IBM® ThinkPad®						
Processor Processor features L2 cache Diskette drive CD-ROM DVD-ROM	No upgrade / processor, Celeron: 128KB; Pentiu Internal 3.5" 1.44MB / re CD-ROM / 24X-10X <sup>5</sup> spe Option: Removable Ultra	400MHz¹ or Mobile Pentium® II 400MHz / 66MHz so L2 cache, and MTXC (North Bridge) on Intel Mobile Im II: 256KB; All: onboard (full speed) / sync pipel movable from UltraBay™ FX / on right side / integrate ed / ATAPI / bootable / removable from UltraBay FX / aBay FX option / 4X-1X⁵ DVD integrated with a disket	Module (MMC2) ined burst / ECC / write-back ed with CD-ROM / no external disktte port on right side / integrated with diskette drive tte drive			
Type - model Processor / MHz Disk - size / read ms Preload (see side) Avail / withdrawn date Display (diagonal)	<b>4.8GB</b> <sup>4</sup> / 13ms <b>Windows 98</b> Sept 99 / Jul 00 <b>12.1" TFT SVGA 6.4GB Windo</b> Sept 9 <b>14.1"</b>	Marcol   M	II 400 I2ms Jul 00 XGA			
Display - size and type Display - technology	12.1" TFT color 308mm / SVGA / 800x600 / 20 to 3 16.7 million colors / 150	Active Matrix 30ms / 150 nits to 1 contrast 14.1" TFT color 358mm / Active Matrix 150 nits to 1 contrast 16.7 million colors /150 to 1 contrast	nits XGA / 1024x768 / 10 to 30ms / 120 nits			
Graphics controller	2.5MB / SGRAM (embed	a256AV <sup>™</sup> (NM2200) / 128-bit engine, 256-bit memor lded) / motion compensation / color space convers RT <sup>26</sup> / 150 degree tilt / multiple-monitor support <sup>26</sup>	y interface / <b>1X AGP</b> / DDC2B / ion / interpolation in X and Y axis			
Memory - std / max Memory - features	2 sockets for JEDEC 144	OMHz / PC100-compliant / 3.3 volt / 64-bit / I-pin SO DIMMs / one socket used by std memory / bottom via removing cover held by phillips-head screw	WINDOWS 98 PRELOAD <sup>16</sup> - Microsoft® Windows® 98			
Disk controller Keyboard Pointing	EIDE / PCI 2.1 / one internal disk / disk can be removed to upgrade by customer / supports two internal disks / 13ms read / 14ms write / S.M.A.R.T. <sup>29</sup> Full-size 85-key (7 Fn key functions) / palm rest / keyboard slope with tilt feet TrackPoint® / Press-to-Select / Release-to-Select / dragging / click pace / center button for scrolling (Internet Scroll Bar) or magnifying glass / spare caps  • Access ThinkPad • Online User's Guide • ThinkPad Configuration Program • ThinkPad Utilities • IBM Update Connector					
Dimensions Weight <sup>2</sup> (with batt/disk) Case material		1.8" (225 cu in) 15": 12.9 x 10.6 x 1.8" (246 cu) 7.5 lbs (3.4 kg) 15" models: 7.9 lbs (3.6 kg)	RingCentral Fax     Ergonomics     Intelliquest Registration     Puma IntelliSync 97 (infrared)     IBM Global Network Dialer     Netscape Communicator     Lotus® SmartSuite® Millennium <sup>20</sup>			
Battery - type Battery - life <sup>10</sup> (1 batt) Charge time <sup>10</sup>	F0U: 2.5 hrs Gxx/Hxx: 3	eft side Others: Li-lon / intelligent / left side .67 hrs Jxx: 3.5 hrs rs off Jxx: 6 hrs on / 3 hrs off				
