



TP 390X - General Overview

Overview

The ThinkPad 390X, the new family of easy-to-use all-in-one business notebooks, represents an amazing level of technology at an affordable price. Its functionality, connectivity, expandability, and attractive price make it the ideal mobile solution for small and medium businesses and large, budget-conscious enterprises.

All-in-one design

- Integrated diskette drive (FDD)
- 24x-10x (1) variable-speed CD-ROM
- Hard disk drive (HDD)
- Preloaded software
- Easy-to-use desktop alternative

Leading-edge technology

- New, powerful Intel(R) Mobile Celeron (TM) processor at 400 MHz(2) with 128 KB onboard L2 cache memory or Mobile Pentium(R) II processor at 400 MHz with 256 KB onboard L2 cache memory
- Large, brilliant XGA TFT(3) 381-mm (15-in) active matrix, XGA TFT 358-mm (14.1-in) active matrix, or SVGA TFT 308-mm (12.1-in) active matrix displays with vibrant colors
- 64 MB of 64-bit SDRAM memory expandable up to 256 MB (4)
- 4.8 GB(6) or 6.4 GB(5) HDD, expandable or replaceable with optional 6.4 GB or 10.0 GB HDD
- Modem with 56 K(6) technology (for US, LA, CANADA and EMEA only)

System manageability

- Industry standard manageability and Desktop Management Interface (DMI) compliance
- Remote system manageability with Wake on LAN support via the optional Port Replicator with Advanced EtherJet feature
- Update Connector software and Wired for Management compliance
- Asset security features via passwords and locks

Outstanding features

- User upgradeable HDD and memory
- TrackPoint(R) with Press-to-Select, Internet scroll bar, and magnifying glass features for accurate and convenient control.
- Additional optional functions via UltraBay(TM) FX and PC Card slots. With the UltraBay FX, a second battery can be added for almost seven hours (7) of operation, or a second HDD for up to 10.0 GB of storage.
- Universal serial bus (USB) port
- Excellent stereo audio
- Fast CD-ROM

Software

Windows 98 is installed along with a variety of selected applications, including the time-proven Lotus(R) SmartSuite for quick productivity.

Notes

1. Actual playback speed will vary and is often less than the maximum possible.
2. MHz measures only processor internal clock speed, not application performance. Many factors affect application performance.
3. Thin film transistor (TFT) is the technology of the display.
4. The 64 MB card can be replaced by a 128 MB card and a second 128 MB card added for 256 MB memory.
5. GB equals one billion bytes and MB equals one million bytes when referring to hard disk drives. Capacity available for end users may be less.
6. The V.90 modems are designed to be capable of receiving data at up to 56 Kbps from a K56Flex or V.90 service provider, and transmitting data at up to 31.2 Kbps. Public networks currently limit maximum down-load speeds to about 53 Kbps. Actual speeds depend on many factors and are often less than the maximum possible (**US, LA, CAN, and EMEA only**).
7. The customer can obtain an optional Li-Ion battery for the system and either replace the standard NiMH battery when it runs down or use it in the UltraBay FX in conjunction with the NiMH. Up to 6.84 total hours of operation can be expected. See Description Section for discussion of battery testing.

ThinkPad 390X features**LCD display**

This ThinkPad includes the largest active matrix display of any ThinkPad notebook to date -- a large XGA TFT 381-mm (15-in) screen. Other models have an XGA TFT 358-mm (14.1-in) or SVGA TFT 308-mm (12.1-in) screen. Resolutions are shown in the following table. The XGA displays have 1024 x 786 resolution and the SVGA TFT displays have 800 x 600. They all provide excellent viewing capability.

Video modes

390X (2.5 MB VRAM)

	LCD		External Monitor	
Resolution	TFT	85Hz	75Hz	60Hz
640 x 480	16M	16M	16M	16M
800 x 600	16M	16M	16M	16M
1024 x 768	16M	16M	16M	16M
1280 x 1024	N/A	N/A	N/A	256

Keyboard and TrackPoint with Press-to-Select

The keyboard has the familiar layout of a ThinkPad with function keys that allows you to quickly access system functions, such as power management control. Use the TrackPoint with Press-to-Select to select objects by pressing the TrackPoint cap.

Processor

Intel Mobile Celeron processor at 400 MHz with 128 KB of full-speed onboard L2 cache or a Mobile Pentium II processor at 400 MHz with 256 KB full-speed onboard L2 cache.

Memory

Non-parity, 64-bit SDRAM SO DIMM memory. Standard memory of 64 MB is expandable to a maximum of 256 MB with 32 MB, 64 MB, or 128 MB cards. An internal slot is available for one extra memory module for customers who require a memory upgrade. The 64 MB card can be replaced with a 128 MB card and another 128 MB card added to the extra slot for the 256 MB maximum.

PCMCIA

The Type III slot can accommodate either two Type I, two Type II, or one Type III PC card. Both 16-bit and 32-bit cards are supported. Both PCMCIA slots contain a ZV port.

PC Card support software

The auto configurator and memory device driver enable supported PCMCIA cards by sensing them automatically. (PCMCIA cards supported by the auto configurator and memory device driver are listed in the Sales Manual.)

Storage

The standard 6.4 GB or 4.8 MB storage can be expanded optionally with a 10.0 GB HDD. An optional 6.4 GB HDD is also available. Two HDDs can be used concurrently to offer expanded storage. These S.M.A.R.T. HDDs issue an alert if a failure is pending.

MPEG 1

Software MPEG 1 support on Windows 98 systems provides multimedia viewing without such hardware prerequisites as ZV port cards.

Audio

- Excellent sound quality with two stereo speakers, 16-bit stereo audio supporting Sound Blaster Pro
- Built-in stereo speakers and microphone
- Three audio jacks: one for external stereo speakers or headphone, one for an external microphone, and one for line-in
- Volume control

Video

PCI bus support with video acceleration provides exceptional video performance.

Infrared

IR transceiver for wireless file and data transfer and printing. The ThinkPad 390X models are compatible with the Infrared Data Association (IrDA) IR data link specification with speeds up to 4 Mbps.

Preinstalled software provides wireless file transfer, file synchronization, and clipboard data transfer. With the IR feature, data can be exchanged with any system, accessories, or personal digital assistants (PDA) supporting the same specifications and data transfer speed. The IR feature may require the separate purchase of the appropriate hardware.

Battery

Battery life is tested by Business Applications Performance Corporation (BAPCo) SYSmark32 benchmark test and Ziff-Davis BatteryMark, depending on model. Battery life will vary based on many factors including operating systems, screen brightness, applications, features, battery conditioning, power management and other customer preferences.

Other features

Enhanced parallel, SVGA (external display), pointer-keyboard-keypad, serial, and universal serial bus (USB) ports. An additional connector supports the Port Replicator with advanced EtherJet.

Applicable countries and regions

Worldwide

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