

Type-model	Processor	GHz	Memory	Screen	Disk	Optical	Mini PCI wireless	CDC: modem/Bluetooth™	Security Chip	Ethernet planar	Preload	Workhorse or Global model	Avail date
2672-B2U	Pentium® M	1.3	256MB	12.1" XGA	20GB <sup>8</sup>	None	Open; wireless upg <sup>36</sup>	Modem		10/100	XP Pro		Mar 2003
2672-BBU	Pentium M	1.3	256MB	12.1" XGA	20GB	None	*Intel 11b Wi-Fi <sup>32</sup>	Modem	Yes	10/100	XP Pro		Mar 2003
2672-C2U	Pentium M	1.4	256MB	12.1" XGA	40GB	None	Open; wireless upg	Modem	Yes	10/100	XP Pro	W G	Mar 2003
2672-CBU	Pentium M	1.4	256MB	12.1" XGA	40GB	None	*Intel 11b Wi-Fi	Modem	Yes	10/100	XP Pro	W G	Mar 2003
2672-CXU	Pentium M	1.4	256MB	12.1" XGA	40GB	None	Cisco® 802.11b	Modem	Yes	10/100	XP Pro	W G	Mar 2003
2672-JHU	Pentium M	1.4	256MB	12.1" XGA	40GB	None	11a/b Wi-Fi <sup>27</sup>	Mod/Blue	Yes	Gigabit	XP Pro	W	Mar 2003
2672-J7U	Pentium M	1.4	256MB	12.1" XGA	40GB	None	Open; wireless upg	Modem	Yes	Gigabit	XP Pro	W	Mar 2003
2672-JBU	Pentium M	1.4	256MB	12.1" XGA	40GB	None	*Intel 11b Wi-Fi	Modem	Yes	Gigabit	XP Pro	W	Mar 2003
2672-JXU	Pentium 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										SOFTWARE <sup>14</sup>		
L2 cache	Intel® Pentium® M Processor 1.3 or 1.4GHz with enhanced Intel SpeedStep™ technology <sup>1</sup> and 400MHz frontside bus										Windows XP Pro models		
Memory	1MB / on die (at processor speed) / ECC										- Microsoft® Windows® XP Professional <sup>20</sup>		
	256MB std / 2GB max <sup>7</sup> / PC2100 266MHz DDR-SDRAM / non-parity / CL2.5 / two 200-pin SO-DIMM sockets / std memory in one socket / one socket available										✧ Disk-to-Disk Recovery (in hidden protected area)		
Diskette drive	None standard / use optional Ultrabay™-based (in opt X3) or USB-based diskette drive										Preloaded		
Optical drive	None standard / optional USB-based optical, or optional Ultrabay 2000-based optical 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										• Access Connections		
	20 or 40GB <sup>8</sup> , 4200 rpm, 9.5mm, ATA-100 / removable and upgradable / 9.5mm high bay										• Adobe Acrobat Reader		
Display	12.1" (308mm) XGA (1024x768) TFT color / Active Matrix / 150 nits / two latches										• IBM Rapid Restore™ PC		
Graphics controller	ATI® Mobility RADEON® / AGP 4X / 16MB DDR-SDRAM										• Norton AntiVirus (OEM edition)		
Graphics - external	External monitor support via analog DB-15 connector / up to 1280x1024x16.7M at 85Hz										• PC-Doctor™		
Keyboard	Standard-size <sup>26</sup> keys / 97% size of T Series / 87-key / 18.5mm pitch; 2.5mm stroke / Access IBM button / palm rest / TrackPoint®, "Press-to-Select," Internet Scroll Bar <sup>13</sup> / soft dome TrackPoint cap / ships with classic dome and soft rim TrackPoint cap										• ThinkPad Utilities		
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions										• IBM Update Connector™ <sup>15</sup>		
Dimensions <sup>3</sup>	10.7" x 8.8" x .98"-1.19"; 273mm x 223mm x 24.9-30.2mm										Downloadable		
Travel weight <sup>2</sup>	with battery: 3.6 lb (1.64 to 1.65kg)										• IBM Director Agent		
Case material	Titanium composite in the top cover / magnesium alloy bottom case										• Software Delivery Assistant		
Battery - type	Li-Ion 6-cell / intelligent / supports opt Extended Life Battery on base (for two batteries); supports Ultrabay battery or optional 6-cell battery in X3 UltraBase (for two batteries)										• System Migration Assistant		
Battery - life <sup>10</sup>	5.3 to 6.0 hrs; with std battery and optional Extended Life Battery: 9.9 to 10.1 hrs										• Client Security Software (security chip model)		
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 (Ricoch® R5C522 CardBus/1394 combo controller, Mini PCI, ext expansion) / LPC bus 33MHz (PC87392 Super I/O for infrared [dock-based diskette, serial, parallel])										License (CD not included)		
Media slice	Optional X3 UltraBase media slice (see right side)										- Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client		
Compact Flash slot	Compact Flash slot / 1 CF+ Type II / supports optional IBM Microdrive™										IBM ThinkPad X3 UltraBase™ Option		
PC Card Std slot	One Type II / CardBus 32-bit / PCMCIA 2.1										Right bay of X3 UltraBase supports most Ultrabay 2000 options:		
IEEE 1394	IEEE 1394 (FireWire) Port (4-pin)										• Optional battery, CD-ROM, CD-RW, DVD-ROM, Zip 250MB, Combo		
Ports	Two USB (version 2.0) / external DB-15 monitor / infrared (4Mbps) / RJ-11 (modem) / RJ-45 (ethernet) / parallel / IEEE 1394 (4-pin) / no serial, keyboard, or mouse ports										• Optional HDD adapter; for 2nd disk such as 80GB HS Hard Disk 9.5mm (5400 rpm) 09N4273		
Wireless antenna	UltraConnect™ antenna built into the display cover for optimal wireless signal reception										• Ultrabay Plus-compatible		
Mini PCI	One Mini PCI type III slot (Communications Bay) / customer upgradeable										Ultrabay 2000 accessories:		
Wireless upg <sup>36</sup>	Some: Wireless upgradable with wireless Mini PCI options										• CD-RW/DVD Combo IV Ultrabay 2000 22P6991		
11b Wi-Fi <sup>32</sup>	Some: 11b Wi-Fi <sup>32</sup> wireless <sup>4</sup> , Mini PCI, Intel PRO/Wireless 2100 Network Connection 802.11b, Intel 82531 chipset										• Second HDD Adptr for Ultrabay 2000 08K6068		
Cisco 802.11b	Some: 802.11b wireless <sup>4</sup> , Mini PCI, Cisco® Aironet® Wireless 802.11b, Prism 2.0 chipset										• ThinkPad Removable Diskette Drive 08K9603		
11a/b Wi-Fi <sup>27</sup>	Some: 11a/b Wi-Fi <sup>27</sup> wireless <sup>4</sup> , Mini PCI, Atheros™ AR5001X chipset										• Ultrabay 2000 Li-Ion battery 02K6646		
CDC	One Communications Daughter Card (CDC) socket / customer accessible										X3 UltraBase bottom contains:		
Modem	56K <sup>6</sup> V.90 (V.92-designed <sup>29</sup> ) modem in CDC / Agere® chipset										• Bay for X30 battery (same as X31)		
Bluetooth™	Some: Bluetooth wireless technology / in CDC (with modem)										Other features:		
Ethernet	Some: 10/100 ethernet on systemboard / Intel 82562EZ chipset (physical layer) / PXE										• Second battery support (for Ultrabay battery or second 6-cell battery)		
	Some: Gigabit ethernet on systemboard / Intel 82540EP chipset (MAC/PHY) / PXE										• Stereo speakers (1 watt)		
Audio support	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]										• Security keyhole, UltraBase lock		
Security	Power-on password / dual hard disk password / supervisor pwd / security keyhole										• Serial and parallel ports		
Security chip	Some: IBM Embedded Security Subsystem 2.0 <sup>33</sup> / hardware key storage / multi-factor authentication / local file encryption / enhances VPN security <sup>16</sup> / TCG-compliant										• PS/2 mouse port		
Limited warranty <sup>12</sup>	3 years/1 yr battery - EasyServ™ <sup>19</sup> onsite pickup and delivery / service upgrades <sup>22</sup> avail										• 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		
128MB PC2100 DDR-SDRAM CL2.5 SOD	10K0028										56 watt AC Adapter		
256MB PC2100 DDR-SDRAM CL2.5 SOD	10K0030										Asset ID™ <sup>34</sup> (system-specific info in chip accessed over network)		
512MB PC2100 DDR-SDRAM CL2.5 SOD	10K0032										PC 2001-compliant		
1GB PC2700 DDR-SDRAM CL2.5 SOD	31P9834										ACPI 1.0b and 2.0-compliant		
USB Portable Diskette Drive	05K9276										CIM and DMI 2.0-compliant		
40GB HS Hard Disk 9.5mm (5400 rpm)	08K9816										IBM Rapid Restore PC available to protect software image and data		
80GB HS Hard Disk 9.5mm (5400 rpm)	09N4273										International Warranty Service <sup>17</sup>		
IBM 256MB USB 2.0 MemoryKey	22P9025										24 hour x 7 day <sup>18</sup> toll-free warranty support during the warranty <sup>12</sup>		
IBM 11a/b/g Wireless CardBus Adapter	31P9101												
IBM 11a/b/g Wireless Mini PCI Adapter	31P9701												
Intel PRO/Wireless 2100 3B Mini PCI	31P8601												
Cisco Aironet Wireless 802.11b Mini PCI	31P8301												
Intel PRO/Wireless 2200BG Mini PCI	73P2801												
IBM ThinkPad X3 UltraBase media slice	46P7912												
ThinkPad Port Replicator II	74P6733												
ThinkPad Mini Dock	287810U												
ThinkPad Dock II	287710U												
ThinkPad X30 Series Li-Ion Battery (6-cell)	02K7039												
ThinkPad X30 Series Extended Life Battery	02K7041												
ThinkPad Ultraportable 56W AC Adapter	02K6880												
ThinkPad 72W AC/DC Combo Adapter	22P9010												
ServicePac® <sup>22</sup> 2yr IOR 9x5 NBD	30L9190												
ServicePac 3yr IOR 9x5 NBD	30L9197												
ServicePac 5yr IOR 9x5 NBD	69P9200												
ServicePac 5yr P&L P/U Depot	69P9201												
Other options at <a href="http://ibm.com/pc/us/accessories">ibm.com/pc/us/accessories</a>													

