

IBM ThinkPad® 390E - withdrawn

IBM® ThinkPad®

Processor	Intel® Mobile Celeron™ 300 or 366MHz ¹ or Mobile Pentium® II 300PE or 333MHz / 66MHz system bus						
Processor features	No upgrade / processor, L2 cache, and MTXC (North Bridge) on Intel Mobile Module (MMC2)						
L2 cache	Celeron: 128KB; Pentium II: 256KB; All: onboard (full speed) / sync pipelined burst / ECC / write-back						
Diskette drive	Internal 3.5" 1.44MB / removable from UltraBay FX / on right side / integrated with CD-ROM / no external diskette port						
CD-ROM	CD-ROM / 24X-10X ⁵ speed / ATAPI / bootable / removable from UltraBay FX / on right side / integrated with diskette drive						
DVD-ROM	Option: Removable UltraBay FX option / 2X ⁵ DVD integrated with a diskette drive						
Type - model	≈ 2626-90U	≈ 2626-C0U	≈ 2626-D0U	≈ 2626-E0U	≈ 2626-ENU	≈ 2626-A0U	≈ 2626-B0U
Processor	Celeron 300MHz	PII 300PEMHz	PII 300PEMHz	PII 333MHz	PII 333MHz	PII 333MHz	Celeron 366
Disk - size / ms	3.2GB ⁴ / 13ms	3.2GB / 13ms	4.3GB / 13ms	6.4GB / 12ms	6.4GB / 12ms	None	4.8GB / 12/14ms
Preload (see side)	Windows 98	Windows 98	Windows 98	Windows 98	NT 4.0	None	Windows 98
Available date	March 1999	March 1999	March 1999	March 1999	March 1999	April 1999	June 1999
Display (diagonal)	12.1" TFT SVGA	13.3" TFT XGA	14.1" TFT XGA	14.1" TFT XGA	14.1" TFT XGA	14.1" TFT XGA	12.1" TFT SVGA
Display - size and type	12.1" TFT color 308mm / Active Matrix		13.3" TFT color 338mm / Active Matrix		14.1" TFT color 358mm / Active Matrix		
Display - technology	SVGA / 800x600 / 30ms / 150 nits		XGA / 1024x768 / 30ms / 120 nits		XGA / 1024x768 / 20 to 30ms / 120 nits		
	16.7 million colors / 100 to 1 contrast		16.7 million colors / 100 to 1 contrast		16.7 million colors / 150 to 1 contrast		
Graphics - controller	NeoMagic™ MagicMedia256AV™ (NM2200) / 128-bit engine, 256-bit memory interface / 1X AGP / DDC2B / 2.5MB / SGRAM (embedded) / motion compensation / color space conversion / interpolation in X and Y axis						
Graphics - features	Simultaneous LCD and CRT ²⁶ / 150 degree tilt / multiple-monitor support ²⁶						
Memory - std / max	32MB / 256MB ³³		64MB / 256MB ³³		0MB / 256MB ³³		32MB / 256MB ³³
Memory - features	SDRAM / non-parity / 66MHz / 3.3 volt / 64-bit 2 sockets for JEDEC 144-pin SO DIMMs / one socket used by std memory / Sockets accessed from bottom via removing cover held by phillips-head screw						
Disk controller	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. ²⁹						
Keyboard	Full-size 85-key (7 Fn key functions) / palm rest / keyboard slope with tilt feet						
Pointing	TrackPoint® / Press-to-Select / Release-to-Select / dragging / click pace / Center button for scrolling (Internet Scroll Bar) or magnifying glass / spare caps						
Dimensions	90U/C0U/B0U: 12.4 x 10.1 x 1.8" (225 cu in) Others: 12.4 x 10.2 x 1.8"						
Weight ² (with batt/disk)	Celeron models: 7.5 lbs (3.4 kg) Pentium models: 7.7 lbs (3.5 kg)						
Case material	PC/ABS plastic						
Battery - type	90U/C0U/D0U/B0U: NiMH / intelligent / left side Others: Li-Ion / intelligent						
Battery - life ¹⁰ (1 batt)	90U/C0U: 3.0 hrs D0U: 4 hrs E0U/ENU: 3.8 hrs B0U: 2.67 hrs						
Charge time ¹⁰	90U/C0U/B0U: 5 hrs on / 2.5 hrs off Others: 6 hrs on / 3 hrs off						
Architecture	Intel 440BX AGPset / Intel PIIX4E (EIDE, PCI to ISA bridge, USB) Texas Instruments® T11251A 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)						
Docking station	None						
Port replicator	ThinkPad Port Replicator with Advanced EtherJet™ / ThinkPad 560 Port Replic						
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed video						
USB / serial / parallel	One USB / one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)						
Other features	APM-aware BIOS / Ultralim AC adapter, barrel, 3-prong, 56 watts						
Video (TV) out	S-Video out connector on side (does not require cable) / Chrontel Ch7004C-T						
MPEG decoder	None (W98 support for MPEG-2 because 300MHz with motion compensation)						
Data/fax modem	56K ³⁷ V.90 / integrated in system / PCI / Lucent 1646 / not voice-capable						
Audio	16-bit SoundBlaster Pro™ compatible / ESS 1946 / PCI / full duplex						
Speakers	Two Altec Lansing® stereo speakers on display (1 watt)						
Audio features	Dial volume control (right side) / internal microphone						
Audio in/out jacks	Microphone jack (stereo) / headphone jack (stereo) / line-in jack						
Infrared ports	Infrared port on left side / IrDA 1.1 compatible / up to 4Mbps						
Security	Power-on password / setup password / disk password / security keyhole / security screw for UltraBay FX						
Limited warranty ¹¹	1 year - carry-in or ThinkPad EasyServ™ ³¹ (door-to-door depot repair service)						
Service options ¹⁵	On-site ³² , M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date						

