5mm higl	ical	ConfigSafe® Disk-to-Disk Recovery (in hidden protected area) Preloaded Access IBM - Access Connections Adobe Acrobat Reader IBM Rapid Restore™ PC					
Graphics controlle	easy-open r ATI® Mobi lExternal m Standard-s Access IBN soft dome	cover to unlat lity RADEON onitor support size ²⁶ keys / 9 M button / pali TrackPoint ca	tch and open I® / AGP 4X t via analog E 7% size of T m rest / Trac ap / ships wit	with one ha / 16MB DDF / 15 conne / Series / 87 / kPoint®, "Pr h classic do	nd (two latches)	24x16.7M at 8 ; 2.5mm stoke rnet Scroll Ba	e /	 Norton i PC-Doc ThinkPa IBM Upo Download IBM Director 	AntiVirus stor™ ad Utilitie date Cor dable ector Ag	s (OEM edi es nnector™.¹⁵ ent	,		
Dimensions ³ Travel weight ² Case material Battery - type Battery - life ¹⁰ Architecture	with battery Titanium of Li-Ion 6-ce supports U 5.2 to 5.4 h	ll / intelligent / Itrabay batter irs; <i>with std ba</i>	to 1.65kg) the top cove supports or y or optiona attery and o	er / magnesi ot Extended I 6-cell batte otional Exte	9-30.2mm um alloy bottom cas Life Battery on base ry in X3 UltraBase (nded Life Battery: 9 ller Hub (MCH-M) /	e (for two batte for two batteri	eries)	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					
Media slice Docking Station	82801DBM Low Pin Co bus 2.2 32- expansion) serial, para Optional X Optional Ti t Compact I One Type IEEE 1394 Two USB (MICH4-MI/O bunt (LPC) int bit, 33MHz (R /LPC bus 33 Illel]) 3 UltraBase i hinkPad Doc Flash slot / II / CardBus 3 (FireWire) P version 2.0)/	Controller H terface, USB ticoh® R5C55 MHz (PC875 media slice tk or Dock II CF+ Type II 3c2-bit / PCM6 ort (4-pin) external DB	ub (ATA-10) [Bluetooth] 22 CardBus 392 Super I/ (see right si (includes U / supports c CIA 2.1	DEIDE, PCI bus, eth I Intel 82802AC Fir 1394 combo contro Ofor infrared [dock	mware Hub / F iller, Mini PCI, -based diskett If-size PCI slo rive™ RJ-11 (moder	ext te, ot)	Right bay most Ultra • Optiona DVD-Ro • Optiona such as (4200 rp • Ultrabay	Op of X3 U abay 200 Il battery OM, Zip i Il HDD a 80GB F om) 08KS y Plus-co		upports I, CD-RW, ombo 2nd disk 0.5mm		
Wireless antenna Mini PCI Wireless upg ³⁶ 11b Wi-Fi ³² CDC Modem Bluetooth™ Ethernet	UltraConne One Mini P Some: Wir Some: 11b 802 One Comm 56K ⁶ V.90 (None stand Some: 10/ Some: Gig	ect™ antenna 'CI type III slo reless upgradi b Wi-Fi³² wirele .11b, Intel 825 nunications Da V.92-designe dard (optional 100 ethernet of abit ethernet of	built into the t (Communicable with wire ess4, Mini PC 531 chipset aughter Carded ²⁹) modem PC Card avaon systemboon systembo	display cove cations Bay eless Mini PCI, Intel PRO II (CDC) sock in CDC / Ag uilable) ard / Intel 82 ard / Intel 82	er for optimal wireles / customer upgrade Cl options /Wireless 2100 Netw ket / customer acces	s signal recepi eable vork Connectionsible sible sical layer) / P. C/PHY) / PXE	on XE	 CD-RW 2000 Second 2000 ThinkPa Ultraba X3 UltraB Bay for Other feat 	I/DVD C I HDD A ad Remo y 2000 L ase bott X30 batt tures:	ombo IV U dptr for Ult ovable Disi i-Ion batte om contair tery (same	ltrabay 22P6991 rabay 08K6068 kette Drive 08K9603 ry02K6646 ns: as X31)		
Security Security chip	mono spea microphon Power-on p Some: IBN authentica	ker / 0.5 watt e input jack (p password / du I Embedded tion / local file	/ volume up bink) / headp ual hard disk Security Su encryption	, down, mute hone jack (c password / lbsystem 2 enhances \	b buttons / internal n green) / mic in (blue) supervisor pwrd / so 033 / hardware key s /PN security 16 / TCO and delivery / servi	nic /) [all 3.5mm] ecurity keyhol storage / multi G-compliant	e -factor	Stereo sSecuritySerial aPS/2 mAnalog	or secon speakers / keyhole nd paral ouse por DB-15 m	nd 6-cell bass (1 watt) e, UltraBass lel ports t nonitor port	se lock		
