

IBM ThinkPad® 770E and 770ED - withdrawn

IBM® ThinkPad®:	770E	770E	770ED	770E (AAP)	WINDOWS 95 PRELOAD ¹⁶	
Processor type/path	Pentium® II 266/66MHz¹ (Deschutes) / 64-bit to L2 and memory				- Microsoft® Windows® 95 OSR2.1 (FAT16)	
Processor features	No upgrade / processor, L2 cache, and MTXC (North Bridge) on Intel MMO				• Online User's Guide	
L2 cache	512KB / write-back / 4 way set associative/ sync pipelined burst / ECC / 133MHz				• ThinkPad Customization Center	
Diskette (removable)	3.5" 1.44MB / in encased enclosure / use in UltraBay II or attach externally				• ThinkPad Configuration Program	
External FDD port	External diskette port (use std cable to attach diskette drive externally)				• SystemSoft CardWorks	
CD-ROM (removable)	Option: 5.25" CD-ROM / 24X-10X² speed / CAV / bootable / hot swap				• Diskette Factory Utilities	
DVD-ROM (removable)	EIDE (ATAPI) / PIO Mode 4 for W95; DMA Mode 2 for NT / use in UltraBay II Std or option: DVD drive / 8 x to 16 x spd / CAV / use in UltraBay II / (DVD5/4.7GB) requires DVD and Enhanced Video Adapter for movie playback / sw enb AC-3 port				• Puma IntelliSync 97; 2. IBM AntiVirus	
Type - model	9548-51U	9548-52U	9549-5AU	9548-53U (AAP)	• Asymetrix Digital Video Producer (5AU)	
Display (diagonal)	14.1" TFT XGA	14.1" TFT XGA	14.1" TFT XGA	14.1" TFT XGA	• RingZero Ring Central (5AU only)	
Disk (removable)	5.1GB⁴ / PIO4	5.1GB / DMA33	8.1GB / PIO4	None	• Intelliquest Registration Mailer	
DVD-ROM drive	Optional	Optional	Standard DVD	Optional	• Voyetra Audiostation	
Preload (see side)	W95 OSR2.1	NT 4.0	W95 OSR2.1	Blank (no disk)	• ConfigSafe	
DVD and Enh Vid Ad	Optional	Optional	Standard	Optional	• IBM Internet Connection services with Netscape Navigator web browser	
Modem	Opt PC Card	Opt PC Card	56Kbps	Opt PC Card	• Intel® LANDesk® Client Manager	
Avail / withdr date	April 1998 / December 1998				• Intel Video Phone (receive) (5AU only)	
Memory - std / max	32MB / 288MB³	32MB / 288MB³	64MB / 288MB³	32MB / 288MB³	• ThinkPad PointCast	
Memory - upgrade	SDRAM / 83 or 100MHz / non-parity / 3.3v / 2 sockets available for two JEDEC 144 pin SDRAM SO-DIMMs / sockets accessed by removing screw on bottom				• Ergonomics	
Display - size (colors)	XGA color / 640x480, 800x600, or 1024x768 (16 million simultaneous colors)				• ThinkPad on the NET	
Display - technology	Active Matrix TFT - 100 to 1 contrast / 150 nits (AC) / 90 nits (batt) / 180 degree tilt				• NetFinity for Windows 95	
Graphics - controller	Trident™ CYBER9397E / 64-bit accelerator / 4MB SGRAM / 83MHz				◇ Recovery CD-ROM with boot diskette	
Graphics - arch	PCI 2.1 / Direct3D, DirectDraw, DirectVideo, DirectX 5.0 support / ZV interface				◇ Customization CD-ROM (apps/drivers)	
Graphics - features	3D hardware accelerator / interpolation in X and Y axis / color space conversion					
Graphics - external	External SVGA to 1280x1024 w/ 64K colors (85Hz) or 1024x768 w/ 16M colors					
Disk (swappable)	Left side / removable via 3 methods: latch, coin screw, security tool / SMART					
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / 430TX South Bridge / PIIX4 / supports two internal disks (16.2GB max) / DMA Mode 2, Ultra DMA/33, or PIO Mode 4					
Keyboard / Fn keys	Full size alpn/num / 7 Fn key functions / integrated palm rest					
Keyboard slope	Flat keyboard (does not lift up) / rear legs pop up (5.5 degrees slope)					
Pointing device	TrackPoint® / Press-to-Select / Release-to-Select / dragging / click pace/ center click button for scrolling or magnifying glass / suspension top / spare caps					
Dimensions	12.3 x 10 x 2.2" (270 cubic in) / 5AU : 7.8 pounds (3.5 kg) with battery/diskette					
Weight ²	Others : 7.6 pounds (3.45 kg) with battery/diskette					
Battery - type	Lithium Ion / intelligent / left side					
Battery - life ¹⁰ (1 batt)	3.5 hrs (7 hrs with second battery in UltraBay II)					
Charge time - on / off/2	to 3 hrs / 1.5 to 2.5 hrs					
Architecture	Intel 440BX PCIsset / TI® PCI1250A for CardBus / LM75 digital thermometer PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, CardBus, MPEG, USB, ext expansion) PC97338 Super I/O / ISA (audio, modem, diskette, serial, parallel, infrared, ext exp) SelectaBase 770 / PC Card Enabler ¹⁸ / PC Card Enabler with Adv EtherJet ¹⁸ SelectaDock III / SelectaDock I and II 2 Type 1, 2 Type II, or 1 Type III / CardBus / PCMCIA 2.1 / Zoomed Video USB / serial / parallel One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional) Other features APM-aware BIOS / AC Adapter barrel, 3 prong (56 watts) / Selectable boot					
Port replicator	5AU or option : Video in/out (composite and S-Video) / SAA7111A NTSC/PAL					
Docking Station	5AU or option : MPEG-2 / IBM MPEGCD1M / 2MB SDRAM; 100MHz					
PC Card Std slots	5AU : 56Kbps (x2, upgradeable to v.90 ⁸) / 14.4Kbps fax / telephony / integrated Mwave® 3780i DSP / international programmable DAA					
USB / serial / parallel	16-bit / CS4237B / SRS 3D audio / FM synthesis / software decodes AC3 into stereo					
Other features	Int stereo speakers (front) / 1 watt / rotary volume control (right) / int microphone					
Video in/out	Input jack (3.5 mm) / output jack (3.5 mm) / full duplex					
MPEG decoder	Infrared ports (front and back) / IrDA 1.1 compatible / up to 4Mbps					
Data/fax modem	Power-on password / hard disk password / supervisor password / security keyhole / personalization / phillips-head screws on base for battery and UltraBay II bays					
Audio support	3 year - ThinkPad EasyServ ³¹ (door-to-door depot repair service) or carry-in Rapid Depot Repair (12 hr service from arrival time for 3 bus day average turnaround)					
Jacks	Service options¹⁵ On-site ³² , M-F, 8-5, next bus day (71 cities) / serv up to 5 yrs from purchase date					
Infrared ports						
Security						
Limited warranty ¹¹						
Service options ¹⁵						
DVD and Enhanced Video Adapter (DEVA) provides (standard in 5AU; optional all others):	- 5.1GB disk, 12ms, Ultra DMA/33					
	- 8.1GB disk, 12ms, Ultra DMA/33					
	- 2nd Disk Adapter (for 760/770 disks)					
	- SelectaBase 770					
	- SelectaDock III¹⁸					
	- PC Card Enabler with EtherJet¹⁸					
	- 760 UltraBay Tray for SD III					
	- 56 watt AC Adapter (barrel; 3 prong)					
	- 20X-8X CD-ROM Drive (UltraBay II)					
	- 24X-10X CD-ROM Drive (UltraBay II)					
	- DVD Drive (UltraBay II)					
	- DVD and Enh Video Adapter					
	- 16MB SO DIMM 3.3v NP SDRAM					
	- 32MB SO DIMM 3.3v NP SDRAM					
	- 64MB SO DIMM 3.3v NP SDRAM					
	- 900MHz Cordless Comp Connection					
	- V.90 PC Card Modem with XJACK ²⁴					
	- ThinkPad 770 Li-Ion Battery					
	- External Battery Charger					