Type-model	Processor	GHz	Memory	Screen	Disk	Optical	Mini PCI wireless	CDC: modem/Bluetooth™	Security Chip	Ethernet planar	Preload	Workhorse or Global model	Avail date		
2672-B1U	Pentium® M	1.3	256MB	12.1" XGA	20GB <sup>8</sup>	None	Open; wireless upg <sup>36</sup>	Modem		10/100	2000	No	Mar 2003		
2672-BAU	Pentium M	1.3	256MB	12.1" XGA	20GB	None	*Intel 11b Wi-Fi	Modem	Yes	10/100	2000	No	Mar 2003		
2672-C1U	Pentium M	1.4	256MB	12.1" XGA	40GB	None	Open; wireless upg	Modem		10/100	2000	No	Mar 2003		
2672-CAU	Pentium M	1.4	256MB	12.1" XGA	40GB	None	*Intel 11b Wi-Fi	Modem	Yes	10/100	2000	No	Mar 2003		
2672-J6U	Pentium M	1.4	256MB	12.1" XGA	40GB	None	Open; wireless upg	Modem	Yes	Gigabit	2000	No	Mar 2003		
2672-JAU	Pentium M	1.4	256MB	12.1" XGA	40GB	None	*Intel 11b Wi-Fi	Modem	Yes	Gigabit	2000	No	Mar 2003		
Positioning Processor	<i>Extreme mobility in a small and light ultraportable; one spindle</i> <b>Intel® Pentium® M Processor 1.3 or 1.4GHz</b> with enhanced Intel SpeedStep™ technology <sup>1</sup> and 400MHz frontside bus									<b>SOFTWARE<sup>14</sup></b>					
L2 cache	<b>1MB</b> / on die (at processor speed) / ECC									<b>Windows 2000 models</b>					
Memory	<b>256MB</b> std / 2GB max <sup>7</sup> / <b>PC2100</b> 266MHz DDR-SDRAM / non-parity / CL2.5 / two 200-pin SO-DIMM sockets / std memory in one socket / one socket available									- Microsoft® Windows® 2000 Professional <sup>20</sup>					
Diskette drive	None standard / use optional Ultrabay™-based (in opt X3) or USB-based diskette drive									• ConfigSafe®					
Optical drive	None standard / optional USB-based optical, or optional Ultrabay 2000-based optical removable from optional X3 UltraBase, ThinkPad Dock, or ThinkPad Dock II									✧ Disk-to-Disk Recovery (in hidden protected area)					
Ultrabay™ 2000 Disk	Supports Ultrabay 2000 devices in optional X3 UltraBase, ThinkPad Dock, or Dock II									<b>Preloaded</b>					
Display	<b>12.1"</b> (308mm) <b>XGA (1024x768) TFT color</b> / Active Matrix / 150 nits / easy-open cover to unlatch and open with one hand (two latches)									• Access IBM					
Graphics controller	<b>ATI® Mobility RADEON® / AGP 4X / 16MB</b> DDR-SDRAM									• - Access Connections					
Graphics - external	External monitor support via analog DB-15 connector / up to 1280x1024x16.7M at 85Hz									• Adobe Acrobat Reader					
Keyboard	Standard-size <sup>26</sup> keys / 97% size of T Series / 87-key / 18.5mm pitch; 2.5mm stroke / Access IBM button / palm rest / TrackPoint®, "Press-to-Select," Internet Scroll Bar <sup>13</sup> / soft dome TrackPoint cap / ships with classic dome and soft rim TrackPoint cap									• IBM Rapid Restore™ PC					
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions									• Norton AntiVirus (OEM edition)					
Dimensions <sup>3</sup>	10.7" x 8.8" x .98"-1.19"; 273mm x 223mm x 24.9-30.2mm									• PC-Doctor™					
Travel weight <sup>2</sup>	with battery: 3.6 lb (1.64 to 1.65kg)									• ThinkPad Utilities					
Case material	<b>Titanium composite</b> in the top cover / magnesium alloy bottom case									• IBM Update Connector™ <sup>15</sup>					
Battery - type	Li-Ion 6-cell / intelligent / supports opt Extended Life Battery on base (for two batteries) supports Ultrabay battery or optional 6-cell battery in X3 UltraBase (for two batteries)									<b>Downloadable</b>					
Battery - life <sup>10</sup>	5.2 to 5.4 hrs; with std battery and optional Extended Life Battery: 9.2 to 9.4 hrs									• IBM Director Agent					
Architecture	<b>Intel 855PM</b> 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 2.32-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])									• Software Delivery Assistant					
Media slice	Optional <b>X3 UltraBase media slice</b> (see right side)									• System Migration Assistant					
Docking Station	Optional <b>ThinkPad Dock</b> or <b>Dock II</b> (includes Ultrabay 2000 and half-size PCI slot)									• Client Security Software (security chip model)					
Compact Flash slot	<b>Compact Flash slot</b> / 1 CF+ Type II / supports optional IBM Microdrive™									<b>License</b> (CD not included)					
PC Card Std slot	One Type II / CardBus 32-bit / PCMCIA 2.1									- Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client					
IEEE 1394	<b>IEEE 1394 (FireWire) Port</b> (4-pin)									<b>IBM ThinkPad X3 UltraBase™ Option</b>					
Ports	Two USB (version 2.0) / external DB-15 monitor / infrared (4Mbps) / RJ-11 (modem) / RJ-45 (ethernet) / parallel / IEEE 1394 (4-pin) / no serial, keyboard, or mouse ports									Right bay of X3 UltraBase supports most Ultrabay 2000 options:					
Wireless antenna	UltraConnect™ antenna built into the display cover for optimal wireless signal reception									• Optional battery, CD-ROM, CD-RW, DVD-ROM, Zip 250MB, Combo					
Mini PCI	One Mini PCI type III slot (Communications Bay) / customer upgradeable									• Optional HDD adapter; for 2nd disk such as 80GB Hard Disk 9.5mm (4200 rpm) 08K9869					
Wireless upg <sup>36</sup>	<i>Some:</i> Wireless upgradeable with wireless Mini PCI options									• Ultrabay Plus-compatible					
11b Wi-Fi <sup>32</sup>	<i>Some:</i> 11b Wi-Fi <sup>32</sup> wireless <sup>4</sup> , Mini PCI, Intel PRO/Wireless 2100 Network Connection 802.11b, Intel 82531 chipset									Ultrabay 2000 accessories:					
CDC	One Communications Daughter Card (CDC) socket / customer accessible									• CD-RW/DVD Combo IV Ultrabay 2000 22P6991					
Modem	56K <sup>6</sup> V.90 (V.92-designed <sup>29</sup> ) modem in CDC / Agere® chipset									• Second HDD Adptr for Ultrabay 2000 08K6068					
Bluetooth™	None standard (optional PC Card available)									• ThinkPad Removable Diskette Drive 08K9603					
Ethernet	<i>Some:</i> 10/100 ethernet on systemboard / Intel 82562EZ chipset (physical layer) / PXE									• Ultrabay 2000 Li-Ion battery 02K6646					
Audio support	<i>Some:</i> Gigabit ethernet on systemboard / Intel 82540EP chipset (MAC/PHY) / PXE									X3 UltraBase bottom contains:					
Security	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]									• Bay for X30 battery (same as X31)					
Security chip	Power-on password / dual hard disk password / supervisor pwd / security keyhole									Other features:					
Limited warranty <sup>12</sup>	<b>3 years/1 yr battery</b> - EasyServ™ <sup>19</sup> onsite pickup and delivery / service upgrades <sup>22</sup> avail									• Second battery support (for Ultrabay battery or second 6-cell battery)					
128MB PC2100 DDR-SDRAM CL2.5 SOD	10K0028	IBM ThinkPad X3 UltraBase media slice		46P7912											
256MB PC2100 DDR-SDRAM CL2.5 SOD	10K0030	ThinkPad Port Replicator II		74P6733											
512MB PC2100 DDR-SDRAM CL2.5 SOD	10K0032	ThinkPad Mini Dock		287810U											
1GB PC2700 DDR-SDRAM CL2.5 SOD	31P9834	ThinkPad Dock II		287710U											
IBM USB Portable Diskette Drive	05K9276	ThinkPad X30 Series Li-Ion Battery (6-cell)		02K7039											
IBM USB 2.0 Portable CD-RW Drive	22P5297	ThinkPad X30 Series Extended Life Battery		02K7041											
20GB Hard Disk Drive 9.5 mm (4200 rpm)	08K9686	ThinkPad Multiple Battery Charger II		22P9040											
40GB HS Hard Disk 9.5mm (5400 rpm)	08K9816	ThinkPad Ultraportable 56W AC Adapter		02K6880											
80GB Hard Disk Drive 9.5mm (4200 rpm)	08K9869	ThinkPad 72W AC/DC Combo Adapter		22P9010											
IBM 64MB USB 2.0 Memory Key	22P9024	ServicePac <sup>22</sup> 2yr IOR 9x5 NBD		30L9190											
IBM 256MB USB 2.0 MemoryKey	22P9025	ServicePac 3yr IOR 9x5 NBD		30L9197											
ThinkPad Monitor Stand 2001	22P5265	ServicePac 4yr IOR 9x5 NBD		69P9198											
IBM 11a/b/g Wireless CardBus Adapter	31P9101	ServicePac 5yr IOR 9x5 NBD		69P9200											
IBM 11a/b/g Wireless Mini PCI Adapter	31P9701	ServicePac 4yr P&L P/U Depot		69P9199											
Intel PRO/Wireless 2100 3B Mini PCI	31P8601	ServicePac 5yr P&L P/U Depot		69P9201											
Cisco Aironet Wireless 802.11b Mini PCI	31P8301	Other options at <a href="http://ibm.com/pc/us/accessories">ibm.com/pc/us/accessories</a>													
				56 watt AC Adapter											
				Asset ID™ <sup>34</sup> (system-specific info in chip accessed over network)											
				PC 2001-compliant											
				ACPI 1.0b and 2.0-compliant											
				CIM and DMI 2.0-compliant											
				IBM Rapid Restore PC available to protect software image and data											
				International Warranty Service <sup>17</sup>											
				24 hour x 7 day <sup>18</sup> toll-free hardware support during the warranty <sup>12</sup>											