128MB PC2100 E 256MB PC2100 E 512MB PC2100 E 1GB PC2700 DD IBM USB Portabl IBM USB 2.0 Por 20GB Hard Disk I 40GB HS Hard D 80GB Hard Disk I IBM 64MB USB 2 IBM 256MB USB ThinkPad Monitor IBM 11a/b/g Wire IBM 11a/b/g Wire	DDR-SDRAN DDR-SDRAM C e Diskette D table CD-RV Drive 9.5 mr isk 9.5 mr C.0 Memory I 2.0 Memory r Stand 2001 less CardBu less CardBu less Mini PC	M CL2.5 SOD M CL2.5 SOD CL2.5 SOD rive V Drive n (4200 rpm) 5400 rpm) n (4200 rpm) Key Key Is Adapter	10K0030 10K0032 31P9834 05K9276 22P5297 08K9686 08K9816 08K9869 22P9024 22P9025 22P5265 31P9101 31P9701	ThinkPad P ThinkPad M ThinkPad X ThinkPad X ThinkPad X ThinkPad U ThinkPad T ServicePac ServicePac ServicePac ServicePac ServicePac ServicePac	ock II 30 Series Li-Ion Batt 30 Series Extended Iultiple Battery Char, Itraportable 56W AC 2W AC/DC Combo A 22 2yr IOR 9x5 NB 3yr IOR 9x5 NBD 5yr IOR 9x5 NBD 4yr P&L P/U Depot	74l 28' 28' 29' (6-cell) 02l Life Battery 02l ger II 22l Adapter 02l Adapter 22l D 30l 69l 69l	K7041 P9040 K6880 P9010 L9190 L9197 P9198 P9200 P9199	Etherne Retracta S6 watt A Asset ID ^T chip ac PC 2001- ACPI 1.0i CIM and I IBM Rapi protect Internation	C Adapt M.34 (syst cessed complia o and 2.0 DMI 2.0- Software	em-specif over netwont O-compliar compliant re PC avai e image ar ranty Serv	oort 38g ic info in ork) at lable to nd data ice ¹⁷		
Intel PRO/Wireles Cisco Aironet Wir	eless 802.1		31P8601 31P8301	Other optio	5yr P&L P/U Depot ns at ibm.com /pc/u oy Intel Centrino™ m	s/accessories	;	suppor	t during	toll-free ha			

See footnotes for important warranty information US models announced March 12, 2003

Powered by Intel Centrino[™] mobile technology

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Type-model Proce		lem/ Sec Ethernet WH (W) Gbl (G) Avai h™ chip planar Preload Entry (E) date
2672-3UU Pentiui 2672-58U Pentiui 2672-5KU Pentiui 2672-7KU Pentiui 2672-4UU Pentiui 2672-5UU Pentiui	m® M 1.5 256MB 12.1" XGA 30GB³ None Optional Mode Open; wireles upg³³6 Mode Mode m M 1.5 256MB 12.1" XGA 30GB None Optional Optional *Intel 11b Wi-Fi³²² Mode m M 1.5 256MB 12.1" XGA 30GB None Optional Optional Optional IBM 11b/g³² Mode m M 1.7 256MB 12.1" XGA 40GB None Optional None Optional *Intel 11b Wi-Fi Mode m M 1.7 512MB 12.1" XGA 40GB None Optional None Optional *Intel 11b Wi-Fi Mode m M 1.7 512MB 12.1" XGA 40GB None Optional Optional IBM 11b/g Mode m M 1.7 256MB 12.1" XGA 40GB None Optional Optional IBM 11b/g Mode m M 1.7 256MB 12.1" XGA 40GB None Optional Optional IBM 11b/g Mode m M 1.7 256MB 12.1" XGA 40GB None Optional Optional IBM 11b/g Mode	m Yes 10/100 XP Pro Entry Feb 04 n Yes 10/100 XP Pro Entry Feb 04 n Yes Gigabit XP Pro W G n Yes Gigabit XP Pro W G n Yes Gigabit XP Pro W n Yes Gigabit XP Pro W Feb 04 n Yes Gigabit XP Pro W Feb 04 n Yes Gigabit XP Pro W
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 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 85H	ThinkPad Utilities IBM Update Connector™.15 z
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
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 security chip)
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 ca 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	License (CD not included) - Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client
Architecture Media slice Compact Flash slot 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® 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	DVD-ROM, Zip 250MB, Combo Optional HDD adapter for 2nd disk Ultrabay Plus-compatible Ultrabay 2000 accessories: CD-RW/DVD Combo IV Ultrabay 2000 22P699
Wireless antenna Mini PCI Wireless upg ³⁶ 11b Wi-Fi ³² IBM 11b/g ³² 11a/b/g 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 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 56K⁶ V.90 (V.92-designed²⁵) modem in CDC / Agere® chipset	ThinkPad Removable Diskette Drive 08K9603 Ultrabay 2000 Li-lon battery02K6644 Enhanced Drive Adapter for Ultrabay 2000 73P3268 X3 UltraBase bottom contains: Bay for X30 battery (same as X31)
Bluetooth™ Ethernet	None Some: 10/100 ethernet on systemboard / Intel 82562EZ chipset (physical layer) / PXE	Other features: • Second battery support (for Ultrabay)
Audio support	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]	battery or second 6-cell battery) • Stereo speakers (1 watt) • Security keyhole, UltraBase lock • Serial and parallel ports
Security Security chip Limited warranty ¹²	Power-on password / dual hard disk password / supervisor password / security keyh IBM Embedded Security Subsystem 2.0 ³³ / Atmel® chip / TCG-compliant 3 years/1 yr battery - EasyServ ^{TM.19} onsite pickup and delivery / service upgrades ²² av	PS/2 mouse port Analog DB-15 monitor port