WINDOWS 98 PRELOAD ¹⁶	
<ul style="list-style-type: none">- Microsoft® Windows® 98• Online User's Guide• ThinkPad Configuration Program• ThinkPad Utilities• IBM Update Connector• RingCentral Fax• Ergonomics• Intellicquest Registration• Puma IntelliSync 97 (infrared)• IBM Global Network Dialer• Netscape Communicator• Lotus® SmartSuite Millennium²⁰• PC Doctor• ConfigSafe• Norton AntiVirus (OEM Version)• ThinkPad on the Net (TCC CD)• Universal Management Agent✧ Customization Center CD✧ Lotus SmartSuite Millennium CD-ROM✧ Recovery CD-ROM (Windows 98)✧ Recovery CD-ROM (Windows 95)⁷	
WINDOWS NT PRELOAD ¹⁶	
<ul style="list-style-type: none">- Microsoft Windows NT® 4.0- Service Pack 4• ThinkPad Utilities• Online User's Guide• ThinkPad Configuration Program• Ergonomics• IBM Registration• Puma IntelliSync 97 (infrared)• IBM Global Network Dialer• Netscape Communicator• Lotus SmartSuite Millennium²⁰• Universal Management Agent	

Color depth	LCD	External Monitor			OPTIONS		
Resolution	TFT	60Hz	75Hz	85Hz			
640x480	16M	16M	16M	16M	- 32MB SO DIMM 3.3v NP SDRAM	76H0294	
800x600	16M	16M	16M	16M	- 64MB SO DIMM 3.3v NP SDRAM	20L0241	
1024x768	16M	16M	16M	16M	- 128MB SO DIMM 3.3v NP SDRAM	01K1150	
1280x1024	--	256	--	--	- ThinkPad 560 Port Replicator	46H4209	
All models: - C: drive is FAT16 of 2GB - D: drive is FAT32 of remaining space The right bay (UltraBay FX) has a device lock on the bottom of the system and a bay LED which should be off to safely remove a device; it supports: • standard diskette/CD-ROM (warm swap; W98) • optional DVD/CD-ROM (warm swap; W98) • optional second battery (hot swap; W98/NT); same battery as main one • optional second disk (cold swap) • optional ThinkPad Proven™ solutions ¹²					- Port Replicator w/ Advanced EtherJet	05K4872	
					- ThinkPad 390/i Series Li-Ion Battery	02K6513	
					- Ultralim 56 watt AC Adapter (3-prong)	02K6545	
					- 6.4GB disk with UltraBay FX adapter	05K8923	
					- 10GB disk with UltraBay FX adapter	05K8983	
					- DVD/Diskette (for UltraBay FX)	05K8921	
					- CD/Diskette (for UltraBay FX)	05K8986	
					- 900MHz Cordless Computer Conn	04K0064	
					- V.90 PC Card Modem with XJACK ²⁴	10L7393	
					- 10/100 Ethernet CardBus PC Card	08L3147	
					- Smart Card Security Kit	33L5075	
					- ThinkPad Proven™ solutions ¹² (visit www.ibm.com/pc/us/thinkpad/proven)		
					Pressing F1 during startup brings up IBM BIOS		

- WINDOWS 98 PRELOAD¹⁶**
- Microsoft® Windows® 98
 - Online User's Guide
 - ThinkPad Configuration Program
 - ThinkPad Utilities
 - IBM Update Connector
 - RingCentral Fax
 - Ergonomics
 - Intelliquest Registration
 - Puma IntelliSync 97 (infrared)
 - IBM Global Network Dialer
 - Netscape Communicator
 - Lotus® SmartSuite Millennium²⁰
 - PC Doctor
 - ConfigSafe
 - Norton AntiVirus (OEM Version)
 - ThinkPad on the Net (TCC CD)
 - Universal Management Agent
 - ✧ Customization Center CD
 - ✧ Lotus SmartSuite Millennium CD-ROM
 - ✧ Recovery CD-ROM (Windows 98)
 - ✧ Recovery CD-ROM (Windows 95)⁷

- WINDOWS NT PRELOAD¹⁶**
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 - Netscape Communicator
 - Lotus SmartSuite Millennium²⁰
 - Universal Management Agent
 - ConfigSafe
 - Norton AntiVirus (OEM Version)
 - IBM Update Connector
 - SystemSoft CardWizard
 - Universal Management Agent
 - ✧ Software Selections CD-ROM
 - ✧ Recovery CD-ROM (Windows NT)

FEATURES

Wired for Management 1.1a compliant
 DMI 2.0 compliant
 PC 98 compliant
 ACPI ready (APM enabled)
 Wake on LAN® support²⁸
 Setup Guide, User's Reference, Windows OS manual, and Quick Reference Card
 System Status Indicators
 Plug and Play 1.0a
 Standby, suspend, and hibernation modes
 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