See footnotes for important warranty information

\* Powered by Intel Centrino™ mobile technology

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US models announced March 12, 2003

US models withdrawn effective October 2003 or January 2004



Type-model	Processor	GHz	Memory	Screen	Disk	Optical in	ThinkPad UltraBase X3 UltraBase™	Mini PCI wireless	CDC: modem/Bluetooth™	Sec chip	Ethernet planar Preload	WH (W) Gbl Entry (E)	(G) Avail date
2672-38U	Pentium® M	1.5	256MB	12.1" XGA	30GB <sup>8</sup>	None	Optional	Open; wireless upg <sup>36</sup>	Modem	Yes	10/100	XP Pro	Feb 04
2672-3KU	Pentium M	1.5	256MB	12.1" XGA	30GB	None	Optional	*Intel 11b Wi-Fi <sup>32</sup>	Modem	Yes	10/100	XP Pro	Feb 04
2672-3UU	Pentium M	1.5	256MB	12.1" XGA	30GB	None	Optional	IBM 11b/g <sup>32</sup>	Modem	Yes	10/100	XP Pro	Feb 04
2672-58U	Pentium M	1.7	256MB	12.1" XGA	40GB	None	Optional	Open; wireless upg	Modem	Yes	Gigabit	XP Pro	Feb 04
2672-5KU	Pentium M	1.7	256MB	12.1" XGA	40GB	None	Optional	*Intel 11b Wi-Fi	Modem	Yes	Gigabit	XP Pro	Feb 04
2672-7KU	Pentium M	1.7	512MB	12.1" XGA	40GB	None	Optional	*Intel 11b Wi-Fi	Modem	Yes	Gigabit	XP Pro	Feb 04
2672-4UU	Pentium M	1.7	512MB	12.1" XGA	40HS	None	Optional	IBM 11b/g	Modem	Yes	Gigabit	XP Pro	Feb 04
2672-5UU	Pentium M	1.7	256MB	12.1" XGA	40GB	None	Optional	IBM 11b/g	Modem	Yes	Gigabit	XP Pro	Feb 04
2672-5ZU	Pentium M	1.7	256MB	12.1" XGA	40GB	None	Optional	11a/b/g Wi-Fi <sup>32</sup>	Modem	Yes	Gigabit	XP Pro	Feb 04
Positioning Processor	Ultimate mobility in a versatile ultraportable; one spindle <b>Intel® Pentium® M Processor 1.5 or 1.7GHz</b> with enhanced Intel SpeedStep™ technology <sup>1</sup> and 400MHz system bus										<b>SOFTWARE<sup>14</sup></b>		
L2 cache	<b>1MB</b> / on die (at processor speed) / ECC										<b>Windows XP Professional</b>		
Memory	<b>256 or 512MB</b> std / 2GB max <sup>7</sup> / <b>PC2700</b> 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										- Microsoft® Windows® XP Professional <sup>20</sup> ◇ Disk-to-Disk Recovery (in hidden protected area)		
Diskette drive	None standard / use optional Ultrabay™-based (inX3) or USB-based diskette drive										<b>Preloaded</b>		
Optical	None standard / optional USB-based optical, or optional Ultrabay 2000-based optical removable from optional X3 UltraBase, ThinkPad Dock, or ThinkPad Dock II										• Access IBM		
Ultrabay™ 2000 Disk	Supports Ultrabay 2000 devices in optional X3 UltraBase (or optional ThinkPad Dock II) <b>30GB</b> (4200 rpm), <b>40GB<sup>9</sup></b> (4200 rpm), or <b>40GB</b> (HS 5400 rpm), 9.5mm, ATA-100 / removable and upgradable / 9.5mm high bay										• Access Connections		
Display	<b>12.1"</b> (308mm) <b>XGA (1024x768) TFT color</b> / Active Matrix / 150 nits										• Adobe Reader		
Graphics controller	<b>ATI® MOBILITY™ RADEON® / AGP 4X / 16MB</b> DDR1 (DDR-SDRAM)										• IBM Rapid Restore™ Ultra		
Graphics - external	External monitor support via analog DB-15 connector / up to 1280x1024x16.7M at 85Hz										• Norton AntiVirus (OEM edition)		
Keyboard	Standard-size <sup>26</sup> keys / 97% size of T Series / 87-key / 18.5mm pitch; 2.5mm stroke / Access IBM button / palm rest / TrackPoint®, "Press-to-Select," Internet Scroll Bar <sup>13</sup> / soft dome TrackPoint cap / ships with classic dome and soft rim TrackPoint cap										• PC-Doctor™		
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions										• ThinkPad Utilities		
Dimensions <sup>3</sup>	<i>without X3 UltraBase:</i> 10.7" x 8.8" x .98-1.19"; 273mm x 223mm x 24.9-30.2mm <i>with X3 UltraBase and optical:</i> 10.8" x 8.9" x 2.0-2.3"; 273 x 227 x 51-58mm										• IBM Update Connector™ <sup>15</sup>		
Travel weight <sup>2</sup>	<i>with battery:</i> 3.6 lb (1.65kg); <i>with X3 UltraBase and optical:</i> 5.6 lb (2.54kg)										<b>Downloadable</b>		
Case material	<i>Color:</i> black; <i>All:</i> <b>titanium composite</b> in the top cover / magnesium alloy bottom case										• IBM Director Agent		
Battery - type	Li-Ion 6-cell / intelligent / supports opt Extended Life Battery on base (for two batteries) supports Ultrabay battery or optional 6-cell battery in X3 UltraBase (for two batteries) 5.5 to 6.0 hrs; <i>with std battery and optional Extended Life Battery:</i> up to 10.1 hrs										• Software Delivery Assistant		
Battery - life <sup>10</sup>											• System Migration Assistant		
Architecture	<b>Intel 855PM</b> 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)										• Client Security Software (for security chip)		
Media slice	Optional <b>X3 UltraBase media slice</b> (see right side)										<b>License</b> (CD not included)		
Compact Flash slot	<b>Compact Flash slot</b> / 1 CF+ Type II / supports optional IBM Microdrive™										- Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client		
PC Card Std slot	One Type II / CardBus 32-bit / PCMCIA 2.1 / integrated door										<b>IBM ThinkPad X3 UltraBase™</b>		
IEEE 1394	<b>IEEE 1394 (FireWire) port</b> (4-pin)										Right bay of X3 UltraBase supports most Ultrabay 2000 options:		
Ports	Two USB (version 2.0) / external DB-15 monitor / infrared (4Mbps) / RJ-11 (modem) / RJ-45 (ethernet) / parallel / IEEE 1394 (4-pin) / no serial, keyboard, or mouse ports										• Optional battery, CD-ROM, CD-RW, DVD-ROM, Zip 250MB, Combo		
Wireless antenna	UltraConnect™ antenna built into the display cover for optimal wireless signal reception										• Optional HDD adapter for 2nd disk		
Mini PCI	One Mini PCI type III slot (Communications Bay) / customer upgradeable										• Ultrabay Plus-compatible		
Wireless upg <sup>36</sup>	<i>Some:</i> wireless upgradeable with wireless Mini PCI options										Ultrabay 2000 accessories:		
11b Wi-Fi <sup>32</sup>	<i>Some:</i> 11b Wi-Fi <sup>32</sup> wireless <sup>4</sup> , Mini PCI, Intel PRO/Wireless 2100 Network Connection 802.11b, Intel 82531 chipset										• CD-RW/DVD Combo IV Ultrabay 2000 22P6991		
IBM 11b/g <sup>32</sup>	<i>Some:</i> IBM 11b/g Wi-Fi <sup>32</sup> wireless <sup>4</sup> , Mini PCI, Atheros™ AR5004G chipset										• Second HDD Adapter for Ultrabay 2000 08K6068		
11a/b/g Wi-Fi <sup>32</sup>	<i>Some:</i> 11a/b/g Wi-Fi <sup>32</sup> wireless <sup>4</sup> , Mini PCI, Atheros™ AR5001X+ chipset										• ThinkPad Removable Diskette Drive 08K9603		
CDC	One Communications Daughter Card (CDC) socket / customer accessible										• Ultrabay 2000 Li-Ion battery 02K6646		
Modem	56K <sup>6</sup> V.90 (V.92-designed <sup>29</sup> ) modem in CDC / Agere® chipset										• Enhanced Drive Adapter for Ultrabay 2000 73P3268		
Bluetooth™	None										X3 UltraBase bottom contains:		
Ethernet	<i>Some:</i> 10/100 ethernet on systemboard / Intel 82562EZ chipset (physical layer) / PXE										• Bay for X30 battery (same as X31)		
Audio support	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:		
Security	Power-on password / dual hard disk password / supervisor password / security keyhole										• Second battery support (for Ultrabay battery or second 6-cell battery)		
Security chip	<b>IBM Embedded Security Subsystem 2.0<sup>33</sup></b> / Atmel® chip / TCG-compliant										• Stereo speakers (1 watt)		
Limited warranty <sup>12</sup>	<b>3 years/1 yr battery - EasyServ™</b> <sup>19</sup> onsite pickup and delivery / service upgrades <sup>22</sup> avail										• Security keyhole, UltraBase lock		
128MB PC2700 DDR-SDRAM CL2.5 SOD	31P9828										• Serial and parallel ports		
256MB PC2700 DDR-SDRAM CL2.5 SOD	31P9830										• PS/2 mouse port		
512MB PC2700 DDR-SDRAM CL2.5 SOD	31P9832										• Analog DB-15 monitor port		
1GB PC2700 DDR-SDRAM CL2.5 SOD	31P9834										• One USB port (Ver 2.0 only on X31)		
IBM USB 2.0 Portable Multi-Burner	22P9163										• Ethernet port and modem port		
IBM USB Fingerprint Reader	73P4774										• Retractable feet; 1.41 lb; 638g		
60GB HS Hard Disk 9.5mm (5400 rpm)	73P3357										56 watt AC Adapter		
80GB HS Hard Disk 9.5mm (5400 rpm)	09N4273										Asset ID™ <sup>34</sup> (system-specific info in chip accessed over network)		
IBM 11a/b/g Wireless CardBus Adapter	31P9101										PC 2001-compliant		
IBM 11a/b/g Wireless Mini PCI Adapter	31P9701										ACPI 1.0b and 2.0-compliant		
Intel PRO/Wireless 2200BG Mini PCI	73P2801										CIM and DMI 2.0-compliant		
Preferred Pro USB Fingerprint Keyboard	73P4730										ENERGY STAR®-compliant		
											International Warranty Service <sup>17</sup>		
											24 hour x 7 day <sup>18</sup> toll-free warranty support during the warranty <sup>12</sup>		