128 MB PC2700 I 256 MB PC2700 I 512 MB PC2700 I 1GB PC2700 DD IBM USB 2.0 Port IBM USB Fingerp 60GB HS Hard D 80GB HS Hard D IBM 11a/b/g Wire IBM 11a/b/g Wire Intel PRO/Wireles	DDR-SDRAM CL2.5 SOD 31P9828 DDR-SDRAM CL2.5 SOD 31P9830 ThinkPad X3 UltraBase media slice 46P75 DDR-SDRAM CL2.5 SOD 31P9832 ThinkPad Port Replicator II 74P67 74	• Ethernet port and modem port • Retractable feet; 1.41 lb; 638g 33 OU 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 BENERGY STAR®-compliant International Warranty Service ¹⁷

		Mini DCI CDC: madem/ Securi	itu Ethaumat Limitad Avail			
Type-model Pro	essor GHz Memory Screen Disk Optical	Mini PCI CDC: modem/ Securi wireless Bluetooth™ Chip				
		en; wireless upg ³⁶ Modem Yes Il 11b Wi-Fi ³² Modem Yes				
2884-CRU Pent	um M 1.4 256MB 12.1" XGA 40GB None *Inte	l 11b Wi-Fi Modem Yes	10/100 XP Pro 1 year May 2003			
	um M	/b Wi-Fi ²⁷ Mod/Blue Yes	,			
	2884 has a 1 year limited warranty	or the IBM oo Timik Express 1 Tog	, and			
Positioning Processor	Ultimate mobility in a versatile ultraportable; one spino Intel® Pentium® M Processor 1.3 or 1.4GHz with	lle	SOFTWARE ¹⁴			
L2 cache	enhanced Intel SpeedStep™ technology¹ and 400MHz¹ 1MB / on die (at processor speed) / ECC	frontside bus	Windows XP Professional - Microsoft® Windows® XP			
Memory	256MB std / 2GB max ⁷ / PC2100 266MHz DDR1 (DDI two 200-pin SO-DIMM sockets / std memory in one so		Professional ²⁰ • ConfigSafe®			
Diskette drive	None standard / use optional Ultrabay™-based (in opt		♦ Disk-to-Disk Recovery (in hidden protected area)			
Optical drive	None standard / optional USB-based optical, or option removable from optional X3 UltraBase, ThinkPad Doc		Preloaded			
Ultrabay™2000 Disk	Supports Ultrabay 2000 devices in optional X3 Ultraba 20 or 40GB ⁸ , 4200 rpm, 9.5mm, ATA-100 / removable		Access IBM Access Connections			
Display	12.1" (308mm) XGA (1024x768) TFT color / Active Measy-open cover to unlatch and open with one hand (tw		Adobe Reader IBM Rapid Restore™ PC Norten AntiVirus (OFM adition)			
	ATI® Mobility RADEON® / AGP 4X / 16MB DDR1 (DI External monitor support via analog DB-15 connector /		Norton AntiVirus (OEM edition) PC-Doctor™ ThinkPad Utilities			
Keyboard	Standard-size ²⁶ keys / 97% size of T Series / 87-key /	18.5mm pitch; 2.5mm stoke /	IBM Update Connector ^{TM,15}			
	Access IBM button / palm rest / TrackPoint®, "Press-to soft dome TrackPoint cap / ships with classic dome ar		Downloadable • IBM Director Agent			
ThinkLight™	Illuminates the keyboard to improve visibility in low-light		Software Delivery Assistant			
Dimensions ³ Travel weight ²	10.7" x 8.8" x .98"-1.19"; 273mm x 223mm x 24.9-30.2 with battery: 3.6 lb (1.64kg)	2mm	System Migration Assistant Client Security Software (for			
Case material Battery - type	Titanium composite in the top cover / magnesium all Li-lon 6-cell / intelligent / supports opt Extended Life B		security chip)			
	supports Ultrabay battery or optional 6-cell battery in 3	X3 UltraBase (for two batteries)	License (CD not included) - Lotus® SmartSuite® Millennium and			
Battery - life ¹⁰ Architecture	Up to 5.5 hrs; with std battery and optional Extended I Intel 855PM chipset / 82855PM Memory Controller Hu	<u> </u>	Lotus Notes® Stand-alone Client			
Thorntootaro	82801DBM ICH4-M I/O Controller Hub (ATA-100 EIDI	E, PCI bus, ethernet MAC,	IBM ThinkPad X3 UltraBase™			
	Low Pin Count (LPC) interface, USB [Bluetooth]) / Intebus 2.2 32-bit, 33MHz (Ricoh® R5C522 CardBus/1394		Option			
	ext expansion) / LPC bus 33MHz (PC87392 Super I/O serial, parallel])	for infrared [dock-based diskette,	Right bay of X3 UltraBase supports most Ultrabay 2000 options:			
Media slice	Optional X3 UltraBase media slice (see right side)		 Optional battery, CD-ROM, CD-RW, 			
Docking Station Compact Flash slo	Optional ThinkPad Dock or Dock II (includes Ultraba Compact Flash slot / 1 CF+ Type II / supports option		DVD-ROM, Zip 250MB, ComboOptional HDD adapter; for 2nd disk			
PC Card Std slot IEEE 1394	One Type II / CardBus 32-bit / PCMCIA 2.1 IEEE 1394 (FireWire) Port (4-pin)		such as 80GB HS Hard Disk 9.5mm (5400 rpm) 09N4273			
Ports	Two USB (version 2.0) / external DB-15 monitor / infra RJ-45 (ethernet) / parallel / IEEE 1394 (4-pin) / no seri		Ultrabay Plus-compatible			
Wireless antenna	UltraConnect™ antenna built into the display cover for c	<u> </u>	 Ultrabay 2000 accessories: CD-RW/DVD Combo IV Ultrabay 			
