IBM ThinkPad® 390E Notebooks

Highlights

All-in-one convenience
The ThinkPad 390E offers a sleek all-in-one design which integrates a diskette, CD-ROM and hard disk drive plus an integrated 56K V.90 modem in a convenient, easy-to-use package.

Performance and affordability
With an Intel® Mobile Pentium® II processor at up to 333MHz or a Mobile Intel Celeron® processor at up to 366MHz, S.M.A.R.T. hard disk drive up to 6.4GB and up to 64MB RAM standard, the new ThinkPad 390E delivers a serious business notebook at a very affordable price.

Versatile portability
The ThinkPad 390E offers incredible flexibility and solid investment protection. In addition to the standard CD-ROM/FDD combo, the versatile UltraBay FX accepts an optional DVD/FDD Combo drive, second hard disk drive with adapter or second battery. The ThinkPad 390E also features easy-to-upgrade hard disk drives and memory, as well as an optional port replicator with IBM Wake on LAN® that supports remote system manageability.

Compelling multimedia
Presentations will come to life with the ThinkPad 390E’s 14.1", 13.3" or 12.1" high resolution active matrix TFT displays with wide viewing angles suitable for group viewing, high-speed CD-ROM drive and dynamic Altec Lansing® stereo speakers.

Easy network connectivity
The ThinkPad 390E is comprehensively tested with network PC Cards and has an integrated 56K modem that keeps you connected wherever your work or travel takes you.
The new feature-packed ThinkPad 390E is an ideal solution for businesses looking for an affordable, easy-to-use, easy-to-manage notebook computer. Designed with flexibility in mind, the new UltraBay FX lets you customize the ThinkPad 390E to carry the tools you need for your business.

Outside the office, the ThinkPad 390E gives you the flexibility to work when and where you want. The integrated 56K modem gives you fast access to the Internet or network. Advanced multimedia features provide a compelling presentation platform with a powerful processor, dynamic stereo speakers, large TFT display, fast CD-ROM or optional DVD drive and superb graphics support. Back at the office, the optional Enhanced Port Replicator with EtherJet™ Feature gives you convenient cable management, expansion capability and network connectivity with remote system manageability via Wake on LAN.

Whether you're looking for a Windows® 98® or a Windows NT® Workstation solution, ThinkPad 390E's technology and IBM's renowned service and support can deliver and protect your investment like no other notebook.

---

**All-in-one convenience and flexibility**

---

### ThinkPad 390E technical specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>390E</th>
<th>390E</th>
<th>390E</th>
<th>390E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel processor</td>
<td>333MHz Mobile Pentium II</td>
<td>Intel Mobile Pentium II</td>
<td>Intel Mobile Pentium II</td>
<td>366MHz Mobile Celeron</td>
</tr>
<tr>
<td>L2 cache</td>
<td>256KB (onboard)</td>
<td>256KB (onboard)</td>
<td>256KB (onboard)</td>
<td>128KB (onboard)</td>
</tr>
<tr>
<td>Display/colors</td>
<td>14.1&quot; TFT/16M</td>
<td>14.1&quot; TFT/16M</td>
<td>13.3&quot; TFT/16M</td>
<td>12.1&quot; TFT/16M</td>
</tr>
<tr>
<td>Resolution</td>
<td>1024x768</td>
<td>1024x768</td>
<td>1024x768</td>
<td>800x600</td>
</tr>
<tr>
<td>Memory</td>
<td>64/256MB</td>
<td>64/256MB</td>
<td>32/256MB</td>
<td>32/256MB</td>
</tr>
<tr>
<td>Hard disk drive</td>
<td>6.4GB upgradable</td>
<td>4.3GB upgradable</td>
<td>3.2GB upgradable</td>
<td>4.8GB upgradable</td>
</tr>
<tr>
<td>CD-ROM drive</td>
<td>24X-10X</td>
<td>24X-10X</td>
<td>24X-10X</td>
<td>24X-10X</td>
</tr>
<tr>
<td>Diskette drive</td>
<td>internal</td>
<td>internal</td>
<td>internal</td>
<td>internal</td>
</tr>
<tr>
<td>Integrated modem</td>
<td>56K V.90</td>
<td>56K V.90</td>
<td>56K V.90</td>
<td>56K V.90</td>
</tr>
<tr>
<td>AGP</td>
<td>yes/yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>Video RAM</td>
<td>2.5MB</td>
<td>2.5MB</td>
<td>2.5MB</td>
<td>2.5MB</td>
</tr>
<tr>
<td>Enhanced audio</td>
<td>Sound Blaster Pro™ support, Altec Lansing® stereo speakers</td>
<td>Sound Blaster Pro support, Altec Lansing stereo speakers</td>
<td>Sound Blaster Pro support, Altec Lansing stereo speakers</td>
<td>Sound Blaster Pro support, Altec Lansing stereo speakers</td>
</tr>
<tr>
<td>Integrated infrared</td>
<td>up to 4Mbps</td>
<td>up to 4Mbps</td>
<td>up to 4Mbps</td>
<td>up to 4Mbps</td>
</tr>
<tr>
<td>Battery type/battery life with second optional battery in UltraBay FX</td>
<td>Li-Ion/3.8 hrs</td>
<td>Li-Ion/4.0 hrs</td>
<td>NiMH/3.0 hrs</td>
<td>NiMH/2.6 hrs</td>
</tr>
<tr>
<td>UltraBay FX</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Preloaded operating system</td>
<td>Windows 98®/Windows NT</td>
<td>Windows 98®</td>
<td>Windows 98®</td>
<td>Windows 98®</td>
</tr>
<tr>
<td>Dimensions</td>
<td>1.8&quot;x12.4&quot;x10&quot;</td>
<td>1.8&quot;x12.4&quot;x10&quot;</td>
<td>1.8&quot;x12.4&quot;x10&quot;</td>
<td>1.8&quot;x12.4&quot;x10&quot;</td>
</tr>
<tr>
<td>Weight</td>
<td>7.7 lbs</td>
<td>7.7 lbs</td>
<td>7.5 lbs</td>
<td>7.5 lbs</td>
</tr>
</tbody>
</table>
Multimedia features
- Mobile Pentium II PE processors or Mobile Celeron processors to run today’s and tomorrow’s applications
- Large, bright active matrix TFT displays up to 14’’ for group presentation viewing
- Accelerated Graphics Port (AGP) for superior graphics performance
- NeoMagic® MagicGraph256AV™ 256-bit video for razor-sharp graphics
- 24X-10X CD-ROM
- Optional DVD drive
- MPEG-1 video playback support
- AltEc Lansing stereo speakers located on display to deliver sound directly to you
- Sound Blaster Pro audio support
- Integrated microphone
- External microphone jack and stereo speaker/headphone jack
- S-Video out for TV