Type-model	Processor	GHz	Memory	Screen	Disk	Optical	Mini PCI wireless	CDC: modem/Bluetooth™	Security Chip	Ethernet planar	Preload	Limited Warranty	Avail date
2884-BNU	Pentium® M	1.3	256MB	12.1" XGA	20GB <sup>8</sup>	None	Open; wireless upg <sup>36</sup>	Modem	Yes	10/100	XP Pro	1 year	May 2003
2884-BRU	Pentium M	1.3	256MB	12.1" XGA	20GB	None	*Intel 11b Wi-Fi <sup>32</sup>	Modem	Yes	10/100	XP Pro	1 year	May 2003
2884-CRU	Pentium M	1.4	256MB	12.1" XGA	40GB	None	*Intel 11b Wi-Fi	Modem	Yes	10/100	XP Pro	1 year	May 2003
2884-JUU	Pentium M	1.4	256MB	12.1" XGA	40GB	None	11a/b Wi-Fi <sup>27</sup>	Mod/Blue	Yes	10/100	XP Pro	1 year	May 2003
• These small and medium business (SMB) models are part of the IBM US Think Express Program • The 2884 has a 1 year limited warranty													
Positioning Processor	Ultimate mobility in a versatile ultraportable; one spindle Intel® Pentium® M Processor 1.3 or 1.4GHz with enhanced Intel SpeedStep™ technology <sup>1</sup> and 400MHz frontside bus										SOFTWARE <sup>14</sup>		
L2 cache	1MB / on die (at processor speed) / ECC										Windows XP Professional		
Memory	256MB std / 2GB max <sup>7</sup> / PC2100 266MHz DDR1 (DDR-SDRAM) / non-parity / CL2.5 / two 200-pin SO-DIMM sockets / std memory in one socket / one socket available										- Microsoft® Windows® XP Professional <sup>20</sup> • ConfigSafe® ◇ Disk-to-Disk Recovery (in hidden protected area)		
Diskette drive	None standard / use optional Ultrabay™-based (in opt X3) or USB-based diskette drive										Preloaded		
Optical drive	None standard / optional USB-based optical, or optional Ultrabay 2000-based optical removable from optional X3 UltraBase, ThinkPad Dock, or ThinkPad Dock II										• Access IBM - Access Connections		
Ultrabay™ 2000 Disk	Supports Ultrabay 2000 devices in optional X3 Ultrabase, ThinkPad Dock, or Dock II 20 or 40GB <sup>8</sup> , 4200 rpm, 9.5mm, ATA-100 / removable and upgradable / 9.5mm high bay										• Adobe Reader • IBM Rapid Restore™ PC • Norton AntiVirus (OEM edition) • PC-Doctor™ • ThinkPad Utilities • IBM Update Connector™ <sup>15</sup>		
Display	12.1" (308mm) XGA (1024x768) TFT color / Active Matrix / 150 nits / easy-open cover to unlatch and open with one hand (two latches)										Downloadable		
Graphics controller	ATI® Mobility RADEON® / AGP 4X / 16MB DDR1 (DDR-SDRAM)										• IBM Director Agent • Software Delivery Assistant • System Migration Assistant • Client Security Software (for security chip)		
Graphics - external	External monitor support via analog DB-15 connector / up to 1280x1024x16.7M at 85Hz										License (CD not included) - Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client		
Keyboard	Standard-size <sup>26</sup> keys / 97% size of T Series / 87-key / 18.5mm pitch; 2.5mm stroke / Access IBM button / palm rest / TrackPoint®, "Press-to-Select," Internet Scroll Bar <sup>13</sup> / soft dome TrackPoint cap / ships with classic dome and soft rim TrackPoint cap										IBM ThinkPad X3 UltraBase™ Option		
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions										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		
Dimensions <sup>3</sup>	10.7" x 8.8" x .98"-1.19"; 273mm x 223mm x 24.9-30.2mm										Ultrabay 2000 accessories: • CD-RW/DVD Combo IV Ultrabay 2000 22P6991 • Second HDD Adptr for Ultrabay 2000 08K6068 • ThinkPad Removable Diskette Drive 08K9603 • Ultrabay 2000 Li-Ion battery 02K6646		
Travel weight <sup>2</sup>	with battery: 3.6 lb (1.64kg)										X3 UltraBase bottom contains: • Bay for X30 battery (same as X31)		
Case material	Titanium composite in the top cover / magnesium alloy bottom case										Other features: • Second battery support (for Ultrabay battery or second 6-cell battery) • Stereo speakers (1 watt) • Security keyhole, UltraBase lock • 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		
Battery - type	Li-Ion 6-cell / intelligent / supports opt Extended Life Battery on base (for two batteries) supports Ultrabay battery or optional 6-cell battery in X3 UltraBase (for two batteries)										56 watt AC Adapter		
Battery - life <sup>10</sup>	Up to 5.5 hrs; with std battery and optional Extended Life Battery: up to 10 hrs										Asset ID™ <sup>34</sup> (system-specific info in chip accessed over network) PC 2001-compliant ACPI 1.0b and 2.0-compliant CIM and DMI 2.0-compliant IBM Rapid Restore PC available to protect software image and data International Warranty Service <sup>17</sup> 24 hour x 7 day <sup>18</sup> toll-free warranty support during the warranty <sup>12</sup> via 800-IBM-SERV (426-7378)		
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 (Ricoch® R5C522 CardBus/1394 combo controller, Mini PCI, ext expansion) / LPC bus 33MHz (PC87392 Super I/O for infrared [dock-based diskette, serial, parallel])												
Media slice	Optional X3 UltraBase media slice (see right side)												
Docking Station	Optional ThinkPad Dock or Dock II (includes Ultrabay 2000 and half-size PCI slot)												
Compact Flash slot	Compact Flash slot / 1 CF+ Type II / supports optional IBM Microdrive™												
PC Card Std slot	One Type II / CardBus 32-bit / PCMCIA 2.1												
IEEE 1394	IEEE 1394 (FireWire) Port (4-pin)												
Ports	Two USB (version 2.0) / external DB-15 monitor / infrared (4Mbps) / RJ-11 (modem) / RJ-45 (ethernet) / parallel / IEEE 1394 (4-pin) / no serial, keyboard, or mouse ports												
Wireless antenna	UltraConnect™ antenna built into the display cover for optimal wireless signal reception												
Mini PCI	One Mini PCI type III slot (Communications Bay) / customer upgradeable												
Wireless upg <sup>36</sup>	Some: Wireless upgradable with wireless Mini PCI options												
11b Wi-Fi <sup>32</sup>	Some: 11b Wi-Fi <sup>32</sup> wireless <sup>4</sup> , Mini PCI, Intel PRO/Wireless 2100 Network Connection												
11a/b Wi-Fi <sup>27</sup>	Some: 11a/b Wi-Fi <sup>27</sup> wireless <sup>4</sup> , Mini PCI, Atheros™ AR5001X chipset												
CDC	One Communications Daughter Card (CDC) socket / customer accessible												
Modem	56K <sup>6</sup> V.90 (V.92-designed <sup>29</sup> ) modem in CDC / Agere® chipset												
Bluetooth™	Some: Bluetooth wireless technology / in CDC (with modem)												
Ethernet	10/100 ethernet on systemboard / Intel 82562EZ chipset (physical layer) / PXE												
Audio support	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]												
Security	Power-on password / dual hard disk password / supervisor pwr / security keyhole												
Security chip	IBM Embedded Security Subsystem 2.0 <sup>33</sup> / hardware key storage / multi-factor authentication / local file encryption / enhances VPN security <sup>16</sup> / TCG-compliant												
Limited warranty <sup>12</sup>	1 year - EasyServ™ <sup>19</sup> onsite pickup and delivery / service upgrades <sup>22</sup> avail												
128MB PC2100 DDR-SDRAM CL2.5 SOD	10K0028	IBM ThinkPad X3 UltraBase media slice		46P7912									
256MB PC2100 DDR-SDRAM CL2.5 SOD	10K0030	ThinkPad Port Replicator II		74P6733									
512MB PC2100 DDR-SDRAM CL2.5 SOD	10K0032	ThinkPad Mini Dock		287810U									
1GB PC2700 DDR-SDRAM CL2.5 SOD	31P9834	ThinkPad Dock II		287710U									
IBM USB Portable Diskette Drive	05K9276	ThinkPad X30 Series Li-Ion Battery (6-cell)		02K7039									
IBM Powered USB 2.0 Port Combo Drive	22P9194	ThinkPad X30 Series Extended Life Battery		02K7041									
20GB Hard Disk Drive 9.5 mm (4200 rpm)	08K9686	ThinkPad Multiple Battery Charger II		22P9040									
40GB HS Hard Disk 9.5mm (5400 rpm)	08K9816	ThinkPad Ultraportable 56W AC Adapter		02K6880									
80GB HS Hard Disk 9.5mm (5400 rpm)	09N4273	ThinkPad 72W AC/DC Combo Adapter		22P9010									
IBM USB 2.0 Memory Key 256MB	22P9228	ServicePac <sup>22</sup> , 22 1yr IOR 9x5 NBD		30L9188									
IBM USB 2.0 Memory Key 512MB	22P9230	ServicePac 2yr IOR 9x5 NBD		30L9189									
IBM 11a/b/g Wireless CardBus Adapter	31P9101	ServicePac 3yr IOR 9x5 NBD		30L9195									
IBM 11a/b/g Wireless Mini PCI Adapter	31P9701	ServicePac 2yr P&L P/U Depot		30L9191									
Intel PRO/Wireless 2200BG Mini PCI	73P2801	ServicePac 3yr P&L P/U Depot		30L9192									
SonyEricsson® GC83 EDGE PC Card	26K3393	ServicePac 5yr P&L P/U Depot		69P9197									
IBM M400 Projector	0037A04	Other options at <a href="http://ibm.com/pc/us/accessories">ibm.com/pc/us/accessories</a>											