Mini PCI Wireless upg ³⁶	One Mini PCI type III slot (Communications Bay) / cus Some: Wireless upgradable with wireless Mini PCI opti		2000 22P6991			
11b Wi-Fi ³²	Some: 11b Wi-Fi ³² wireless ⁴ , Mini PCI, Intel PRO/Wirel	less 2100 Network Connection	Second HDD Adptr for Ultrabay 2000 08K6068			
11a/b Wi-Fi ²⁷	802.11b, Intel 82531 chipset Some: 11a/b Wi-Fi ²⁷ wireless⁴, Mini PCI, Atheros™ AR	35001X chipset	ThinkPad Removable Diskette Drive 08K9603			
CDC Modem	One Communications Daughter Card (CDC) socket / ci 56K ⁶ V.90 (V.92-designed ²⁹) modem in CDC / Agere® c		Ultrabay 2000 Li-Ion battery 02K6646			
Bluetooth™	Some: Bluetooth wireless technology / in CDC (with mo	odem)	X3 UltraBase bottom contains: • Bay for X30 battery (same as X31)			
Ethernet Audio support	10/100 ethernet on systemboard / Intel 82562EZ chipse Soft audio / ICH AC97 controller / DirectSound® suppo	ort"/ AD1981B AC97 codec /	Other features:			
	mono speaker / 0.5 watt / volume up, down, mute butto microphone input jack (pink) / headphone jack (green)		Second battery support (for Ultrabay battery or second 6-cell battery)			
Security	Power-on password / dual hard disk password / super	rvisor pwrd / security keyhole	Stereo speakers (1 watt)			
Security chip	IBM Embedded Security Subsystem 2.0 33 / hardwar authentication / local file encryption / enhances VPN s	ecurity ¹⁶ / TCG-compliant	Security keyhole, UltraBase lock Serial and parallel ports			
Limited warranty ¹²	1 year - EasyServ ^{TM,19} onsite pickup and delivery / serv		PS/2 mouse port Analog DB-15 monitor port			
	DR-SDRAM CL2.5 SOD 10K0028 IBM ThinkPad X3 DR-SDRAM CL2.5 SOD 10K0030 ThinkPad Port Re	B UltraBase media slice 46P7912 eplicator II 74P6733	One USB port (Ver 2.0 only on X31)			
512MB PC2100	DR-SDRAM CL2.5 SOD 10K0032 ThinkPad Mini Do	ck 287810U	Ethernet port and modem portRetractable feet; 1.41 lb; 638g			
1GB PC2700 DE IBM USB Portab	R-SDRAM CL2.5 SOD 31P9834 ThinkPad Dock II Diskette Drive 05K9276 ThinkPad X30 Se	287710U eries Li-Ion Battery (6-cell) 02K7039	56 watt AC Adapter			
IBM Powered US	B 2.0 Port Combo Drive 22P9194 ThinkPad X30 Se	ries Extended Life Battery 02K7041 e Battery Charger II 22P9040	Asset ID™,34 (system-specific info in chip accessed over network)			
40GB HS Hard D	sk 9.5mm (5400 rpm) 08K9816 ThinkPad Ultrapo	ortable 56W AC Adapter 02K6880	PC 2001-compliant			
IBM USB 2.0 Me	nory Key 256MB 22P9228 ServicePac ^{®, 22} 1	C/DC Combo Adapter 22P9010 yr IOR 9x5 NBD 30L9188	ACPI 1.0b and 2.0-compliant CIM and DMI 2.0-compliant			
IBM USB 2.0 Me	nory Key 512MB 22P9230 ServicePac 2yr II ess CardBus Adapter 31P9101 ServicePac 3yr II	OR 9x5 NBD 30L9189	IBM Rapid Restore PC available to protect software image and data			
IBM 11a/b/g Wire	ess Mini PCI Adapter 31P9701 ServicePac 2yr F	P&L P/U Depot 30L9191	International Warranty Service ¹⁷			
SonyEricsson® C	s 2200BG Mini PCI 73P2801 ServicePac 3yr F C83 EDGE PC Card 26K3393 ServicePac 5yr F	P&L P/U Depot 30L9192 P&L P/U Depot 69P9197	24 hour x 7 day ¹⁸ toll-free warranty support during the warranty ¹² via			
IBM M400 Project		bm.com/pc/us/accessories	800-IBM-SERV (426-7378)			

		Optical in	ThinkPad	Mini PCI CDC	: modem/Security Ethernet _ Avail
	cessor GHz Memory Scr		X3 UltraBase™		tetooth™ chip planar Preload date
		XGA 20GB [®] DVD XGA 20GB DVD	X3 UltraBase *	Open; wireless upg ³⁶ Intel 11b Wi-Fi ³²	Modem Yes 10/100 XP Pro Jun 2003 Modem Yes 10/100 XP Pro Jun 2003
2884-CWU Pent	ium M 1.4 256MB 12.1"				Modem Yes 10/100 XP Pro Jun 2003
	ium M 1.4 256MB 12.1" ese small and medium busi				Mod/Blue Yes Gigabit XP Pro Jun 2003
	e 2884 has a 1 year limited v	• •	re part or the ibi	ii 03 Tilliik Express F	rogram
Positioning Processor	Ultimate mobility in a vers				SOFTWARE ¹⁴
L2 cache	enhanced Intel SpeedStep		0MHz system bu	IS	Windows XP Professional - Microsoft® Windows® XP
Memory	1MB / on die (at processo 256MB std / 2GB max ⁷ / F	C2100 266MHz DDF			/ Professional ²⁰
Distratta divira	two 200-pin SO-DIMM so				ConfigSafe® ⇔Disk-to-Disk Recovery
Diskette drive DVD	None standard / use optio Some: DVD-ROM / 8X-3.				(in hidden protected area)
Combo	Some: DVD-ROM/CD-RV	V / 16X/10X/24X/8X ²¹	speed / removal	ble from Últrabay 200	
Ultrabay™2000 Disk	Supports Ultrabay 2000 de 20 or 40GB ⁸ , 4200 rpm, 9.				
