

Type-model	Processor	Speed	Memory	Screen	Disk	Optical	Mini PCI Communications Bay	CDC Modem	Ethernet on planar	Preload	Workhorse or Global model	Avail date
2656-2BU	Celeron™	900	64MB <sup>11</sup>	13.3" XGA	10GB CD-ROM	802.11b/modem	Open	Modem	10/100	Windows® 98 SE		Oct 2001
2656-22U	Celeron	900	64MB	13.3" XGA	10GB CD-ROM	Open	Modem	Modem	10/100	Windows 98 SE		Oct 2001
2656-32U	Pentium® III	1.0	128MB	13.3" XGA	15GB CD-ROM	Open	Modem	Modem	10/100	Windows 98 SE		Oct 2001
2656-5BU	Pentium III	1.0	128MB	13.3" XGA	15GB CD-RW	802.11b/modem	Open	Modem	10/100	Windows 98 SE		Oct 2001
2656-62U	Pentium III	1.0	128MB	14.1" XGA	30GB DVD-ROM	Open	Modem	Modem	10/100	Windows 98 SE	Workhorse/Global	Oct 2001
2656-7BU	Pentium III	1.0	128MB	14.1" XGA	30GB CD-RW	802.11b/modem	Open	Modem	10/100	Windows 98 SE		Oct 2001
2656-82U**	Pentium III	1.0	256MB	14.1" XGA	30GB DVD-ROM	Open	Modem	Modem	10/100	Windows 98 SE	Workhorse/Global	Dec 2001