Ease-of-use
- Comfortable, full-size 65-key keyboard with ergonomic palm rest and fold-out feet
- TrackPoint® pointing device with “Press-to-Select” can help you speed program launches and reduce keystrokes
- Internet Scroll Bar to maximize Internet and spreadsheet productivity
- All-in-one convenience with integrated CD-ROM and diskette drive combo or optional DVD/FDD combo drive—no need to carry extra drives and cables
- Online User’s Guide
- Manual volume and brightness control

PC Card support/ports/interfaces
- Two Type II or one Type III PC Card slot support, ZV port enabled, CardBus support
- Standard I/O ports: external monitor up to 1280x1024 resolution, serial, enhanced parallel, infrared, mouse/keyboard, audio I/O, Universal Serial Bus (USB)
- Port replicator connector

Compatible operating systems
- Windows 98, Windows 95, Windows 311, Windows NT 4.0, OS/2® Warp V4

Investment protection
- UltraBay FX holds an optional second hard disk drive up to 10GB, a DVD/FDD Combo drive or second battery
- User-upgradable hard disk drives and memory
- Optional Enhanced Port Replicator with EtherJet™ Feature available
- Optional warranty upgrades

Star tile manageability
IBM’s Universal Manageability tools streamline and automate PC systems management and support tasks leveraging existing system management products in the enterprise. These leading-edge, standards-based PC tools are included in ThinkPad notebooks, helping to reduce Total Cost of Ownership of your networked PCs and allowing you to focus vital company resources on essential business activities.
www.ibm.com/pc/us/software/sysmgmt

Asset protection
- IBM lock slot for optional cable lock system
- Power-on and hard disk drive password support
- Supervisor password
- Recovery CD restores factory preload
- UltraBay FX lock screw

Software
- Lotus® SmartSuite® Millennium: Word Pro® word processor, 1-2-3 spreadsheet, Freelance Graphics, Approach data base, Organizer scheduler and ScreenCam included
- Norton AntiVirus™ (OEM version), ConfigSafe® PC-Doctor, Recovery CD and much more

ThinkPad Proven™ solutions
The following selection of ThinkPad Proven options are suggested to optimize the functionality of your ThinkPad 390E notebook:
- ThinkPad EasyRoller™ Carrying Case from Port, Inc. (TP99840) – to protect your valuable ThinkPad investment.
- Xirlink’s C-it Digital Video Camera with C-it Mail (XVP510) – send video mail, or add video to a presentation.
- CNF, Inc.’s cardport DVD-ROM (10002) – portable, external DVD data solution that easily connects through your PCMCIA slot
- Addonics, Inc. PocketZip™ (100MB) and PocketSuperDisk™ (120MB) – external removable storage drives.
- Compu-Lock, Inc.’s TravAlert Electronic Mobile Alarm System (TA-1) – security in the office, and on the road.
Please visit www.pc.ibm.com/thinkpad/proven for more information and ordering instructions.