See footnotes for important warranty information

US models announced on April 22 or May 6, 2003

US models withdrawn effective January 2004 or January 2005

\* Powered by Intel Centrino™ mobile technology

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See footnotes for important warranty information      \* Powered by Intel Centrino™ mobile technology      (X31BN) © IBM Corp. December 2004  
US models announced June 17, 2003  
US models withdrawn effective January 2004 or January 2005

# IBM® ThinkPad® X31 (2884) - Express (October 2003) - withdrawn

Created by IBM PC Institute  
Personal Systems Reference (PSREF)

Type-model	Processor	GHz	Memory	Screen	Disk	Optical	UltraBase	X3 UltraBase™	Mini PCI wireless	CDC: modem/Bluetooth™	Security chip	Ethernet planar	Preload	Avail date
2884-25U	Pentium® M	1.4	256MB	12.1" XGA	20GB <sup>8</sup>	DVD		X3 UltraBase	Open; wireless upg <sup>36</sup>	Modem	Yes	10/100 XP Pro	Oct 2003	
2884-2NU	Pentium M	1.4	256MB	12.1" XGA	20GB			Optional	Open; wireless upg	Modem	Yes	10/100 XP Pro	Oct 2003	
2884-2WU	Pentium M	1.4	256MB	12.1" XGA	20GB	Combo		X3 UltraBase *	Intel 11b Wi-Fi <sup>32</sup>	Modem	Yes	10/100 XP Pro	Oct 2003	
2884-NRU	Pentium M	1.6	256MB	12.1" XGA	40GB			Optional	* Intel 11b Wi-Fi	Modem	Yes	Gigabit XP Pro	Oct 2003	
• These small and medium business (SMB) models are part of the IBM US Think Express Program • The 2884 has a 1 year limited warranty														
Positioning Processor	Ultimate mobility in a versatile ultraportable; one spindle Intel® Pentium® M Processor 1.4 or 1.6GHz with enhanced Intel SpeedStep™ technology <sup>1</sup> and 400MHz system bus											SOFTWARE <sup>14</sup>		
L2 cache	1MB / on die (at processor speed) / ECC											Windows XP Pro models		
Memory	256MB std / 2GB max <sup>7</sup> / 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											- Microsoft® Windows® XP Professional <sup>20</sup> ♦ Disk-to-Disk Recovery (in hidden protected area)		
Diskette drive	None standard / use optional Ultrabay™-based (inX3) or USB-based diskette drive											Preloaded		
DVD	Some: DVD-ROM / 8X-3.3X <sup>9</sup> speed / bootable / removable from Ultrabay 2000 of X3											• Access IBM		
Combo	Some: DVD-ROM/CD-RW / 16X/10X/24X/8X <sup>21</sup> speed / removable from Ultrabay 2000											• Access Connections		
Ultrabay™ 2000	Supports Ultrabay 2000 devices in std or opt X3 UltraBase (or opt ThinkPad Dock II)											• Adobe Acrobat Reader		
Disk	20 or 40GB <sup>8</sup> , 4200 rpm, 9.5mm, ATA-100 / removable and upgradable / 9.5mm high bay											• IBM Rapid Restore™ Ultra		
Display	12.1" (308mm) XGA (1024x768) TFT color / Active Matrix / 150 nits / easy-open cover to unlatch and open with one hand (two latches)											• Norton AntiVirus (OEM edition)		
Graphics controller	ATI® Mobility RADEON® / AGP 4X / 16MB DDR-SDRAM											• PC-Doctor™		
Graphics - external	External monitor support via analog DB-15 connector / up to 1280x1024x16.7M at 85Hz											• ThinkPad Utilities		
Keyboard	Standard-size <sup>26</sup> 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 <sup>13</sup> / soft dome TrackPoint cap / ships with classic dome and soft rim TrackPoint cap											• IBM Update Connector™ <sup>15</sup>		
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions											• InterVideo WinDVD (combo, DVD)		
Dimensions <sup>3</sup>	without X3 UltraBase: 10.7" x 8.8" x .98-1.19"; 273mm x 223mm x 24.9-30.2mm											• RecordNow and DLA (combo model)		
Travel weight <sup>2</sup>	with X3 UltraBase and optical: 10.8" x 8.9" x 2.0-2.3"; 273 x 227 x 51-58mm											Downloadable		
Case material	with battery: 3.6 lb (1.65kg); with X3 UltraBase and optical: 5.6 lb (2.54kg)											• IBM Director Agent		
Battery - type	Color: black; All: titanium composite in the top cover / magnesium alloy bottom case											• Software Delivery Assistant		
Battery - life <sup>10</sup>	Li-Ion 6-cell / intelligent / supports opt Extended Life Battery on base (for two batteries) supports Ultrabay battery or optional 6-cell battery in X3 UltraBase (for two batteries) Up to 6 hrs; with std battery and optional Extended Life Battery: up to 10.1 hrs											• System Migration Assistant		
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 (Ricoch® R5C522 CardBus/1394 combo controller, Mini PCI, ext expansion) / LPC bus 33MHz (PC87392 Super I/O for infrared [dock-based diskette, serial, parallel])											License (CD not included)		
Media slice	Some: X3 UltraBase media slice (see right side)											- Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client		
Docking Station	Optional ThinkPad Dock or Dock II (includes Ultrabay 2000 and half-size PCI slot)											IBM ThinkPad X3 UltraBase™ (standard with 25U/2WU)		