Architecture  Docking station Port replicator PC Card Std slots	Texas Instruments® TI12! PCI 2.1 / 32-bit / 33MHz ISA (diskette, serial, para None ThinkPad Port Replicator 2 Type I, 2 Type II, or 1 Ty	with Advanced EtherJet™ / Basic Port Replicator /pe III / CardBus 32-bit / PCMCIA 2.1 / Zoomed video	<ul> <li>PC-Doctor</li> <li>ConfigSafe®</li> <li>Norton AntiVirus™ (OEM Version)</li> <li>Universal Management Services</li> <li>Software Selections CD</li> <li>Lotus SmartSuite Millennium CD-ROM</li> <li>Recovery CD-ROM (Windows 98)</li> <li>Recovery CD-ROM (Windows 95)</li> </ul>			
USB / serial / parallel Other features Video (TV) out MPEG decoder Data/fax modem Audio Speakers Audio features Audio in/out jacks Infrared ports	APM-aware BIOS / Ultras S-Video out connector of None (W98 support for N 56K <sup>22</sup> V.90 / integrated in conforms to earlier draft 16-bit SoundBlaster Pro <sup>T</sup> Two Altec Lansing® stere Dial volume control (righ Microphone jack (stereo) Infrared port on left side	550A / one (IEEE P1284-A, EPP, ECP, bidirectional) lim AC adapter, barrel, 3-prong, 56 watts in side (does not require cable) / Chrontel Ch7004C-T MPEG-2 because 300MHz with motion compensation) in system / PCI / Lucent 1646 / not voice-capable / specs similar to Mini PCI Type IIIb with support / ESS 1946 / PCI / full duplex to speakers (1 watt) on display (on front for 15" mod) at side) / internal microphone / headphone jack (stereo) / line-in jack / IrDA 1.1 compatible / up to 4Mbps	WINDOWS NT PRELOAD <sup>16</sup> - Microsoft Windows NT® 4.0  - Service Pack 4  - ThinkPad Utilities  - Online User's Guide  - ThinkPad Configuration Program  - Ergonomics  - Intelliquest Registration  - Puma IntelliSync 97 (infrared)  - IBM Global Network Dialer			
Security Limited warranty <sup>11</sup>	security keyhole / security	up password / disk password / y screw for UltraBay FX Pad EasyServ <sup>™31</sup> (door-to-door depot repair service)	Netscape Communicator     ConfigSafe     Norton AntiVirus (OEM Version)			
Service options <sup>15</sup>	On-site <sup>32</sup> , M-F, 8-5, next I	ous day (72 cities) / serv up to 5 yrs from purchase date	IBM Update Connector     SystemSoft CardWizard			
Color depth         LCD           Resolution         TFT           640x480         16M           800x600         16M           1024x768         16M           1280x1024	60Hz 75Hz 85Hz 16M 16M 16M 16M 16M 16M 16M 16M 16M 256	OPTIONS  - 32MB SO DIMM 100MHz NP SDRAM 20L0253  - 64MB SO DIMM 100MHz NP SDRAM 20L0254  - 128MB SO DIMM 100MZ NP SDRAM 20L0255  - 256MB SO DIMM 100MZ NP SDRAM 33L3069  - Basic (ThinkPad 560) Port Replicator 46H4209	Universal Management Services     Software Selections CD-ROM     Lotus SmartSuite Millennium CD-ROM     Recovery CD-ROM (Windows NT)  FEATURES			
All models: - C: drive is FAT16 of - D: drive is FAT32 of i	2GB remaining space	<ul> <li>Port Replicator w/ Advanced EtherJet</li> <li>ThinkPad 390/i Series Li-Ion Battery</li> <li>Ultraslim 56 watt AC Adapter (3-prong)</li> <li>6.4GB disk with UltraBay FX adapter</li> <li>05K8923</li> </ul>	Wired for Management 1.1a-compliant DMI 2.0-compliant PC 98-compliant ACPI ready (APM enabled)			