The optional Enhanced Port Replicator with EtherJet Feature offers:
- Cable management for convenient connection to desktop peripherals
- Integrated 10/100 EtherJet network interface card
- IBM Wake on LAN support for remote systems management capability
- I/O ports: serial, enhanced parallel, mouse, keyboard, external monitor, audio I/O, MIDI/joystick
- Warm docking
- Two PC CardBus slots that support two Type II or two Type III PC Cards
- Dual IBM lock slots to secure the ThinkPad notebook, the PC Cards and the Port Replicator
- USB port
Options by IBM
Options by IBM offers a wide range of upgrades designed for your ThinkPad notebook with IBM service and support. For a complete list of options visit www.ibm.com/pcc/us/accessories (U.S.) www.ibm.com/pcc/ca/accessories (CA)
- 32MB SDRAM SO DIMM 76H0294
- 64MB SDRAM SO DIMM 20L0241
- 128MB SDRAM SO DIMM 01K1150
- 10GB Hard Disk Drive with Adapter (UltraBay FX) 05K9893
- 6.4GB Hard Disk Drive with Adapter (UltraBay FX) 05K9823
- Li-Ion Battery 02K6513
- 56W AC Adapter 83H6739
- DVD/FDD Combo (UltraBay FX) 05K9821
- Port Replicator 46H4209
- Enhanced Port Replicator with EtherJet Feature 05K4872
- 900MHz Cordless Computer Connection 04K0064
- Turbo 16/14 Token-Ring PC Card (RJ-45) 85H3629
- EtherJet PC Card Combo 10BaseT/2 72H4534
- 10/100 EtherJet CardBus Adapter 0B183147
- SmartCard Security Kit 10L7333

1 These 56K modems are designed to be capable of receiving data at up to 56Kbps from a compatible service provider, and transmitting data at up to 33.6Kbps. Public networks currently limit maximum download speeds to about 53Kbps. Actual speeds depend on many factors and are often less than the maximum possible. Complies with V90/ITU 56K specification as of 208.
2 MHz only measures microprocessor internal clock speed, not application performance. Other factors also affect application performance.
3 Self-Monitoring, Analysis and Reporting Technology
4 GB means billion bytes when referring to hard disk drive capacity. Accessible capacity varies.
5 Delivered with Windows 98 preloaded on the hard disk drive and a Windows 98 Recovery CD in the box. For customers who prefer Windows 95, a Windows 95 Recovery CD is also included for installation of Windows 95. Installation of Windows 95 results in the removal of Windows 98 preloaded.
6 Maximum memory varies depending on model and may require replacement of standard memory with optional maximum memory module.
7 Variable read rate. Actual playback speed will vary and is often less than the maximum possible.
8 Results obtained using BAPCo’s Business Applications Performance Corporation’s 95/95 Benchmark Test. Battery life (and recharge times) will vary based on many factors including screen brightness, application features, power management, battery conditioning and other customer preferences. Battery life may be less using Windows NT.
9 Includes battery, weight may vary due to vendor components, manufacturing process and options.
10 Level of support varies by operating system. Operating systems not preloaded on the system may not provide full-featured functionality. Please refer to www.pc.ibm.com/support, select a notebook brand, click on “Product Information,” choose your machine type, then click on “Product Limitations.”
11 Service options available based on specific ThinkPad notebook purchased; details available via fax by calling 1 800 426-3395 and requesting document # 11017 or call your IBM authorized reseller for additional information.
12 Some software may differ from its retail version (if any) and may not include user manuals or all program functionality. Warranty, service and support for non-IBM products are provided directly to you by third parties, not IBM. IBM makes no representations or warranties regarding non-IBM products. For non-IBM software applicable third-party software licenses may apply.
13 IBM makes no warranties, expressed or implied, regarding ThinkPad Proven products and services, including Year 2000 readiness and any implied warranties of merchantability or fitness for a particular purpose.
14 For terms and conditions or a copy of IBM’s Statement of Limited Warranty, call 1 800 772-2227 in the U.S. and in Canada, 1 888 862-2055.
15 Available in those countries where IBM and IBM resellers sell and service ThinkPad products. Registration required. Service level is based on the standard service for ThinkPad notebooks in that particular country.
16 The customer may be asked certain diagnostic questions before a courier is sent. Your ThinkPad purchase includes this depot repair service during the warranty period. It is available after the warranty period for an additional charge. Available in the United States for no additional charge during the warranty period.
17 SystemXtra is available to commercial and state and local government customers with valid credit. Leasing is based on a minimum qualifying level of $1000 of IBM Personal Systems Group hardware. Program is subject to change without notice. Additional terms, conditions and limitations may apply. IBM Global Financing offerings are made available through IBM Credit Corporation in the US and other IBM subsidiaries and divisions worldwide.

IBM Personal Systems Group

© International Business Machines Corporation 1999
Produced in the United States of America

June 1999

PC Data Vaulting

© International Business Machines Corporation 1999

World Wide Web
Canada www.ibm.com/pcc/ca/thinkpad

IBM Fax Information Service
U.S. 1 800 426-7255 ext. 4751
Canada 1 800 426-2255

Get Year 2000 Ready