Compact Flash slot	Compact Flash slot / 1 CF+ Type II / supports optional IBM Microdrive™											Right bay of X3 UltraBase supports most Ultrabay 2000 options:		
PC Card Std slot	One Type II / CardBus 32-bit / PCMCIA 2.1 / integrated door											• Optional battery, CD-ROM, CD-RW, DVD-ROM, Zip 250MB, Combo		
IEEE 1394	IEEE 1394 (FireWire) port (4-pin)											• Optional HDD adapter; for 2nd disk such as 80GB Hard Disk 9.5mm (4200 rpm) 08K9869		
Ports	Two USB (version 2.0) / external DB-15 monitor / infrared (4Mbps) / RJ-11 (modem) / RJ-45 (ethernet) / parallel / IEEE 1394 (4-pin) / no serial, keyboard, or mouse ports											• Ultrabay Plus-compatible		
Wireless antenna	UltraConnect™ antenna built into the display cover for optimal wireless signal reception											Ultrabay 2000 accessories:		
Mini PCI	One Mini PCI type III slot (Communications Bay) / customer upgradeable											• CD-RW/DVD Combo IV Ultrabay 2000 22P6991		
Wireless upg <sup>36</sup>	Some: wireless upgradeable with wireless Mini PCI options											• Second HDD Adptr for Ultrabay 2000 08K6068		
11b Wi-Fi <sup>32</sup>	Some: 11b Wi-Fi <sup>32</sup> wireless <sup>4</sup> , Mini PCI, Intel PRO/Wireless 2100 Network Connection 802.11b, Intel 82531 chipset											• ThinkPad Removable Diskette Drive 08K9603		
CDC	One Communications Daughter Card (CDC) socket / customer accessible											• Ultrabay 2000 Li-Ion battery 02K6646		
Modem	56K <sup>6</sup> V.90 (V.92-designed <sup>29</sup> ) modem in CDC / Agere® chipset											X3 UltraBase bottom contains:		
Bluetooth™	None											• Bay for X30 battery (same as X31)		
Ethernet	Some: 10/100 ethernet on systemboard / Intel 82562EZ chipset (physical layer) / PXE											Other features:		
Audio support	Some: Gigabit Ethernet on systemboard / Intel 82540EP chipset (MAC/PHY) / PXE											• Second battery support (for Ultrabay battery or second 6-cell battery)		
Security	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]											• Stereo speakers (1 watt)		
Security chip	Power-on password / dual hard disk password / supervisor password / security keyhole											• Security keyhole, UltraBase lock		
Limited warranty <sup>12</sup>	IBM Embedded Security Subsystem 2.0 <sup>33</sup> / hardware key storage / multi-factor authentication / local file encryption / enhances VPN security <sup>16</sup> / TCG-compliant											• Serial and parallel ports		
	1 year - EasyServ™ <sup>19</sup> onsite pickup and delivery / service upgrades <sup>22</sup> avail											• PS/2 mouse port		
	128MB PC2700 DDR-SDRAM CL2.5 SOD 31P9828											• Analog DB-15 monitor port		
	256MB PC2700 DDR-SDRAM CL2.5 SOD 31P9830											• One USB port (Ver 2.0 only on X31)		
	512MB PC2700 DDR-SDRAM CL2.5 SOD 31P9832											• Ethernet port and modem port		
	1GB PC2700 DDR-SDRAM CL2.5 SOD 31P9834											• Retractable feet; 1.41 lb; 638g		
	IBM USB Portable Diskette Drive 05K9816											56 watt AC Adapter		
	IBM USB 2.0 Portable CD-RW Drive 22P5297											Asset ID™ <sup>34</sup> (system-specific info in chip accessed over network)		
	30GB Hard Disk 9.5mm (4200 rpm) 09N4268											PC 2001-compliant		
	40GB HS Hard Disk 9.5mm (5400 rpm) 08K9816											ACPI 1.0b and 2.0-compliant		
	80GB Hard Disk Drive 9.5mm (4200 rpm) 08K9869											CIM and DMI 2.0-compliant		
	IBM 11a/b/g Wireless CardBus Adapter 31P9101											IBM Rapid Restore Ultra available to protect software image and data		
	IBM 11a/b/g Wireless Mini PCI Adapter 31P9701											International Warranty Service <sup>17</sup>		
	Intel PRO/Wireless 2100 3B Mini PCI 31P8601											24 hour x 7 day <sup>18</sup> toll-free hardware support during the warranty <sup>12</sup>		
	Cisco Aironet Wireless 802.11b Mini PCI 31P8301													
	Intel PRO/Wireless 2200BG Mini PCI 73P2801													
	IBM ThinkPad X3 UltraBase media slice 46P7912													
	ThinkPad Port Replicator II 74P6733													
	ThinkPad Mini Dock 287810U													
	ThinkPad Dock II 287710U													
	ThinkPad X30 Series Li-Ion Battery (6-cell) 02K7039													
	ThinkPad X30 Series Extended Life Battery 02K7041													
	ThinkPad Ultraportable 56W AC Adapter 02K6880													
	ThinkPad 72W AC/DC Combo Adapter 22P9010													
	ServicePac®, 22 1yr IOR 9x5 NBD 30L9188													
	ServicePac 3yr IOR 9x5 NBD 30L9195													
	ServicePac 5yr IOR 9x5 NBD 30L9196													
	ServicePac 3yr P&L P/U Depot 30L9192													
	ServicePac 5yr P&L P/U Depot 69P9197													
	Other options at <a href="http://ibm.com/pc/us/accessories">ibm.com/pc/us/accessories</a>													

See footnotes for important warranty information  
US models announced October 7, 2003  
US models withdrawn effective April 2004

