

IBM ThinkPad 310 (EMEA) - withdrawn

IBM® ThinkPad®:	310	310	310D
	11.3" Dual Scan SVGA color	11.3" TFT SVGA color	11.3" Dual Scan SVGA color / 10 x CD-ROM
Processor type	Pentium® 133/66 MHz (P54CSLM) / 64 bit to transfers to L2 cache and memory		
Processor upgrade	None		
L2 cache	256 KB / write-back / direct mapped / 7 ns / 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	Internal 3.5" 1.44 MB (on left side)		
CD-ROM drive	None (upgrade available)	None (upgrade available)	10 x CD-ROM / bootable(left side) / CAV
Code name	LaCrosse	LaCrosse	LaCrosse
Price			
Type - model	2600-100	2600-300	2600-200
Preload (see side)	Windows 95 OSR2		
Avail / withdrawn date	June 1997 / January 1998		
Disk - size / ms	1.08GB / 13ms read; 14ms write / PIO Mode 4		
Disk controller	EIDE / busmaster / PCI 2.1 / supports one internal disk		
Display - size and type	11.3" Dual Scan SVGA color	11.3" TFT SVGA color	11.3" Dual Scan SVGA color
Display - technology	11.3" SVGA color / 640x480 or 800x600 256 simultaneous colors / Dual Scan / 30 to 1 contrast ratio		11.3" SVGA color / 640x480 or 800x600 / 65,536 sim colors Black Matrix TFT - active matrix / 100 to 1 contrast ratio
Graphics - controller	C&T™ 65550 HiQV32™ / 64 bit SVGA accelerator / 1 MB EDO DRAM / 70 ns		
Graph - arch/data path	PCI 2.1 / interpolation / color space conversion		
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt / Zoomed Video support		
Graphics - external	External SVGA to 1024x768 with 256 colors		
Memory - std / max	16MB / 64MB / one 16MB SO-DIMM is installed in one of two sockets		
Memory - features	60 ns / non-parity / 3.3 volt / EDO / memory installed from bottom of system		
Memory - upgrade	1 socket available for two 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 1.9" (198 cubic inches)		
Weight	6.6 pounds (3.0 kg)	6.6 pounds (3.0 kg)	7.0 lbs (3.2 kg)
Battery - type	NiMH / non-intelligent / battery unique to 310 / insert from right side		
Battery - life	2.5 hours		
Charge time - on / off	3.5 to 10 hrs / 2.8 hrs / no non-disruptive battery exchange		
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 One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)		
Serial / parallel ports	Universal AC Adapter 3 prong (45 watts) with barrel connector (slim) / APM-aware BIOS / APM 1.2 / Selectable boot / Acer® BIOS		
Other features			
Video in/out	None		
MPEG decoder	None		
Data/fax modem	None		
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 / Locking device keyhole on back (Kensington™ cable lock)		
Preinstalled software	Windows 95 with applications (listed on right)		
Warranty	1 year - carry-in		
BIOS Utility is entered by holding F2 while the ThinkPad logo is displayed after power on.		Compatible in ThinkPad 310 family:	
Fn + F1 = Hot key help		- 2.1GB HDD 13/14 ms (user upgradeable)	11J8643
Fn + F2 = Brightness/contrast		- NiMH Battery	11J8639
Fn + arrows = Adjust brightness/contrast		- AC Adapter, 3 prong w/o power cord	11J8699
Fn + F3 = LCD/CRT/Simultaneous		- AC Adapter, 3 prong with US power cord	11J8702
Fn + F4 = Fuel gauge		- 8MB SO DIMM 3.3v NP EDO 64-bit, gold	11J8635
Fn + F5 = Audio volume		- 16MB SO DIMM 3.3v NP EDO 64-bit, gold	11J8636
Fn + arrows = Adjust volume		- 32MB SO DIMM 3.3v NP EDO 64-bit, gold	11J8637
Fn + F6 = Power mgmt and system info		- 10 x CD-ROM w/ external FDD/cable (dealer installable only)	11J8676
Fn + F7 = Standby		- PCMCIA 28.8Kbps International	42H4319
Fn + F8 = Hibernation			
Fn + Esc = Close Hot key icon			

WINDOWS 95 PRELOAD

- Microsoft Windows 95 OSR2 (FAT16)
- Notebook Manager
- PhoenixCard Manager
- (no diskette factory)
- 1. IBM Anti-Virus
- 2. IntelliQuest Registration Mailer
- 3. ThinkPad Customization Icon
- Lotus SmartSuite CD-ROM
- Recovery CD-ROM with boot diskette
- Windows 95 CD-ROM (no installation)

Disk is not removable, but it can be upgraded via a dealer or service center (not customer installable).

System does not have non-disruptive battery exchange. Battery can be changed while system is off, in hibernation, or under AC power.

FEATURES OF 310 MODELS

Plug and Play 1.0a
Standby and hibernation modes
Color LED indicator
US EPA Energy Star compliant
Personalized nameplate indentation
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service