Positioning Processor	Best blend of portability and essential features; two-spindle system <b>Intel® Mobile Celeron™ 900MHz with 100MHz Front Side Bus or Intel Mobile Pentium® III 1.0GHz<sup>7</sup> with Speedstep™ Technology with 100MHz Front Side Bus</b>										<b>SOFTWARE<sup>14</sup></b> <b>Windows 98 models</b> - Microsoft® Windows® 98 Second Edition ✧ Disk-to-Disk Recovery (in hidden Service Partition) <b>INCLUDED SOFTWARE<sup>14</sup> (all)</b> <b>Preloaded</b> <ul style="list-style-type: none"><li>• Access ThinkPad</li><li>• Adobe® Acrobat</li><li>• ConfigSafe®</li><li>• Mediamatics™ DVD (DVD models)</li><li>• MusicMatch Jukebox</li><li>• PC-Doctor™</li><li>• ThinkPad Assistant™</li><li>• ThinkPad Utilities</li><li>• IBM Update Connector™<sup>15</sup></li><li>• Veritas RecordNOW (CD-RW mod)</li></ul> <b>Downloadable</b> <ul style="list-style-type: none"><li>• IBM Rapid Restore PC</li><li>• IBM Data Transfer</li><li>• Universal Manageability Services™</li></ul> <b>License</b> - Lotus® SmartSuite® Millennium	
L2 cache	Celeron: <b>128KB</b> / onboard (at processor speed) / ECC Pentium III: <b>256KB</b> / onboard (at processor speed) / ECC											
Memory	<b>64MB, 128MB or 256MB<sup>8</sup></b> standard / 1GB maximum / SDRAM / non-parity / 100MHz (chipset limits to 100MHz although 133MHz SO-DIMMs used) / PC 133 / 3.3v / two 144-pin SO-DIMM sockets / std mem in one socket / one socket available											
Diskette drive CD-ROM CD-RW DVD-ROM Ultrabay 2000 Disk	None standard / use optional Ultrabay™-based or USB-based diskette drive <i>Some: CD-ROM / 24X-10X<sup>10</sup> speed / bootable / removable from Ultrabay™ Plus</i> <i>Some: CD-RW / 8X/4X/24X<sup>10</sup> Max / removable from Ultrabay Plus</i> <i>Some: DVD-ROM / 8X-3.3X<sup>10</sup> speed / removable from Ultrabay Plus</i> One modular bay for interchangeable devices (right side) / <b>Ultrabay Plus-compatible 10, 15, or 30GB<sup>9</sup></b> (4200 rpm) / upgradeable / S.M.A.R.T. / supports 2nd disk with optional HDD Adapter in Ultrabay											
Display	<i>Some: 13.3" (337.8mm) XGA (1024x768) TFT color / Active Matrix</i> <i>Some: 14.1" (358.1mm) XGA (1024x768) TFT color / Active Matrix</i> <b>All: Easy-open cover to unlatch and open with one hand</b>											
Graphics controller	Trident® CyberBLADE™ Aladdin <sup>1</sup> 2X AGP 3D / 8MB <sup>11</sup> SDRAM / Unified Memory Architecture / controller in M1632M Northbridge											
Graphics - external	External SVGA to various modes such as 16.7 million colors, 85Hz, or 1600x1200											
Keyboard	87-key / ThinkPad Button / palm rest / TrackPoint®, "Press-to-Select," Internet Scroll Bar / pitch: 19mm; stroke: 2.7mm											
ThinkLight™ UltraPort™	Illuminates the keyboard to improve visibility in low-light conditions None											
Dimensions <sup>14</sup> Approximate weight <sup>2</sup>	12.3" x 10.0" x 1.42" with optical drive and battery: <i>CD-ROM models: 5.7 lbs; DVD models: 5.8 lbs; CD-RW models: 5.9 lbs</i>											
Case material Battery - type Battery - life <sup>13</sup>	<i>Color: black; All: ABS plastic</i> Lithium Ion 6-cell / intelligent / no second battery in Ultrabay Plus 2.5 hrs to 3.0 hrs depending on model											