the bottom of the systeshould be off to safely supports: • standard diskette/CE Windows 98) • optional DVD/CD-Re	O-ROM (warm swap with OM (warm swap; W98) ery (hot swap; W98/NT); n one (cold swap)	- 10GB disk with UltraBay FX adapter - 12GB disk with UltraBay FX adapter - 4X-1X DVD/Diskette (for UltraBay FX) - CD/Diskette (for UltraBay FX) - 10/100 EtherJet Ready Port CardBus Adapter with 56K modem - 10/100 Ethernet CardBus PC Card - 10/100 EtherJet Ready	Wake on LAN® support <sup>28</sup> Setup Guide, User's Reference, Window, OS manual, and Quick Reference Card System Status Indicators Plug and Play 1.0a Standby, suspend, and hibernation modes ENERGY STAR-compliant International Warranty Service <sup>14</sup> IBM SystemXtra®.35 24 hour / 7 day30 telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support			

## **運派 ThinkPad® 390X (Pentium III) - withdrawn**

IBM <sup>®</sup> ThinkPad <sup>®</sup>								
Processor Processor features L2 cache Diskette drive CD-ROM DVD-ROM		r, L2 cache, and memo peed / sync pipelined l emovable from UltraBa reed / ATAPI / bootable	ory controller (North Bri burst / ECC / write-back ay™ FX / on right side / e / removable from Ultra	dge) on I k integrate Bay FX /	ed with CD-ROI on right side / i	dule (MMC2) M / no external disktte port ntegrated with diskette drive		
Type - model Processor / MHz Disk - size / read ms Preload (see side) Avail / withdrawn date Display (diagonal)	> 2626-L0U Pentium III 450MHz 12.0GB <sup>4</sup> / 12ms Windows 98 SE Dec 1999 / Oct 2000	Pentium III 450MHz 12.0GB / 12ms NT 4.0 Dec 1999 / Oct 2000 14.1" TFT XGA	≈ 2626-L2U Pentium III 450MHz 12.0GB / 12ms Windows 2000 Feb 2000 / Oct 2000 14.1" TFT XGA	≈ 2626 Pentiun 12.0GB Windov	S-M0U m III 500MHz B / 12ms ws 98 SE 99 / Jan 2001    ** 2626-MNU Pentium III 500MHz 12.0GB / 12ms NT 4.0 Dec 1999 / Jan 2001			
Display - size and type Display - technology	e 14.1" TFT color 358mm XGA / 1024x768 / 20 to 16.7 million colors /150	30ms / 120 nits		XGA / 1	TFT color 381mm / Active Matrix / 1024x768 / 10 to 30ms / 120 nits million colors / 150 to 1 contrast			
Graphics controller	NeoMagic™ MagicMed 2.5MB / SGRAM (embe simultaneous LCD and 0	edded) / motion comp	ensation / color space	it memor conversi	y interface / <b>1X</b>	AGP / DDC2B /		
Memory - std / max Memory - features	64MB / 512MB <sup>33</sup> SDRAM / non-parity / 10 2 sockets for JEDEC 14 sockets accessed from	00MHz / PC100-compli 14-pin SO DIMMs / on	ant / 3.3 volt / 64-bit / e socket used by std m	emory /				
Disk controller Keyboard Pointing	EIDE / PCI 2.1 / one internal disk / disk can be removed to upgrade by customer / supports two internal disks / 13ms read / 14ms write / S.M.A.R.T. <sup>29</sup> Full-size 85-key (7 Fn key functions) / palm rest / keyboard slope with tilt feet TrackPoint® / Press-to-Select / Release-to-Select / dragging / click pace / center button for scrolling (Internet Scroll Bar) or magnifying glass / spare caps  • ThinkPad Configuration Program • ThinkPad Utilities • IBM Update Connector • RingCentral Fax • ThinkPad on the Net							
Dimensions <sup>36</sup> Weight <sup>2</sup> (with batt/disk) Case material Battery - type Battery - life <sup>10</sup> (1 batt) Charge time <sup>10</sup>	14.1"mod: 12.4 x 10.2 x 14.1" models: 7.7 lbs (3. PC/ABS plastic Li-lon / intelligent / left si 14.1" models: 3.7 hrs 14.1" models: 5 hrs on /	.5 kg)	l lbs (3.6 kg)	246 cu)	Intelliquest Registration IBM Global Network Dialer Netscape Communicator Lotus® SmartSuite® Millennium <sup>20</sup> PC-Doctor ConfigSafe®			