Display	12.1" (308mm) XGA (102 easy-open cover to unlate	4x768) TFT color / A	ctive Matrix / 15	0 nits /	 Adobe Reader IBM Rapid Restore™ PC
	r ATI® Mobility RADEON®	/ AGP 4X / 16MB DD	R1 (DDR-SDRA	M)	Norton AntiVirus (OEM edition) PC-Doctor™
	Standard-size ²⁶ keys / 97				ThinkPad Utilities
Keyboard	Standard-size ²⁶ keys / 97° Access IBM button / palm	rest / TrackPoint®, "F	ress-to-Select,"	Internet Scroll Bar13 /	
ThinkLight™	soft dome TrackPoint cap Illuminates the keyboard t	/ ships with classic d	ome and soft rim	TrackPoint cap	RecordNow and DLA (combo mods)
Dimensions ³	without X3 UltraBase: 10.				Downloadable IBM Director Agent
	with X3 UltraBase and op	tical: 10.8" x 8.9" x 2.0)-2.3"; 273 x 227	x 51-58mm	 Software Delivery Assistant
Travel weight ² Case material	with battery: 3.6 lb (1.65kg				System Migration Assistant Client Security Software (for
Battery - type	Li-Ion 6-cell / intelligent / s				
Battery - life ¹⁰	supports Ultrabay battery Up to 6 hrs; with std batte				License (CD not included) Lotus® SmartSuite® Millennium and
Architecture	Intel 855PM chipset / 828				Lotus Notes® Stand-alone Client
	82801DBM ICH4-M I/O C Low Pin Count (LPC) inte				IBM ThinkPad X3 UltraBase™
	bus 2.2 32-bit, 33MHz (Ric	oh® R5C522 CardBus	s/1394 combo co	ontroller, Mini PCI,	(standard with B5U/BSU/CWU/JGU)
	ext expansion) / LPC bus 3 serial, parallel])	33MHZ (PC87392 Sup	per I/O for infrare	ea [dock-based disket	te, Right bay of X3 UltraBase supports most Ultrabay 2000 options:
Media slice	X3 UltraBase media slic		Utura h a 0000 a	d balf sina DOI alat)	 Optional battery, CD-ROM, CD-RW,
Docking Station Compact Flash slo	Optional ThinkPad Dock t Compact Flash slot / 1 C				DVD-ROM, Zip 250MB, Combo • Optional HDD adapter; for 2nd disk
PC Card Std slot	One Type II / CardBus 32	-bit / PCMCIA 2.1 / int			such as 80GB HS Hard Disk 9.5mm
IEEE 1394 Ports	Two USB (version 2.0) / e		r / infrared (4Mb	ps) / RJ-11 (modem) /	(5400 rpm) 09N4273 • Ultrabay Plus-compatible
	RJ-45 (ethernet) / parallel				Ultrabay 2000 accessories:
Wireless antenna	UltraConnect™ antenna bu	uilt into the display cov	er for optimal wir	eless signal reception	 CD-RW/DVD Combo IV Ultrabay
Mini PCI Wireless upg ³⁶	One Mini PCI type III slot (Some: Wireless upgradat	ole with wireless Mini F	?Cl options	gradeable	2000 22P6991 • Second HDD Adptr for Ultrabay
11b Wi-Fi ³²	Some: 11b Wi-Fi ³² wireles	s ⁴ , Mini PCI, Intel PRO		Network Connection	2000 08K6068
11a/b Wi-Fi ²⁷	802.11b, Intel 8253 Some: 11a/b Wi-Fi ²⁷ wire		s™ AR5001X ch	ipset	ThinkPad Removable Diskette Drive 08K9603
CDC	One Communications Dat	ighter Card (CDC) soc	ket / customer a		Ultrabay 2000 Li-Ion battery 02K6646
Modem Bluetooth™	56K ⁶ V.90 (V.92-designed Some: Bluetooth wireless	technology / in CDC / A(yere® cnipset with modem)		X3 UltraBase bottom contains:
Ethernet	Some: 10/100 ethernet on	systemboard / Intel 8	2562EZ chipset		Bay for X30 battery (same as X31)
Audio support	Some: Gigabit ethernet or Soft audio / ICH AC97 cor	ntroller / DirectSound®	2540EP cnipset support / AD19	81B AC97 codec /	Other features: • Second battery support (for Ultrabay
	mono speaker / 0.5 watt /	volume up, down, mu	te buttons / interi	nal mic /	battery or second 6-cell battery)
Security	microphone input jack (pir Power-on password / dua	ik) / neadphone jack (I hard disk password	(green) / mic in (i / supervisor pas	olue) [all 3.5mm] sword / security keyho	Stereo speakers (1 watt) Sequestra kowholo Littre Roccionale Litre Roccionale Sequestra kowholo Litre Roccionale Sequestra kowhol
Security chip	IBM Embedded Security	Subsystem 2.0 33 / ha	ardware key stor	age / multi-factor	Serial and parallel ports
Limited warranty12	authentication / local file e			<u> </u>	PS/2 mouse port Analog DB-15 monitor port
	-	· · · ·	Pad X3 UltraBas		One USB port (Ver 2.0 only on X31)
	DDR-SDRAM CL2.5 SOD		Port Replicator II	74P67	33 • Betractable feet: 1 41 lb: 638g
	DDR-SDRAM CL2.5 SOD	10K0032 ThinkPad 31P9834 ThinkPad		28781 28771	00
IBM USB Portabl	R-SDRAM CL2.5 SOD e Diskette Drive	05K9276 ThinkPad		Battery (6-cell) 02K70	
	B 2.0 Port Combo Drive	22P9194 ThinkPad 2	K30 Series Exten	ded Lifé Battery02K70	41 chip accessed over network)