\* Powered by Intel Centrino™ mobile technology

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Type-model	Processor	GHz	Memory	Screen	Disk	Optical	ThinkPad	Mini PCI	CDC: modem/	Security	Ethernet	Planar	Preload	Avail
						UltraBase	X3 UltraBase™	wireless	Bluetooth™	chip	planar			date
2885-PWU	Pentium® M	1.6	256MB	12.1" XGA	40GB <sup>8</sup>	Combo	X3 UltraBase	*Intel 11b Wi-Fi <sup>32</sup>	Modem	Yes	Gigabit XP Pro		Oct 2003	
2885-RGU	Pentium M	1.6	512MB	12.1" XGA	40HS	Combo	X3 UltraBase	11a/b/g Wi-Fi <sup>32</sup>	Modem	Yes	Gigabit XP Pro		Oct 2003	
• These small and medium business (SMB) models are part of the IBM US Think Express Program														
• The 2885 has a 3 year limited warranty														
Positioning Processor	Ultimate mobility in a versatile ultraportable; one spindle										SOFTWARE <sup>14</sup>			
L2 cache	Intel® Pentium® M Processor 1.6GHz with enhanced Intel SpeedStep™ technology <sup>1</sup> and 400MHz system bus										Windows XP Professional			
Memory	1MB / on die (at processor speed) / ECC										- Microsoft® Windows® XP Professional <sup>20</sup>			
	256 or 512MB std / 2GB max <sup>7</sup> / PC2700 333MHz DDR1 (memory controller limits speed to 266MHz) / non-parity / CL2.5 / two 200-pin SO-DIMM sockets / std memory in one socket / one socket available										◇ Disk-to-Disk Recovery (in hidden protected area)			
Diskette drive	None standard / use optional Ultrabay™-based (inX3) or USB-based diskette drive										Preloaded			
Combo	DVD-ROM/CD-RW / 16X/10X/24X/8X <sup>21</sup> speed / removable from Ultrabay 2000										• Access IBM			
Ultrabay™ 2000	Supports Ultrabay 2000 devices in standard X3 UltraBase (or optional ThinkPad Dock II)										• Access Connections			
Disk	40GB <sup>8</sup> (4200 rpm) or 40GB (HS 5400 rpm), 9.5mm, ATA-100 / removable and upgradable / 9.5mm high bay										• Adobe Reader			
Display	12.1" (308mm) XGA (1024x768) TFT color / Active Matrix / 150 nits / easy-open cover to unlatch and open with one hand (two latches)										• IBM Rapid Restore™ Ultra			
Graphics controller	ATI® Mobility RADEON® / AGP 4X / 16MB DDR1 (DDR-SDRAM)										• Norton AntiVirus (OEM edition)			
Graphics - external	External monitor support via analog DB-15 connector / up to 1280x1024x16.7M at 85Hz										• PC-Doctor™			
Keyboard	Standard-size <sup>26</sup> keys / 97% size of T Series / 87-key / 18.5mm pitch; 2.5mm stroke / Access IBM button / palm rest / TrackPoint®, "Press-to-Select," Internet Scroll Bar <sup>13</sup> / soft dome TrackPoint cap / ships with classic dome and soft rim TrackPoint cap										• ThinkPad Utilities			
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions										• IBM Update Connector™ <sup>15</sup>			
Dimensions <sup>3</sup>	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)										• InterVideo WinDVD			
Travel weight <sup>2</sup>											• RecordNow and DLA			
Case material	Color: black; All: titanium composite in the top cover / magnesium alloy bottom case										Downloadable			
Battery - type	Li-Ion 6-cell / intelligent / supports opt Extended Life Battery on base (for two batteries) supports Ultrabay battery or optional 6-cell battery in X3 UltraBase (for two batteries)										• IBM Director Agent			
Battery - life <sup>10</sup>	Up to 5.5 hrs; with std battery and optional Extended Life Battery: up to 10.1 hrs										• Software Delivery Assistant			
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])										• System Migration Assistant			
Media slice	X3 UltraBase media slice (see right side)										• Client Security Software (for security chip)			
Docking Station	Optional ThinkPad Dock or Dock II (includes Ultrabay 2000 and half-size PCI slot)										License (CD not included)			
Compact Flash slot	Compact Flash slot / 1 CF+ Type II / supports optional IBM Microdrive™										- Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client			
PC Card Std slot	One Type II / CardBus 32-bit / PCMCIA 2.1 / integrated door													
IEEE 1394	IEEE 1394 (FireWire) port (4-pin)													
Ports	Two USB (version 2.0) / external DB-15 monitor / infrared (4Mbps) / RJ-11 (modem) / RJ-45 (ethernet) / parallel / IEEE 1394 (4-pin) / no serial, keyboard, or mouse ports													
Wireless antenna	UltraConnect™ antenna built into the display cover for optimal wireless signal reception										IBM ThinkPad X3 UltraBase™ (standard with PWU/RGU)			
Mini PCI	One Mini PCI type III slot (Communications Bay) / customer upgradeable										Right bay of X3 UltraBase supports most Ultrabay 2000 options:			
11b Wi-Fi <sup>32</sup>	Some: 11b Wi-Fi <sup>32</sup> wireless <sup>4</sup> , Mini PCI, Intel PRO/Wireless 2100 Network Connection 802.11b, Intel 82531 chipset										• Optional battery, CD-ROM, CD-RW, DVD-ROM, Zip 250MB, Combo			
11a/b/g Wi-Fi <sup>32</sup>	Some: 11a/b/g Wi-Fi <sup>32</sup> wireless <sup>4</sup> , Mini PCI, Atheros™ AR5001X+ chipset										• Optional HDD adapter; for 2nd disk such as 80GB HS Hard Disk 9.5mm (5400 rpm) 09N4273			
CDC	One Communications Daughter Card (CDC) socket / customer accessible										• Ultrabay Plus-compatible			
Modem	56K <sup>6</sup> V.90 (V.92-designed <sup>29</sup> ) modem in CDC / Agere® chipset										Ultrabay 2000 accessories:			
Bluetooth™	None										• CD-RW/DVD Combo IV Ultrabay 2000 22P6991			
Ethernet	Gigabit Ethernet on systemboard / Intel 82540EP chipset (MAC/PHY) / PXE										• Second HDD Adapter for Ultrabay 2000 08K6068			
Audio support	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]										• ThinkPad Removable Diskette Drive 08K9603			
Security	Power-on password / dual hard disk password / supervisor password / security keyhole										• Ultrabay 2000 Li-Ion battery 02K6646			
Security chip	IBM Embedded Security Subsystem 2.0 <sup>33</sup> / hardware key storage / multi-factor authentication / local file encryption / enhances VPN security <sup>16</sup> / TCG-compliant										• Multi-Burner Plus Ultrabay Enhanced Drive 73P3312			
Limited warranty <sup>12</sup>	3 years/1 yr battery - EasyServ™ <sup>19</sup> onsite pickup and delivery / service upgrades <sup>22</sup> avail										X3 UltraBase bottom contains:			
128MB PC2700 DDR-SDRAM CL2.5 SOD	31P9828	IBM ThinkPad X3 UltraBase media slice						46P7912	Other features:					
256MB PC2700 DDR-SDRAM CL2.5 SOD	31P9830	ThinkPad Port Replicator II						74P6733	• Second battery support (for Ultrabay battery or second 6-cell battery)					
512MB PC2700 DDR-SDRAM CL2.5 SOD	31P9832	ThinkPad Mini Dock						287810U	• Stereo speakers (1 watt)					
1GB PC2700 DDR-SDRAM CL2.5 SOD	31P9834	ThinkPad Dock II						287710U	• Security keyhole, UltraBase lock					
IBM USB Portable Diskette Drive	05K9276	ThinkPad X30 Series Li-Ion Battery (6-cell)						02K7039	• Serial and parallel ports					
IBM Powered USB 2.0 Port Combo Drive	22P9194	ThinkPad X30 Series Extended Life Battery						02K7041	• PS/2 mouse port					
IBM USB 2.0 Portable 40GB Hard Disk	22P7196	ThinkPad Multiple Battery Charger II						22P9040	• Analog DB-15 monitor port					
30GB Hard Disk 9.5mm (4200 rpm)	09N4268	ThinkPad Ultraportable 56W AC Adapter						02K6880	• One USB port (Ver 2.0 only on X31)					
40GB HS Hard Disk 9.5mm (5400 rpm)	08K9816	ThinkPad 72W AC/DC Combo Adapter						22P9010	• Ethernet port and modem port					
80GB HS Hard Disk 9.5mm (5400 rpm)	09N4273	IBM Travel USB Keyboard with UltraNav						31P9493	• Retractable feet; 1.41 lb; 638g					
IBM USB 2.0 Memory Key 256MB	22P9228	ServicePac® <sup>22</sup> 2yr IOR 9x5 NBD						30L9190	56 watt AC Adapter					
IBM USB 2.0 Memory Key 512MB	22P9230	ServicePac 3yr IOR 9x5 NBD						30L9197	Asset ID™ <sup>34</sup> (system-specific info in chip accessed over network)					
IBM 11a/b/g Wireless CardBus Adapter	31P9101	ServicePac 4yr IOR 9x5 NBD						69P9198	PC 2001-compliant					
IBM 11a/b/g Wireless Mini PCI Adapter	31P9701	ServicePac 5yr IOR 9x5 NBD						69P9200	ACPI 1.0b and 2.0-compliant					
Intel PRO/Wireless 2200BG Mini PCI	73P2801	ServicePac 4yr P&L P/U Depot						69P9199	CIM and DMI 2.0-compliant					
SonyEricsson® GC83 EDGE PC Card	26K3393	ServicePac 5yr P&L P/U Depot						69P9201	IBM Rapid Restore Ultra available to protect software image and data					
IBM M400 Projector	0037A04	Other options at ibm.com/pc/us/accessories							International Warranty Service <sup>17</sup>					
														24 hour x 7 day <sup>18</sup> toll-free warranty support during the warranty <sup>12</sup>