Architecture  Docking station	Intel 440BX AGPset / Intel PIIX4E (EIDE, PCI to ISA bridge, USB) / Texas Instruments® TI1251B PCMCIA controller / NS PC97338 (FDC, IR, I/O) PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB, audio, modem) ISA (diskette, serial, parallel, infrared) None  None  Norton AntiVirus™ (OEM Version)  Universal Management Services (web the software Selections CD to the							
Port replicator PC Card Std slots USB / serial / parallel Other features	ThinkPad Port Replicate 2 Type I, 2 Type II, or 1 Tone USB / one 9 pin; 16 APM-aware BIOS / Ultra	Гуре III / CardBus 32-bi 6550A / one (IEEE P12	d video	WINDOWS 2000 PRELOAD <sup>16</sup> - Windows 2000® Professional				
Video (TV) out MPEG decoder Data/fax modem  Audio Speakers Audio features Audio in/out jacks Infrared ports	S-Video out connector of None (W98 support for 56K³7 V.90 / integrated conforms to earlier draff 16-bit SoundBlaster Pro Two Altec Lansing® stell bial volume control (rigil Microphone jack (steree Infrared port on left side	on side (does not requested MPEG-2 because 300 in system / PCI / Lucett specs similar to Minis support / ESS 1946 reo speakers (1 watt) ht side) / internal micro) / headphone jack (s	ensation) eable /	<ul> <li>ThinkPad Configuration Program</li> <li>IBM Registration</li> <li>PC-Doctor</li> <li>RingCentral Fax</li> <li>Netscape Communicator</li> <li>ConfigSafe</li> <li>IBM Update Connector</li> <li>SystemSoft CardWizard</li> <li>Norton AntiVirus™ (OEM Version)</li> <li>Universal Management Services (web)</li> <li>Coffware Selections CD-ROM</li> </ul>				
Security	Power-on password / se security keyhole / security	etup password / disk pa ity screw for UltraBay F						
Limited warranty <sup>11</sup> Service options <sup>15</sup>	1 year - carry-in or Thin On-site <sup>32</sup> , M-F, 8-5, next	kPad EasyServ <sup>M31</sup> (do bus day (72 cities) / s	service) ase date					
Color depth LCD Resolution TFT 640x480 16M	External Monitor  60Hz 75Hz 85Hz 16M 16M 16M	- 64MB SO DIMM 1	OPTIONS  00MHz NP SDRAM 20 00MHz NP SDRAM 20	)L0254				
800x600 16M 1024x768 16M 1280x1024	16M 16M 16M 16M 16M 16M 16M 16M 16M 256	- 128MB SO DIMM - 256MB SO DIMM - Basic (ThinkPad 5	100Mz NP SDRAM 20 100Mz NP SDRAM 33 660) Port Replicator 46	0L0255 3L3069		FEATURES agement 1.1a-compliant		
on the bottom of the s which should be off to it supports: • standard diskette/CI Windows 98) • optional DVD/CD-R	k (cold swap) roven™ solutions¹² :	- ThinkPad 390 Li-l - Ultraslim 56 watt A	K6513 K6545 K8923 K8983 K9268 K9129 K8986 L1301 L3147 L5075	PC 98-compliant ACPI ready (APM enabled) Wake on LAN® support28 Setup Guide, User's Reference, Window OS manual, and Quick Reference Card System Status Indicators Plug and Play 1.0a Standby, suspend, and hibernation mode: ENERGY STAR-compliant International Warranty Service14 IBM SystemXtra®.35 24 hour / 7 day30 telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support				