	isk 9.5mm (5400 rpm) isk 9.5mm (5400 rpm)	09N4273 ServicePa	Multiple Battery (.c ^{®, 22} 1yr IOR 9x	5 NBD 30L91	
IBM 11a/b/g Wire	less CardBus Adapter	31P9101 ServicePa	c 2yr IÓR 9x5 N	BD 30L91	89 CIM and DMI 2.0-compliant
	eless Mini PCI Adapter ss 2200BG Mini PCI		c 3yr IOR 9x5 N c 2yr P&L P/U D		
SonyEricsson® G	C83 EDGE PC Card	26K3393 ServicePa	c 3ýr P&L P/U D	epot 30L91	92 International Warranty Service ¹⁷
ThinkPad 72W A	C/DC Combo Adapter		c 5yr P&L P/U D ons at ibm.com /	Pepot 69P91 pc/us/accessories	97 24 hour x 7 day ¹⁸ toll-free warranty support during the warranty ¹²
IDIVITVITOOT TOJEC		Caron option			Support during the wallanty

	Optical in ThinkPad Mini PCI CDC: m	adam/Sagurity Ethornat Avail			
	ocessor GHz Memory Screen Disk UltraBase X3 UltraBase™ wireless Blueto				
2884-2NU Per 2884-2WU Per 2884-NRU Per • Th	ntium M 1.4 256MB 12.1" XGA 20GB Combo X3 UltraBase * Intel 11b Wi-Fi32 Ombo	odem Yes 10/100 XP Pro Oct 2003 odem Yes 10/100 XP Pro Oct 2003 odem Yes Gigabit XP Pro Oct 2003			
Positioning	Ultimate mobility in a versatile ultraportable; one spindle	SOFTWARE ¹⁴			
Processor L2 cache Memory	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	Windows XP Pro models - Microsoft® Windows® XP Professional²⁰ ⇒ Disk-to-Disk Recovery (in hidden protected area)			
Diskette drive DVD Combo Ultrabay™2000 Disk Display	None standard / use optional Ultrabay™-based (inX3) or USB-based diskette drive Some: DVD-ROM / 8X-3.3X³ speed / bootable / removable from Ultrabay 2000 of X3 Some: DVD-ROM/CD-RW / 16X/10X/24X/8X²¹ speed / removable from Ultrabay 2000 Supports Ultrabay 2000 devices in std or opt X3 UltraBase (or opt ThinkPad Dock II) 20 or 40GB³, 4200 rpm, 9.5mm, ATA-100 / removable and upgradable / 9.5mm high bay 12.1" (308mm) XGA (1024x768) TFT color / Active Matrix / 150 nits /	Preloaded			
Display	easy-open cover to unlatch and open with one hand (two latches)	PC-Doctor™ ThinkPad Utilities			
	er ATI® Mobility RADEON® / AGP 4X / 16MB DDR-SDRAM nal External monitor support via analog DB-15 connector / up to 1280x1024x16.7M at 85Hz Standard-size²6 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 Bar¹³ / 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 ^{TM,15} InterVideo WinDVD (combo, DVD) RecordNow and DLA (combo model) Downloadable IBM Director Agent			
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-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) 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	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])	IBM ThinkPad X3 UltraBase™ (standard with 25U/2WU) Right bay of X3 UltraBase supports most Ultrabay 2000 options: Ontional battory CD BOM CD BW			
Media slice Docking Station Compact Flash sl PC Card Std slot IEEE 1394 Ports	Some: X3 UltraBase media slice (see right side) Optional ThinkPad Dock or Dock II (includes Ultrabay 2000 and half-size PCI slot) lot 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) /	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			
Wireless antenna Mini PCI Wireless upg ³⁶ 11b Wi-Fi ³²	One Mini PCI type III slot (Communications Bay) / customer upgradeable	Ultrabay 2000 accessories: CD-RW/DVD Combo IV Ultrabay 2000 Second HDD Adptr for Ultrabay 2000 MK606: ThinkPad Removable Diskette Drive 08K960:			
Modem Bluetooth™ Ethernet	None Some: 10/100 ethernet on systemboard / Intel 82562EZ chipset (physical layer) / PXE	Ultrabay 2000 Li-Ion battery02K664 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 / 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]	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			
Limited warranty	12 1 year - EasyServ™.19 onsite pickup and delivery / service upgrades²² avail	 Analog DB-15 monitor port One USB port (Ver 2.0 only on X31) 			
256 MB PC2700 512 MB PC2700 D 1GB PC2700 D IBM USB Porta IBM USB 2.0 Pc 30GB Hard Disl 40GB HS Hard 80GB Hard Disl IBM 11a/b/g Wi IBM 11a/b/g Wi Intel PRO/Wire Cisco Aironet W	0 DDR-SDRAM CL2.5 SOD 31P9828 IBM ThinkPad X3 UltraBase media slice 46P7912 0 DDR-SDRAM CL2.5 SOD 31P9830 74P6733 0 DDR-SDRAM CL2.5 SOD 31P9834 74P6733 0 DDR-SDRAM CL2.5 SOD 31P9834 74P6733 0 DDR-SDRAM CL2.5 SOD 31P9834 74P6733 0 DDR-SDRAM CL2.5 SOD 31P9830 74P6733 0 DDR-SDRAM CL2.5 SOD 31P98301 74P6733 1 DR STAM CL2.5 SOD 31P8801 74P6733 1 DR STAM CL2.5 SOD 31P8401 74P6733 2 DR STAM CL2.5 SOD 31P8401 74P6733 2 DR STAM CL2.5 SOD 31P8401 74P6733 2 DR STAM CL2.5 SOD 31P8401 74P6732 2 DR STAM CL2.5 SOD	Ethernet port and modem port Retractable feet; 1.41 lb; 638g 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 hardware support during the warranty ¹²			