Architecture	<b>ALi chipset / M1632M Northbridge</b> (memory, graphics, PCI, Mini PCI) / <b>M1535 Southbridge</b> (IDE, USB, parallel, audio, power management) / PCI 2.1, 32-bit 33MHz / O2® Micro OZ6912 for CardBus Optional <b>ThinkPad Port Replicator</b> (no ThinkPad Dock support) One Type II or one Type III / CardBus 32-bit / PCMCIA 2.1 / no Zoomed Video Two USB (Version 1.1) / parallel / external DB-15 monitor / infrared (4Mbps) / RJ-11 (modem) / RJ-45 (ethernet) / no keyboard or mouse or serial port											
Port Replicator PC Card Std slots Ports												
Video out Mini PCI CDC Modem 802.11b/modem	S-video out / one industry standard connector One Mini PCI IIIb slot (Communications Bay) / not customer upgradeable One Communications Daughter Card (CDC) socket (open or modem) / not accessible <i>Some: 56K<sup>6</sup> V.90 (V.92-capable<sup>29</sup>) CDC modem card / Lucent® chip set</i> <i>Some: Mini PCI 802.11b wireless<sup>4</sup>, Intersil® Prism 2.5 chipset, antennas in side of display and base, Wi-Fi-certified / 56K<sup>12</sup> V.90<sup>29</sup> modem combo, Lucent® chipset</i>										<b>Ultrabay Plus</b> integrated modular bay supports most Ultrabay 2000 devices including CD-RW/DVD Combo drive, diskette drive, or Zip drive; the optional Ultrabay Plus Device Carrier adds potential functionality by supporting the Ultrabay Plus Numeric Keypad and Cradle for the WorkPad® c500 Series	
Ethernet Audio support	10/100 ethernet on planar / Intel® 82550GY chipset Soft audio / SoundBlaster-compatible / Realtek® ALC200 AC97 codec / stereo speakers / 1 watt / volume up, down, mute buttons / no internal microphone / microphone input jack (3.5 mm) / headphone jack (3.5 mm)											
Security	Power-on password / hard disk password / supervisor password / security keyhole											
Limited warranty* <sup>22</sup>	<b>1 year - EasyServ™<sup>25</sup> onsite pickup and delivery / warranty service upgrades<sup>21</sup></b>											
64MB SO DIMM 133MHz NP SDRAM 128MB SO DIMM 133MHz NP SDRAM 256MB SO DIMM 133MHz NP SDRAM 512MB SO DIMM 133MHz NP SDRAM SuperDisk (LS-240) UltraBay 2000 Zip 250MB Ultrabay 2000 Drive 24X-10X CD-ROM Ultrabay 2000 Drive 8X/4X/24X Max CD-RW Ultrabay 2000 8X-3X DVD Ultrabay 2000 Drive CD-RW/DVD Combo Ultrabay 2000 Travel Bezel for Ultrabay 2000 Second HDD Adapter for Ultrabay 2000 IBM ThinkPad Ultrabay Plus Carrier IBM ThinkPad Ultrabay Plus c500 Cradle ThinkPad Ultrabay Plus Numeric Keypad	19K4650 19K4652 19K4654 19K4656 08K9616 00N8253 05K9233 08K9569 27L3448 08K9572 08K6070 08K6068 22P5737 22P5738 22P7330	USB Portable Diskette Drive ThinkPad Removable Diskette Drive ThinkPad R30 Series Li-Ion Battery ThinkPad 72W AC Adapter ThinkPad 72W DC Auto Adapter ThinkPad Port Replicator Portable Drive Bay 2000 (accepts Ultrabay 2000 media and storage devices) 15GB Hard Disk Drive 30GB Hard Disk Drive 48GB Hard Disk Drive ServicePac® <sup>21</sup> 1yr IOR 9x5 NBD ServicePac 2yr IOR 9x5 NBD ServicePac 3yr IOR 9x5 NBD ServicePac 2yr P&L P/U Depot ServicePac 3yr P&L P/U Depot	05K9276 08K9603 02K6821 02K6699 10K3820 02K8667 19K4480 08K9588 08K9593 08K9600 30L9188 30L9189 30L9195 30L9191 30L9192	Universal 72 watt AC adapter PC 2001-compliant CIM and DMI 2.0-compliant Wired for Management 2.0 IBM ImageUltra Services available IBM Rapid Restore PC available to protect software image and data Personalized Web-based support <sup>23</sup> Setup Guide, Service and Troubleshooting Guide, Windows manual International Warranty Service <sup>24</sup> 24 hour x 7 day <sup>1</sup> toll-free hardware support during the warranty								