Type-model	Processor	GHz	Memory	Screen	Disk	Optical	ThinkPad	Mini PCI	CDC: modem/	Security	Ethernet	Preload	Avail
UltraBase	X3 UltraBase™	wireless	Bluetooth™	chip	planar								date
2885-4LU	Pentium® M 1.7	256MB	12.1" XGA	40HS	Combo	X3 UltraBase	*Intel 11b Wi-Fi <sup>32</sup>	Modem	Yes	Gigabit XP Pro	Feb 2004		
2885-4WU	Pentium M 1.7	512MB	12.1" XGA	40HS	Combo	X3 UltraBase	IBM 11b/g <sup>32</sup>	Modem	Yes	Gigabit XP Pro	Feb 2004		
• These small and medium business (SMB) models are part of the IBM US Think Express Program													
• The 2885 has a 3 year limited warranty													
Positioning Processor	Ultimate mobility in a versatile ultraportable; one spindle									SOFTWARE <sup>14</sup>			
L2 cache	Intel® Pentium® M Processor 1.7GHz with enhanced Intel SpeedStep™ technology <sup>1</sup> and 400MHz system bus									Windows XP Professional			
Memory	1MB / on die (at processor speed) / ECC									- Microsoft® Windows® XP Professional <sup>20</sup>			
Diskette drive	256 or 512MB std / 2GB max <sup>7</sup> / PC2700 333MHz DDR1 (memory controller limits speed to 266MHz) / non-parity / CL2.5 / two 200-pin SO-DIMM sockets / std memory in one socket / one socket available									◇ Disk-to-Disk Recovery (in hidden protected area)			
Combo	None standard / use optional Ultrabay™-based (inX3) or USB-based diskette drive									Preloaded			
Ultrabay™ 2000	DVD-ROM/CD-RW / 16X/10X/24X/8X <sup>21</sup> speed / removable from Ultrabay 2000 in X3 UltraBase									• Access IBM			
Disk	Supports Ultrabay 2000 devices in standard X3 UltraBase (or optional ThinkPad Dock II)									• Access Connections			
Display	40GB <sup>8</sup> (HS 5400 rpm), 9.5mm, ATA-100 / removable and upgradable / 9.5mm high bay									• Adobe Reader			
Graphics controller	12.1" (308mm) XGA (1024x768) TFT color / Active Matrix / 150 nits / easy-open cover to unlatch and open with one hand (two latches)									• IBM Rapid Restore™ Ultra			
Graphics - external	ATI® Mobility RADEON® / AGP 4X / 16MB DDR1 (DDR-SDRAM)									• Norton AntiVirus (OEM edition)			
Keyboard	Standard-size <sup>26</sup> keys / 97% size of T Series / 87-key / 18.5mm pitch; 2.5mm stroke / Access IBM button / palm rest / TrackPoint®, "Press-to-Select," Internet Scroll Bar <sup>13</sup> / soft dome TrackPoint cap / ships with classic dome and soft rim TrackPoint cap									• PC-Doctor™			
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions									• ThinkPad Utilities			
Dimensions <sup>3</sup>	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)									• IBM Update Connector™ <sup>15</sup>			
Travel weight <sup>2</sup>	Color: black; All: titanium composite in the top cover / magnesium alloy bottom case									• InterVideo WinDVD			
Case material	Li-Ion 6-cell / intelligent / supports opt Extended Life Battery on base (for two batteries)									• RecordNow and DLA			
Battery - type	supports Ultrabay battery or optional 6-cell battery in X3 UltraBase (for two batteries)									Downloadable			
Battery - life <sup>10</sup>	Up to 5.5 hrs; with std battery and optional Extended Life Battery: up to 10.1 hrs									• IBM Director Agent			
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])									• Software Delivery Assistant			
Media slice	X3 UltraBase media slice (see right side)									• System Migration Assistant			
Docking Station	Optional ThinkPad Dock or Dock II (includes Ultrabay 2000 and half-size PCI slot)									• Client Security Software (for security chip)			
Compact Flash slot	Compact Flash slot / 1 CF+ Type II / supports optional IBM Microdrive™									License (CD not included)			
PC Card Std slot	One Type II / CardBus 32-bit / PCMCIA 2.1 / integrated door									- Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client			
IEEE 1394	IEEE 1394 (FireWire) port (4-pin)									IBM ThinkPad X3 UltraBase™ (standard with 4LU/4WU)			
Ports	Two USB (version 2.0) / external DB-15 monitor / infrared (4Mbps) / RJ-11 (modem) / RJ-45 (ethernet) / parallel / IEEE 1394 (4-pin) / no serial, keyboard, or mouse ports									Right bay of X3 UltraBase supports most Ultrabay 2000 options:			
Wireless antenna	UltraConnect™ antenna built into the display cover for optimal wireless signal reception									• Optional battery, CD-ROM, CD-RW, DVD-ROM, Zip 250MB, Combo			
Mini PCI	One Mini PCI type III slot (Communications Bay) / customer upgradeable									• Optional HDD adapter; for 2nd disk such as 80GB HS Hard Disk 9.5mm (5400 rpm) 09N4273			
11b Wi-Fi <sup>32</sup>	Some: 11b Wi-Fi <sup>32</sup> wireless <sup>4</sup> , Mini PCI, Intel PRO/Wireless 2100 Network Connection									• Ultrabay Plus-compatible			
IBM 11b/g <sup>32</sup>	Some: IBM 11b/g Wi-Fi <sup>32</sup> wireless <sup>4</sup> , Mini PCI, Atheros™ AR5004G chipset									Ultrabay 2000 accessories:			
CDC	One Communications Daughter Card (CDC) socket / customer accessible									• CD-RW/DVD Combo IV Ultrabay 2000 22P6991			
Modem	56K <sup>6</sup> V.90 (V.92-designed <sup>29</sup> ) modem in CDC / Agere® chipset									• Second HDD Adapter for Ultrabay 2000 08K6068			
Bluetooth™	None									• ThinkPad Removable Diskette Drive 08K9603			
Ethernet	Gigabit Ethernet on systemboard / Intel 82540EP chipset (MAC/PHY) / PXE									• Ultrabay 2000 Li-Ion battery 02K6646			
Audio support	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]									• Multi-Burner Plus Ultrabay Enhanced Drive 73P3312			
Security	Power-on password / dual hard disk password / supervisor password / security keyhole									X3 UltraBase bottom contains:			
Security chip	IBM Embedded Security Subsystem 2.0 <sup>33</sup> / hardware key storage / multi-factor authentication / local file encryption / enhances VPN security <sup>16</sup> / TCG-compliant									• Bay for X30 battery (same as X31)			
Limited warranty <sup>12</sup>	3 years/1 yr battery - EasyServ™ <sup>19</sup> onsite pickup and delivery / service upgrades <sup>22</sup> avail									Other features:			
128MB PC2700 DDR-SDRAM CL2.5 SOD	31P9828	IBM ThinkPad X3 UltraBase media slice		46P7912									
256MB PC2700 DDR-SDRAM CL2.5 SOD	31P9830	ThinkPad Port Replicator II		74P6733									
512MB PC2700 DDR-SDRAM CL2.5 SOD	31P9832	ThinkPad Mini Dock		287810U									
1GB PC2700 DDR-SDRAM CL2.5 SOD	31P9834	ThinkPad Dock II		287710U									
IBM USB Portable Diskette Drive	05K9276	ThinkPad X30 Series Li-Ion Battery (6-cell)		02K7039									
IBM Powered USB 2.0 Port Combo Drive	22P9194	ThinkPad X30 Series Extended Life Battery		02K7041									
IBM USB 2.0 Portable Multi-Burner	22P9163	ThinkPad Multiple Battery Charger II		22P9040									
IBM USB 2.0 Memory Key 512MB	22P9230	ThinkPad Ultraportable 56W AC Adapter		02K6880									
30GB Hard Disk 9.5mm (4200 rpm)	09N4268	ThinkPad 72W AC/DC Combo Adapter		22P9010									
40GB HS Hard Disk 9.5mm (5400 rpm)	08K9816	IBM USB Travel Keyboard with UltraNav		31P9490									
80GB HS Hard Disk 9.5mm (5400 rpm)	09N4273	ServicePac® <sup>22</sup> 2yr IOR 9x5 NBD		30L9190									
ThinkPad Monitor Stand 2001	22P5265	ServicePac 3yr IOR 9x5 NBD		30L9197									
IBM 11a/b/g Wireless CardBus Adapter	31P9101	ServicePac 4yr IOR 9x5 NBD		69P9198									
IBM 11a/b/g Wireless Mini PCI Adapter	31P9701	ServicePac 5yr IOR 9x5 NBD		69P9200									
Intel PRO/Wireless 2200BG Mini PCI	73P2801	ServicePac 4yr P&L P/U Depot		69P9199									
IBM E400 Projector	0038A04	ServicePac 5yr P&L P/U Depot		69P9201									
IBM M400 Projector	0037A04	Other options at <a href="http://ibm.com/pc/us/accessories">ibm.com/pc/us/accessories</a>											
56 watt AC Adapter													
Asset ID™ <sup>34</sup> (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 <sup>17</sup>													
24 hour x 7 day <sup>18</sup> toll-free warranty support during the warranty <sup>12</sup>													

See footnotes for important warranty information  
US models announced February 10, 2004  
US models withdrawn effective January 2005

\* Powered by Intel Centrino™ mobile technology

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