

IBM ThinkPad® 310ED (Retail models) - withdrawn

IBM® ThinkPad®:		310ED	310ED
Processor type	Pentium® MMX™ 133/66MHz ¹		Pentium MMX 166/66MHz
Processor upgrade	None		
Processor features	MMX technology / P55CLM / 64-bit to transfers to L2 cache and memory		
L2 cache	256KB / write-back / direct mapped / 7ns / synchronous pipelined burst		
External FDD port	External FDD port (works with standard external diskette on CD-ROM-based model; or use if upgrade to CD-ROM)		
Diskette drive	External 3.5" 1.44MB (connect to rear)		
CD-ROM drive	10x ⁵ CD-ROM / bootable (left side) / CAV		20X-8X ⁵ CD-ROM / bootable (left side) / CAV
Price			
Type - model	2600-50U	2600-B0U	
UPC code	087944375975	087944395997	
Preload (see side)	Windows 95 OSR2	Windows 95 OSR2.5	
Avail / withdrawn date	November 1997 / May 1998	March 1998 / September 1998	
Disk - size / ms	1.6GB ⁴ / 13ms/14ms / PIO 4 / SMART	2.1GB / 13ms read; 14ms write / PIO Mode 4 / SMART	
Disk controller	EIDE / busmaster / PCI 2.1 / supports one internal disk		
Display - size and type	12.1" Dual Scan SVGA color		
Display - technology	12.1" SVGA color / 640 x 480 or 800 x 600 256 simultaneous colors / Dual Scan / 30 to 1 contrast ratio		
Graphics - controller	C&T™ 65550 HiQV32™ / 64-bit SVGA accelerator / 1MB EDO DRAM / 70ns		
Graph - arch/data path	PCI 2.1 / interpolation / color space conversion		
Gaphics - features	Simultaneous LCD and CRT / 180 degree tilt / Zoomed Video support		
Graphics - external	External SVGA to 1024 x 768 with 256 colors		
Memory - std / max	16MB / 64MB / one SO-DIMM used	32MB / 64MB / one SO-DIMM used	
Memory - features	60ns / non-parity / 3.3 volt / EDO / memory installed from bottom of system		
Memory - upgrade	1 socket available for JEDEC 144 pin EDO SO-DIMM of 8, 16, or 32MB		
Keyboard / # of keys	Full size alp/num / 85 keys (9 Fn key functions)		
Keyboard slope	Large palm rest / keyboard remains flat (no sloop) / no liftup keyboard		
Pointing device	TrackPoint® III / no drag lock keys		
Palm rest	Integrated palm rest / external keyboard support (no optional cable)		
Dimensions	11.7 x 8.9 x 2.0" (208 cubic inches) / 298 mm x 227 mm x 50 mm		
Weight ²	7.1 lbs (3.2 kg)	6.9 lbs (3.1 kg)	
Battery - life	3.0 hours		
Charge time - on / off	3.5 to 10 hrs / 2.0 hrs / no non-disruptive battery exchange		
Battery - type	NiMH / non-intelligent / battery unique to 310 / insert from right side		
Architecture	ISA (audio, diskette, serial, parallel) / ALI® Aladdin III M1521/M1523 chipset PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA) NS PC87336VJG (diskette, serial, parallel) / TI PCI1131 CardBus (PCI)		
Docking Station	None		
Port replicator	None		
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III / PCMCIA 2.1 compatible / PC Card Standard 95 CardBus 32-bit PCI / Zoomed Video support in lower slot		
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)		
Other features	Universal AC Adapter 3 prong (45 watts) with barrel connector (slim) / APM-aware BIOS / APM 1.2 / Selectable boot / Acer® BIOS		
Video in/out	None		
Data/fax modem	None	56Kbps PC Card modem ActionTec® DataLink / K56flex™	
Audio support	16-bit audio chip / 18 voice MIDI FM synthesis / Yamaha YMF715 Internal stereo speakers / .5 watt / Fn key volume control		
Audio jacks	Input jack (3.5 mm) / stereo output jack (3.5 mm) / stereo mic jack (3.5 mm)		
Telephone	None		
Infrared ports	None		
Security	Power-on password / Setup password (for Notebook Manager and BIOS Utility)/ diskette and disk write protect and disable / security keyhole / electronic personalization		
Preinstalled software	Microsoft® Windows® 95 with applications (listed on right)		
Limited warranty ¹¹	1 year - carry-in		
BIOS Utility is entered by holding F2 while the ThinkPad logo is displayed after power on. Fn + F1 = Hot key help Fn + F2 = Brightness/contrast Fn + arrows = Adjust brightness/contrast Fn + F3 = LCD/CRT/Simultaneous Fn + F4 = Fuel gauge Fn + F5 = Audio volume Fn + arrows = Adjust volume Fn + F6 = Power mgmt and system info Fn + F7 = Standby Fn + F8 = Hibernation Fn + Esc = Close Hot key icon		OPTIONS - 2.1GB disk 13/14ms (user upgradeable) 11J8643 - 3.2GB disk 12ms (user upgradeable) 05K8864 - NiMH Battery 11J8639 - AC Adapter, 3 prong, US pwr cord, 45 wa 11J8702 - 16MB SO DIMM 3.3v NP EDO 64-bit, gold 11J8636 - 32MB SO DIMM 3.3v NP EDO 64-bit, gold 11J8637 - PCMCIA 33.6Kbps International Data/Fax 42H4319 - PCMCIA 33.6Kbps Modem w/ XJACK 55H6759 - 56K PC Card Modem Kit 04K0052	
		System does not have non-disruptive battery exchange. Battery can be changed while system is off, in hibernation, or under AC power. No suspend mode; has standby and hibernation mode	
		FEATURES Plug and Play 1.0a Standby and hibernation modes Color LED indicator ENERGY STAR compliant Personalized nameplate indentation Year 2000 ready International Warranty Service ¹⁴ 24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support IBM and dealer warranty/service	

⚡ = Withdrawn from marketing

All trademarks are the property of their respective owners
 No warranties are expressed or implied in this summary
 (310ED) © IBM Corp. August 1998