IBM ThinkPad® 385XD (Retail models) - withdrawn

IBM® ThinkPad®

Processor type	**Pentium® 233/66[1] with MMX™ technology, 266/66MHz with MMX™ technology,** or **Pentium II 266/66MHz**
Processor features	No upgrade / processor, L2 cache, and memory controller (North Bridge) on Mobile Module
L2 cache	**512KB** / sync pipelined burst (66MHz for Pentium / ECC and 133MHz for Pentium II)
Diskette drive	Internal 3.5" 1.44MB / use simultaneously with CD-ROM / on right side
External FDD port	None since diskette internal
CD-ROM	**5.25" CD-ROM / 24X-10X**[5] **speed /** CAV / multi-session / XA / ATAPI / bootable / not removable / on right side

	2635-8EU	2635-9EU	2635-DEU	
Type - model	**2635-8EU**	**2635-9EU**	**2635-DEU**	***All-in-one integration means the***
UPC code	**0-87944-40513-9**	**0-87944-40514-6**	**0-87944-41973-0**	***disk, diskette drive, and CD-ROM***
Processor	**Pentium 233/66MHz**	**Pentium 266/66MHz**	***Pentium II 266/66MHz***	***are all within the covers of the***
Avail / withdrawn date	March 1998 / Sept 1998	March 1998 / Sept 1998	May 1998 / Sept 1998	***notebook; removable disk;***
Disk - size / ms	**2.1GB**[4] / 13ms / PIO Mode 4	**3.2GB** / 13ms / PIO Mode 4	**3.2GB** / 13ms / PIO 4	***keyboard does not lift up***
Disk controller	EIDE / PCI 2.1 / supports one internal disk / no DMA or busmaster support / disk can be removed and upgraded by customer			

Display - size and type	**12.1 inch HPA** (High Performance Addressing) **color**	**12.1 inch TFT color** / Active Matrix
Display - techology	**SVGA** / 640x480 or 800x600 / 150ms / 100 nits /	**SVGA** / 640x480 or 800x600 / 75ms / 100 nits
	16.7 million simultaneous colors / 50 to 1 contrast	**16.7 million simultaneous colors** / 100 to 1 contrast

Graphics - controller	**NeoMagic™ MagicGraph128XD™** (NM2160B) / 128-bit SVGA accelerator / Zoomed Video support / DDC1 and DDC2B
	2MB / iDRAM™ (embedded) / color space conversion and interpolation in X and Y axis / support for DCI, DirectDraw
Graph - arch/data path	PCI 2.1 / 32-bit / external SVGA to 1024x768 with 65,536 colors
Graphics - features	Simultaneous LCD and CRT / 150 degree tilt

Memory - std / max	**32MB** / 96MB / non-parity / 3.3 volt / EDO / 60ns
Memory - features	1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, 32, or 64MB
Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator
External keyboard	External keyboard support with option cable 06G8619 or Port Replicator
Pointing / palm rest	TrackPoint III™ / no drag lock keys
Dimensions / weight[2]	11.8 x 9.2 x 2.4" (260 cubic inches) / 8EU/9EU: 7.1 pounds; DEU: 7.2 lbs
Battery - type / life[10]	Li-Ion / non-intelligent / 3.0 hrs
Charge time - on / off	4.2 to 12 hrs / 3.3 hrs
Architecture	Intel® Triton **430TX, PIIX4** for Pentium systems / **Intel 440BX, PIIX4** for Pent II
	PIIX4 (EIDE, USB, PCI to ISA bridge)TI® **TI1250A** PCMCIA controller
	PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB)
	ISA (audio, diskette, serial, parallel, infrared) / NS PC97338 (FDC, IR, I/O)
Docking station	None
Port replicator	① ThinkPad Enhanced Port Replicator, ② ThinkPad 560 Port Replicator,
	③ ThinkPad 380/385 Port Replicator
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III / **CardBus 32-bit PCI** / Zoomed video
	PCMCIA 2.1 compatible / PC Card Standard 95
USB / serial / parallel	**One USB /** one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Universal AC adapter; barrel (56 watts) / 35 watt supported
Video in/out	None
MPEG decoder	None (software support for MPEG-1 in Windows 95)
Data/fax modem	**56KB PC Card Modem / Cellular Capable** / x2 / XJACK connecor (02K4196)
Audio	**16-bit** / CS4237B / SRS 3D audio / FM synthesis
Speakers	Two front **stereo speakers** (.5 watt) / one **subwoofer** above keyboard (1 watt)
Audio features	Dial volume control (left side) / internal microphone / full duplex spk/mic
Audio in/out jacks	Input/microphone jack (stereo) / output jack (stereo) / no joystick port
Infrared ports	Infrared port on left side / IrDA 1.1 compatible / up to 4Mbps
Security	Power-on password / supervisor password / hard disk password /
	security keyhole / personalization screen at startup
Preinstalled software	Microsoft® Windows® 95 OSR2.1 wth applications (listed on right)
Limited warranty[11]	**1 year** - ThinkPad EasyServ (door-to-door depot repair service) or carry-in
Service options[15]	On-site, M-F, 8-5, next bus day (71 cities) / warranty extension to 3 or 5 years