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 11a	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 dz DDR1 (memory c 0-pin SO-DIMM soci		ts	SOFTWARE ¹⁴ Windows XP Professional - Microsoft® Windows® XP Professional ²⁰ 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 Ult UltraBase (or option m, ATA-100 / remova ctive Matrix / 150 nit	rabay 2000 al ThinkPad able and upgr	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 1280x10 7-key / 18.5mm pitch ress-to-Select," Inte	n; 2.5mm sto ernet Scroll B	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 t and optical: 5.6 lb (2 op cover / magnesiu	4.9-30.2mm 51-58mm .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 UltraBase ended Life Battery: u oller Hub (MCH-M) / 00 EIDE, PCI bus, et	(for two batte p to 10.1 hrs hernet 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 co per I/O for infrared [d Ultrabay 2000 and ha optional IBM Microc egrated door	ontroller, Min lock-based d alf-size PCI s Irive™	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 wireles r) / customer upgrad D/Wireless 2100 Net	or mouse poss signal rece eable work 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 acces gere® chipset P chipset (MAC/PHY P support / AD1981E	ssible () / PXE 3 AC97 code	c/	 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) [all 3.5mm] rd / security · / 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 DR-SDRAM CL2.5 SOD le Diskette Drive	31P9828 IBM Think 31P9830 ThinkPad 31P9832 ThinkPad 31P9834 ThinkPad 05K9276 ThinkPad	Pad X3 UltraBase m Port Replicator II Mini Dock Dock II X30 Series Li-Ion Bat	edia slice 4 7 2 2 2 2 2ttery (6-cell) 0	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 USB 2.0 Me IBM 11a/b/g Wire IBM 11a/b/g Wire Intel PRO/Wirele	SB 2.0 Port Combo Drive table 40GB Hard Disk 9.5mm (4200 rpm) Disk 9.5mm (5400 rpm) Disk 9.5mm (5400 rpm) Mory Key 256MB Mory Key 512MB Eless CardBus Adapter Eless Mini PCI Adapter Eless 2200BG Mini PCI GC83 EDGE PC Card	22P7196 ThinkPad 09N4268 ThinkPad 09K4273 IBM Trave 22P9228 ServicePa 31P9101 ServicePa 31P9701 ServicePa 73P2801 ServicePa 26K3393 ServicePa	K30 Series Extended Multiple Battery Chai Ultraportable 56W A4 72W AC/DC Combo I USB Keyboard with co.22 2yr IOR 9x5 NBD co 3yr IOR 9x5 NBD co 5yr P&L P/U Depocns at ibm.com/pc/u	rger II 2 C Adapter 0 Adapter 2 I UltraNav 3 BD 3 6 t 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
2885-4LU Penti	ium®M 1.7 256MB 12.1' iumM 1.7 512MB 12.1'					Mode	
	ese small and medium bus e 2885 has a 3 year limited		models ar	e part of the IBM U	S Think Expr	ess Prog	ıram
Positioning Processor	Ultimate mobility in a vers	ssor 1.7GHz	with	•			SOFTWARE ¹⁴ Windows XP Professional
L2 cache Memory	enhanced Intel SpeedSte 1MB / on die (at process 256 or 512MB std / 2GB i speed to 266MHz) / non- std memory in one socke	or speed) / E0 max ⁷ / PC270 parity / CL2.5	ĆC)0 333MH 5 / two 200	z DDR1 (memory of D-pin SO-DIMM soc		its	- Microsoft® Windows® XP Professional ²⁰ \$\times Disk-to-Disk Recovery (in hidden protected area)
Diskette drive Combo	None standard / use option DVD-ROM/CD-RW / 16X X3 UltraBase	onal Ultrabay /10X/24X/8X	™-based (²¹ speed /	inX3) or USB-base removable from U	ed diskette dr Itrabay 2000	rive in	Preloaded • Access IBM • Access Connections
Ultrabay™ 2000 Disk	Supports Ultrabay 2000 d 40GB ⁸ (HS 5400 rpm), 9.5	mm, ATA-100) / remova	ble and upgradable	e / 9.5mm high		Adobe Reader IBM Rapid Restore™ Ultra Norton AntiVirus (OEM edition)
Display Graphics controlle	12.1" (308mm) XGA (102 easy-open cover to unlate r ATI® Mobility RADEON®	h and open w	vith one ha	and (two latches)			PC-Doctor™ ThinkPad Utilities
	al External monitor support of Standard-size Reys / 97	/ia analog DB	3-15 conne	ector / up to 1280x1	024x16.7M a		■ IBM Update Connector™,15 ■ InterVideo WinDVD ■ RecordNow and DLA
