IBM ThinkPad® i Series 1720 - withdrawn

IBM® ThinkPad®	i Series 1720
Processor	**Intel® Mobile Pentium® II 266MHz**[1] / 66MHz system bus
Processor features	No upgrade / processor, L2 cache, and MTXC (North Bridge) on Intel Mobile Module
L2 cache	**512KB** / sync pipelined burst / ECC / half speed
Diskette drive	Internal 3.5" 1.44MB / removable from UltraBay FX / on right side / integrated with CD-ROM
External FDD port	None since diskette internal
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 diskette drive

All-in-one design means the disk, diskette drive, and CD-ROM are all within the covers of the notebook

Type - model	**2627-720**
UPC code	**0-87944-47526-2**
Disk	**4.3GB**[4] / 13ms read / 14ms write / S.M.A.R.T.[8] / supports two internal disks
Disk controller	EIDE / PCI 2.1 / disk can be removed to upgrade by customer
Avail / withdrawn date	November 1998 / April 2002
Display - size and type	**13.3" TFT color / Active Matrix**
Display - technology	**XGA** / 640x480 or 800x600 or 1024x768 / 30ms / 120 nits
	16.7 million simultaneous colors / 100 to 1 contrast ratio ratio

	LCD	External Monitor		
Resolution	TFT	60Hz	75Hz	85Hz
640x480	16M	16M	16M	16M
800x600	16M	16M	16M	16M
1024x768	16M	16M	16M	16M
1280x1024	--	256	--	--

Graphics - controller	**NeoMagic™ MagicMedia256AV™** (NM2200) / PCI 2.1 / 128-bit engine, 256-bit memory interface / DDC2B / Direct3D
	2.5MB / SDRAM (embedded) / **motion compensation** / color space conversion / interpolation in X and Y axis
Graphics - external	External SVGA to 1024x768 with 16.7 million colors at 85Hz
Graphics - features	Simultaneous LCD and CRT[26] / 150 degree tilt / multiple-monitor support[26]
Memory - std / max	**64MB** / 256MB[17]
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
Keyboard	Full-size 85-key (7 Fn key functions) / keyboard slope with tilt feet /palm rest
Pointing	TrackPoint® / Press-to-Select / Release-to-Select / dragging / click pace
	center button for scrolling (Internet Scroll Bar) or magnifying glass / spare caps

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)
- optional second battery (hot swap); same battery as main one
- optional second disk (cold swap)
- optional ThinkPad Proven™ solutions[12]

Dimensions	12.4 x 10.1 x 1.8" (225 cubic inches)
Weight[2]	7.5 lbs (3.4 kg) with battery and disk
Battery - type / life[10]	Li-Ion / intelligent / 4.25 hrs (1 battery) / left side / supports second battery in UltraBay FX
Charge time[10] - on / off	6 hrs on / 3 hrs off

All models:
- C: drive is FAT16 of 2GB
- D: drive is FAT32 of remaining space

Architecture	**Intel 440BX** PCIset / **Intel PIIX4E** (EIDE, PCI to ISA bridge, USB)
	Texas Instruments® **TI1250A** PCMCIA controller / NS PC97338 (FDC, IR, I/O)
	PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB, audio)
	ISA (audio, diskette, serial, parallel, infrared, modem)
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 / Universal AC adapter; barrel (56 watts)
Video in/out	None
MPEG decoder	None (software support for MPEG-1 in Windows 98)
Data/fax modem	**56K**[3] / V.90 / integrated in system / Lucent 1644 / not voice-capable
Audio	16-bit SoundBlaster Pro™ support / NeoMagic NMA2 / ISA / full duplex
Speakers	Two Altec Lansing® SoundGuide 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** - EasyServ™,[9] onsite pickup and delivery courier service
Service options[15]	On-site, M-F, 8-5, next bus day (72 cities) / service agreements up to 5 years
	from purchase date

4.3GB = Ultra DMA/33 or PIO Mode 4
6.4GB = Ultra DMA/33 or PIO Mode 4
10GB = Ultra DMA/33 or PIO Mode 4
Disks are S.M.A.R.T.[8] compliant

FEATURES

PC 97 compliant
ACPI ready (APM enabled)
Setup Guide, User's Reference, Windows 98 manual, and Quick Reference Card
System Status Indicators
Plug and Play 1.0a
Standby, suspend, and hibernation modes
ENERGY STAR compliant
International Warranty Service[11]
24 hour / 7 day[7] **telephone, bulletin board, electronic, and Internet (www.ibm.com/pc/us) support**

The **ThinkPad Port Replicator with Advanced EtherJet Feature** provides cable management, additional I/O ports, CardBus PC Card slots, and 10/100 ethernet with Wake on LAN®. Features:

- 10/100 ethernet (Intel 82558, Wake on LAN)
- Dual IBM lock slots to secure the ThinkPad, PC Cards, and Port Replicator

Connectors:
- USB, serial (RS-232, 9 pin), parallel (25 pin), external display, keyboard, mouse
- Audio in and out (3.5 mm)
- Joystick/MIDI port (15 pin) - not on system
- External diskette drive connector (no support)
- Power connector

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)
- PCMCIA 2.1 (no Zoomed Video)
- TI 1250A controller
- Requires no PCI-to-PCI bridge

OPTIONS

- 32MB SO DIMM 3.3v NP SDRAM   76H0294
- 64MB SO DIMM 3.3v NP SDRAM   20L0241
- 128MB SO DIMM 3.3v NP SDRAM   01K1150
- ThinkPad 560 Port Replicator   46H4209
- Port Replicator w/ Advanced EtherJet 05K4872
- 6.4GB disk with UltraBay FX adapter   05K8923
  Model number TP923; UPC 0-87944-44543-2
- 10GB disk with UltraBay FX adapter 05K8983
- 12GB disk with UltraBay FX adapter 05K9268
- ThinkPad 390/i Series Li-Ion Battery 02K6513
  Model number TP513; UPC 0-87944-44544-9
- V.90 PC Card Modem with XJACK[3]   10L7393
- IBM Mini-Mouse (black)   07G0033
- DVD/Diskette (for UltraBay FX)   05K8921

- Visit www.ibm.com/pc/us/accessories (U.S.) or www.ibm.com/pc/ca/accessories (CA)
- ThinkPad Proven™ solutions[12] (visit www.ibm.com/pc/us/thinkpad/proven)

Pressing F1 during startup brings up IBM BIOS Setup Utility

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, 5 business day average turnaround). The customer may be asked certain diagnostic questions before a courier is sent.

* For a copy of IBM's Statement of Limited Warranty, call 1-800-772-2227
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