\* For a copy of IBM's Statement of Limited Warranty, call 1-800-772-2227

\*\* Special ordering only

US models announced October 9 or November 27, 2001

US models withdrawn effective April 2002

 No warranties are expressed or implied in this summary  
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Type-model	Processor	Speed	Memory	Screen	Disk	Optical	Mini PCI Communications Bay	CDC Modem	Ethernet on planar	Preload	Small business software	Workhorse (W) or Global (G) model	Avail date
2656-A0U	Celeron™	900	64MB <sup>11</sup>	13.3" XGA	10GB CD-ROM	Open	Open	Modem	10/100	Windows® 2000			Oct 2001
2656-A1U	Celeron	900	64MB	13.3" XGA	10GB CD-ROM	Open	802.11b/modem		10/100	Windows 2000			Oct 2001
2656-B0U	Pentium® III	1.0	128MB	13.3" XGA	15GB CD-ROM	Open	Open	Modem	10/100	Windows 2000			Oct 2001
2656-DAU	Pentium III	1.0	128MB	13.3" XGA	15GB CD-RW	Open	802.11b/modem		10/100	Windows 2000			Oct 2001
2656-E0U	Pentium III	1.0	128MB	14.1" XGA	30GB DVD-ROM	Open	Open	Modem	10/100	Windows 2000			Oct 2001
2656-EAU	Pentium III	1.0	128MB	14.1" XGA	30GB CD-RW	Open	802.11b/modem		10/100	Windows 2000			Oct 2001
2656-A3U	Celeron	900	64MB	13.3" XGA	10GB CD-ROM	Open	Open	Modem	10/100	Windows 2000	Office XP SB <sup>18</sup>		Oct 2001
2656-2AU	Celeron	900	128MB	13.3" XGA	10GB CD-ROM	Open	802.11b/modem		10/100	XP Home			Nov 2001
2656-20U	Celeron	900	128MB	13.3" XGA	10GB CD-ROM	Open	Open	Modem	10/100	XP Home			Nov 2001
2656-30U	Pentium III	1.0	128MB	13.3" XGA	15GB CD-ROM	Open	Open	Modem	10/100	XP Home			Nov 2001
2656-5AU	Pentium III	1.0	128MB	13.3" XGA	15GB CD-RW	Open	802.11b/modem		10/100	XP Home			Nov 2001
2656-60U	Pentium III	1.0	128MB	14.1" XGA	30GB DVD-ROM	Open	Open	Modem	10/100	XP Home			Nov 2001
2656-6AU	Pentium III	1.0	128MB	14.1" XGA	30GB CD-RW	Open	802.11b/modem		10/100	XP Home			Nov 2001
2656-61U	Pentium III	1.0	128MB	14.1" XGA	30GB DVD-ROM	Open	Open	Modem	10/100	XP Home	Office XP SB		Nov 2001
2656-6BU	Pentium III	1.0	128MB	14.1" XGA	30GB CD-RW	Open	802.11b/modem		10/100	XP Home	Office XP SB		Nov 2001
Positioning Processor	Best blend of portability and essential features; two-spindle system Intel® Mobile Celeron™ 900MHz with 100MHz Front Side Bus or Intel Mobile Pentium® III 1.0GHz <sup>7</sup> with Speedstep™ Technology with 100MHz Front Side Bus										SOFTWARE <sup>15</sup>		
L2 cache	Celeron: 128KB / at processor speed; Pentium III: 256 KB / at processor speed										Windows XP Home models		
Memory	64MB or 128MB <sup>9</sup> standard / 1GB maximum / SDRAM / non-parity / 100MHz / PC 133 / 3.3v / two 144-pin SO-DIMM sockets / std mem in one socket / one socket available										- Microsoft® Windows® XP Home ✧ Disk-to-Disk Recovery (in hidden Service Partition)		
Diskette drive	None standard / use optional Ultrabay™-based or USB-based diskette drive										Windows 2000 models		
CD-ROM	Some: CD-ROM / 24X-10X <sup>10</sup> speed / bootable / removable from Ultrabay™ Plus										- Microsoft Windows 2000 Professional		
CD-RW	Some: CD-RW / 8X/4X/24X <sup>10</sup> Max / removable from Ultrabay Plus										- ConfigSafe®		
DVD-ROM	Some: DVD-ROM / 8X-3.3X <sup>10</sup> speed / removable from Ultrabay Plus										✧ Disk-to-Disk Recovery (in hidden Service Partition)		
Ultrabay 2000	One modular bay for interchangeable devices (right side) / Ultrabay Plus-compatible										INCLUDED SOFTWARE <sup>17</sup> (all)		
Disk	10, 15, or 30GB <sup>8</sup> (4200 rpm) / upgradeable / S.M.A.R.T. / supports 2nd disk with optional HDD Adapter in Ultrabay										Preloaded		
Display	Some: 13.3" (337.8mm) XGA (1024x768) TFT color / Active Matrix Some: 14.1" (358.1mm) XGA (1024x768) TFT color / Active Matrix All: Easy-open cover to unlatch and open with one hand										• Access ThinkPad - Access Connections - Access Help		
Graphics controller	Trident® CyberBLADE™ Alladin1 2X AGP 3D / 8MB <sup>11</sup> SDRAM / Unified Memory Architecture / controller in M1632M Northbridge										• Adobe® Acrobat		
Graphics - external	External SVGA to various modes such as 16.7 million colors, 85Hz, or 1600x1200										• Mediamatics™ DVD (DVD models)		
Keyboard	87-key / ThinkPad Button / palm rest / TrackPoint®, "Press-to-Select," Internet Scroll Bar / pitch: 19mm; stroke: 2.7mm										• MusicMatch Jukebox		
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions										• PC-Doctor™		
UltraPort™	None										• ThinkPad Assistant™		
Dimensions <sup>14</sup>	12.3" x 10.0" x 1.42"										• ThinkPad Utilities		
Approximate weight <sup>12</sup>	with optical drive and battery: CD-ROM models: 5.7 lbs; DVD models: 5.8 lbs; CD-RW models: 5.9 lbs										• IBM Update Connector™ <sup>19</sup>		