The right bay (UltraBay™ II) has LED on release latch to provide status; it supports hot swapping; it supports: ① std diskette; ② optional DVD drive; ③ optional CD-ROM; ④ optional 2nd disk; ⑤ optional 2nd battery; ⑥ optional ThinkPad Proven™ VST Zip™ 100 drive
ThinkPad 770 supported disks: - 3.2GB 13ms read/14ms write 17 mm PIO Mode 4 or DMA Mode 2 - 4.0GB 13ms read/14ms write 12.5 mm PIO Mode 4 or Ultra DMA/33 - 5.1GB 12ms read/13ms write 17 mm PIO Mode 4 or Ultra DMA/33 - 8.1GB 12ms read/13ms write 17 mm PIO Mode 4 or Ultra DMA/33 - All 760 supported disks (requires opt adaptor)
PC 97 compliant DMI 2.0 compliant DMI instrumentation (thermal monitoring) ACPI ready (APM enabled) Wired for Management 1.1a compliant Wake on LAN™ support²⁸ C: is 1.99G, D: up to 1.99G (FAT32), etc. Setup Guide, User's Guide, Up and Running, Windows 95 manual LCD indicator panel Plug and Play 1.0a Non-disruptive battery exchange Standby, suspend, safe suspend, and hibernation modes ENERGY STAR compliant International Warranty Service ¹⁴ IBM SystemXtra™ 24 hour / 7 day telephone ³⁰ , bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support

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