WINDOWS 95 PRELOAD[16]

- Microsoft Windows 95 OSR2.1 (FAT16)
- Internet Explorer 4.0
- Online User's Guide
- ThinkPad Configuration Program
- SystemSoft CardWorks™
- Diskette Factory and Utilities
- Artisoft ConfigSafe
- Update Connector
- Puma TranXit™
- IBM Anti-Virus
- IBM Global Network (IGN Dialer)
- Netscape Navigator browser
- Media Player
- IntelliQuest Registration Mailer
- Ergonomics
- PointCast (with ThinkPad channel)
- Marketing Demo
- Expensable
- ThinkPad on the Net
- Personalization Editor
- ThinkPad Customization
- Lotus SmartSuite 97
- Voyetra Audio Station
- Rand McNally's Trip Maker
- Quicken 98 (subject to change)
◇ EA Sports PGA Tour Golf CD-ROM
◇ Recovery CD-ROM with boot diskette
◇ Windows 95 CD-ROM (no installation)

3.2GB = DMA Mode 2 or PIO Mode 4
4.0GB = DMA Mode 2 or PIO Mode 4
5.1GB = Ultra DMA/33 or PIO Mode 4
All disks are SMART compliant

Fn + F2	=	Battery guage
Fn + F3	=	Standby
Fn + F4	=	Suspend
Fn + F7	=	LCD/CRT/Simultaneous
Fn + F11	=	Power mgmt
Fn + F12	=	Hibernation

FEATURES

DMI 2.0 compliant (via software upgrade)
PC 97 compliant
Wired for Management 1.1a
Setup Guide, User's Guide, Options by
  IBM catalog, Windows 95 book
System Status Indicators
Plug and Play 1.0a
Standby, suspend, safe suspend (RediSafe),
  and hibernation modes
ENERGY STAR compliant
International Warranty Service[14]
24 hour / 7 day telephone[30], **bulletin
  board, fax, electronic, and Internet
  (www.ibm.com/pc/us) support**
IBM and dealer warranty/service

The **ThinkPad Enhanced Port Replicator**
provide cable management, additional I/O ports,
and CardBus PC Card slots. Features include:

- Dual IBM lock slots to secure the ThinkPad,
  PC Cards, and Port Replicator

Port Replicator connectors:
- USB, serial (9 pin), parallel (25 pin)
- External display (15 pin)
- Keyboard and mouse
- Audio in (3.5 mm) and audio out (3.5 mm)
- Joystick/MIDI port (15 pin) - not on system
- External diskette drive conntr - not on system
- Power connector (requires AC power; can not
  run on battery)

Features of the PC Card slots:
- Two Type III slots (side by side)
- PC Card Standard 95 compliant
- CardBus compliant (PCI 2.1 / 32-bit)
- 8/16-bit PC Card support (no Zoomed Video)
- Texas Instruments PCI1131 controller
- Requires no PCI-to-PCI bridge

OPTIONS

- 8MB SO DIMM 3.3v NP EDO 64-bit	92G7340
- 16MB SO DIMM 3.3v NP EDO 64-bit	92G7341
- 16MB SO DIMM NP EDO 64-bit (new)	01K1124
- 32MB SO DIMM 3.3v NP EDO 64-bit	92G7342
- 64MB SO DIMM 3.3v NP EDO 64-bit	76H0268
- ThinkPad 560 Port Replicator	46H4209
- ThinkPad 380/385 Port Replicator	84G1316
- ThinkPad Enhanced Port Replicator	11J8997
- ThinkPad 380/385 Li-Ion Battery (old)	73H9793
- ThinkPad 380/385 Li-Ion Battery	02K6507
- 56 watt AC Adapter (barrel; 3 prong)	83H6739
- 6.4GB disk, 13ms, Ultra DMA/33	02K0518
- 33.6Kbps Modem with XJACK	55H6759
- 56K PC Card Modem Kit	04K0052
- 56K PC Card Modem/Cellular Capable	02K4196

Easy-Setup is entered by holding F1 when
turning on.