Case material	Color: black; All: ABS plastic										• Veritas RecordNOW (CD-RW mod)		
Battery - type	Lithium Ion 6-cell / intelligent / no second battery in Ultrabay Plus										Downloadable		
Battery - life <sup>13</sup>	2.5 hrs to 3.0 hrs depending on model										• IBM Rapid Restore PC		
Architecture	ALi chipset / M1632M Northbridge (memory, graphics, PCI, Mini PCI) / M1535 Southbridge (IDE, USB, parallel, audio, power management) / PCI 2.1, 32-bit 33MHz / O2® Micro OZ6912 for CardBus										• IBM Data Transfer		
Port Replicator	Optional ThinkPad Port Replicator (no ThinkPad Dock support)										• Universal Manageability Services™		
PC Card Std slots	One Type II or one Type III / CardBus 32-bit / PCMCIA 2.1 / no Zoomed Video										• Veritas RecordNOW (CD-RW mod)		
Ports	Two USB (Version 1.1) / parallel / external DB-15 monitor / infrared (4Mbps) / RJ-11 (modem) / RJ-45 (ethernet) / no keyboard or mouse or serial port										License		
Video out	S-video out / one industry standard connector										- Lotus® SmartSuite® Millennium		
Mini PCI	One Mini PCI IIIb slot (Communications Bay) / not customer upgradeable										Office XP Small Business models only		
CDC	One Communications Daughter Card (CDC) socket (open or modem) / not accessible										- Microsoft Office XP Small Business <sup>18</sup> (Word, Excel, Outlook, Publisher, Small Business Tools)		
Modem	Some: 56K <sup>6</sup> V.90 (V.92-capable <sup>29</sup> ) CDC modem card / Lucent® chip set										✧ Office XP Small Business CD		
802.11b/modem	Some: Mini PCI 802.11b wireless <sup>4</sup> , Intersil® Prism 2.5 chipset, antennas in side of display and base, Wi-Fi-certified / 56K <sup>12</sup> V.90 <sup>29</sup> modem combo, Lucent® chipset										Ultrabay Plus integrated modular bay supports most Ultrabay 2000 devices including CD-RW/DVD		
Ethernet	10/100 ethernet on planar / Intel® 82550GY chipset										Combo drive, diskette drive, or Zip drive; the optional Ultrabay Plus		
Audio support	Soft audio / SoundBlaster-compatible / Realtek® ALC200 AC97 codec / stereo speakers / 1 watt / volume up, down, mute buttons / no internal microphone / microphone input jack (3.5 mm) / headphone jack (3.5 mm)										Device Carrier adds potential functionality by supporting the		
Security	Power-on password / hard disk password / supervisor password / security keyhole										Ultrabay Plus Numeric Keypad and Cradle for the WorkPad® c500 Series		
Limited warranty <sup>*22</sup>	1 year - EasyServ™ <sup>25</sup> onsite pickup and delivery / warranty service upgrades <sup>21</sup>												
64 MB SO DIMM	133MHz NP SDRAM				19K4650	USB Portable Diskette Drive				05K9276			
128 MB SO DIMM	133MHz NP SDRAM				19K4652	ThinkPad Removable Diskette Drive				08K9603			
256 MB SO DIMM	133MHz NP SDRAM				19K4654	ThinkPad R30 Series Li-Ion Battery				02K6821			
512 MB SO DIMM	133MHz NP SDRAM				19K4656	ThinkPad 72W AC Adapter				02K6699			
SuperDisk (LS-240)	UltraBay 2000				08K9616	ThinkPad Port Replicator				02K8667			
Zip 250MB	Ultrabay 2000 Drive				00N8253	Portable Drive Bay 2000 (accepts Ultrabay 2000 media and storage devices)				19K4480			
24X-10X CD-ROM	Ultrabay 2000 Drive				05K9233	15GB Hard Disk Drive				08K9588			
8X/4X/24X Max CD-RW	Ultrabay 2000				08K9569	30GB Hard Disk Drive				08K9593			
8X-3X DVD	Ultrabay 2000 Drive				27L3448	48GB Hard Disk Drive				08K9600			
CD-RW/DVD Combo	Ultrabay 2000				08K9572	ServicePac® <sup>21</sup> 1yr IOR 9x5 NBD				30L9188			
Travel Bezel for Ultrabay 2000					08K6070	ServicePac 2yr IOR 9x5 NBD				30L9189			
Second HDD Adapter for Ultrabay 2000					08K6068	ServicePac 3yr IOR 9x5 NBD				30L9195			
IBM ThinkPad Ultrabay Plus Carrier					22P5737	ServicePac 2yr P&L P/U Depot				30L9191			
IBM ThinkPad Ultrabay Plus c500 Cradle					22P5738	ServicePac 3yr P&L P/U Depot				30L9192			
ThinkPad Ultrabay Plus Numeric Keypad					22P7330								
Universal 72 watt AC adapter													
PC 2001-compliant													
CIM and DMI 2.0-compliant													
Wired for Management 2.0													
IBM ImageUltra Services available													
IBM Rapid Restore PC available to protect software image and data													
Personalized Web-based support <sup>23</sup>													
Setup Guide, Service and Trouble-shooting Guide, Windows manual													
International Warranty Service <sup>24</sup>													
24 hour x 7 day <sup>1</sup> toll-free hardware support during the warranty													

\* For a copy of IBM's Statement of Limited Warranty, call 1-800-772-2227

 US models announced October 9, 2001  
 US models withdrawn effective April 2002

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