ThinkLight™	Access IBM button / palm soft dome TrackPoint cap Illuminates the keyboard	n rest / Trackf o / ships with	Point®, "Pı classic do	resś-to-Select," Int ome and soft rim Ti	ernet Scroll E ackPoint cap	3ar ¹³ /	Downloadable • IBM Director Agent
Dimensions ³	without X3 UltraBase: 10 with X3 UltraBase and op	.7" x 8.8" x .9 otical: 10.8" x	8-1.19"; 2 (8.9" x 2.0	73mm x 223mm x)-2.3"; 273 x 227 x	24.9-30.2mm 51-58mm	ı	Software Delivery AssistantSystem Migration AssistantClient Security Software (for
Travel weight ² Case material Battery - type	with battery: 3.6 lb (1.65k Color: black; All: titaniu Li-lon 6-cell / intelligent / supports battery	m composit supports opt or optional 6	e in the to Extended cell batte	p cover / magnesi Life Battery on ba ery in X3 UltraBase	um alloy botto se (for two ba e (for two batto	itteries) eries)	security chip) License (CD not included) - Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client
Battery - life ¹⁰ Architecture	Up to 5.5 hrs; with std ba Intel 855PM chipset / 828 82801DBM ICH4-M I/O C	355PM Memo	ory Contro	ller Hub (MCH-M)	/		IBM ThinkPad X3 UltraBase™
	Low Pin Count (LPC) inte PCI bus 2.2 32-bit, 33MHz ext expansion) / LPC bus	rface, USB [E : (Ricoh® R50	Bluetooth] 0522 Card) / Intel 82802AC F Bus/1394 combo	Firmware Hub controller, Mir	i PCI,	(standard with 4LU/4WU) Right bay of X3 UltraBase supports most Ultrabay 2000 options:
PC Card Std slot IEEE 1394	serial, parallel]) X3 UltraBase media slic Optional ThinkPad Dock t Compact Flash slot / 1 (One Type II / CardBus 32 IEEE 1394 (FireWire) po	t or Dock II (ii CF+ Type II / 2-bit / PCMCI rt (4-pin)	ncludes U supports o A 2.1 / inte	optional IBM Micro egrated door	drive™	,	 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
Ports Wireless antenna	Two USB (version 2.0) / € RJ-45 (ethernet) / paralle UltraConnect™ antenna b	I / IEEE 1394	(4-pin) / r	no serial, keyboard	l, or mouse p	orts	Ultrabay 2000 accessories: CD-RW/DVD Combo IV Ultrabay 2000 22P6991
Mini PCI 11b Wi-Fi ³²	One Mini PCI type III slot Some: 11b Wi-Fi ³² wirele 802.11b, Intel 825	(Communica ss ⁴ , Mini PCI, 31 chipset	tions Bay , Intel PRC) / customer upgra D/Wireless 2100 No	deable twork Conne	·	Second HDD Adapter for Ultrabay 2000 08K6068 ThinkPad Removable Diskette Drive
IBM 11b/g ³² CDC Modem Bluetooth™	Some: IBM 11b/g Wi-Fi ³² One Communications Da 56K ⁶ V.90 (V.92-designed None	ughter Card (1 ²⁹) modem in	CDC) soci CDC / Ag	ket / customer acce ere® chipset	essible		08K9603 • Ultrabay 2000 Li-Ion battery02K6646 • Multi-Burner Plus Ultrabay Enhanced Drive 73P3312
Ethernet Audio support	Gigabit Ethernet on systel Soft audio / ICH AC97 co mono speaker / 0.5 watt /	ntroller / Dire volume up, d	ctSound® down, mute	support / AD1981 e buttons / internal	B [°] AC97 code mic /		X3 UltraBase bottom contains: • Bay for X30 battery (same as X31)
Security Security chip	microphone input jack (pi Power-on password / dua IBM Embedded Security authentication / local file	al hard disk pa / Subsystem	assword / 1 2.0 ³³ / ha	supervisor passw Irdware key storag	ord / security e / multi-facto	keyhole or	Other features: Second battery support (for Ultrabay battery or second 6-cell battery) Stereo speakers (1 watt)
	3 years/1 yr battery - Eas						Security keyhole, UltraBase lock Serial and parallel ports
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 le Diskette Drive 6B 2.0 Port Combo Drive	31P9830 T 31P9832 T 31P9834 T 05K9276 T	ThinkPad F ThinkPad N ThinkPad D ThinkPad X		attery (6-cell) (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 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 ss 2200BG Mini PCI tor	22P9163 T 22P9230 T 09N4268 T 08K9816 II 09N4273 S 22P5265 31P9101 S 31P9701 S 73P2801 S 0038A04 S	ThinkPad M ThinkPad L ThinkPad 7 BM USB T ServicePad ServicePad ServicePad ServicePad ServicePad	Multiple Battery Cha Jltraportable 56W A 22W AC/DC Combot fravel Keyboard wit 15°.22 2yr IOR 9x5 NBD 2 4yr IOR 9x5 NBD 5 4yr IOR 9x5 NBD 5 4yr P&L P/U Depons at ibm.com/po.	arger II AC Adapter O Adapter O H UltraNav BD Ot	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