IBM® **ThinkPad**®

Processor type	**Pentium**® **233/66MHz**[1] with MMX technology
Processor features	No processor upgrade / processor, L2 cache, and memory controller (North Bridge) on Mobile Module
L2 cache	**512KB** / synchronous pipelined burst (66MHz)
Diskette drive	Internal 3.5" 1.44MB / use simultaneously with CD-ROM / on right side
External FDD port	None since diskette internal
CD-ROM	**5.25" CD-ROM / 24X-10X**[5] **speed** / CAV / multi-session / XA / ATAPI / bootable / not removable / on right side

Type - model	**2635-LEU**	*All-in-one integration means the disk, diskette*
UPC code	**0-87944-452188**	*drive, and CD-ROM are all within the covers of*
Avail / withdrawn date	July 1998 / September 1998	*the notebook; removable disk;*
Disk - size / ms	**3.2GB**[4] / 13ms (read); 14ms (write) / PIO 4 / SMART	*keyboard does not lift up*
Disk - partitioning	Partitioned as C: (2GB - FAT16) and D: (remainder - FAT32)	
Disk controller	EIDE / PCI 2.1 / supports one internal disk / no DMA or busmaster support / disk can be removed and upgraded by customer	

Display - size and type	**12.1 inch TFT color** / Active Matrix
Display - techology	**SVGA** / 640x480 or 800x600 / 75ms / 100 nits
	16.7 million simultaneous colors

Graphics - controller	**NeoMagic™ MagicGraph128XD™** (NM2160B) / 128-bit SVGA accelerator / Zoomed Video support / DDC1 and DDC2B
	2MB / iDRAM™ (embedded) / color space conversion and interpolation in X and Y axis / support for DCI, DirectDraw
Graph - arch/data path	PCI 2.1 / 32-bit / external SVGA to 1024x768 with 65,536 colors at 75Hz
Graphics - features	Simultaneous LCD and CRT / 150 degree tilt

Two-column layout continues:

Left column:

Memory - std / max	**32MB** / 96MB / non-parity / 3.3 volt / EDO / 60ns
Memory - features	1 socket for one JEDEC 144 pin EDO SO DIMM of 16, 32, or 64MB
Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator
External keyboard	External keyboard support with option cable 06G8619 or Port Replicator
Pointing / palm rest	TrackPoint® III / no drag cubic keys
Dimensions / weight[2]	11.8 x 9.2 x 2.4" (260 cubic inches) / 7.1 pounds (3.2kg) with battery/disk
Battery - type / life[10]	Li-Ion / non-intelligent / 3.5 hrs
Charge time - on / off	4.2 to 12 hrs / 3.3 hrs
Architecture	Intel® **Triton 430TX**
	PIIX4 (EIDE, USB, PCI to ISA bridge) / TI® **TI1250A** PCMCIA controller
	PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB)
	ISA (audio, diskette, serial, parallel, infrared) / NS PC97338 (FDC, IR, I/O)
Docking station	None
Port replicator	① ThinkPad Enhanced Port Replicator, ② ThinkPad 560 Port Replicator,
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Right column:

WINDOWS 98 PRELOAD[16]

- Microsoft Windows 98 (FAT16)
- Internet Explorer 4.01
- Online User's Guide
- ThinkPad Configuration Program
- Software Select Utility
- Diskette Factory and Utilities
- Artisoft ConfigSafe
- IBM Update Connector
- Puma IntelliSync 97
- Norton AntiVirus (OEM Version)
- IBM Global Network™ (IGN Dialer)
- Netscape Navigator browser
- RingZero Fax Central
- IntelliQuest Registration Mailer
- Ergonomics
- Intuit Expensable
- ThinkPad on the Net
- Personalization Editor
- Lotus SmartSuite 97
- Rand McNally's Trip Maker
- Quicken 98
- ◇ EA Sports PGA Tour Golf CD-ROM
- ◇ Recovery CD-ROM with boot diskette

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Bottom section:

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PC 97 compliant
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System Status Indicators
Plug and Play 1.0a
Standby, suspend, safe suspend (RediSafe), and hibernation modes
ENERGY STAR compliant
International Warranty Service[14]
24 hour / 7 day telephone[30], bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support
IBM and dealer warranty/service

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad in most North American locations, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround)