

*Affordable easy-to-use business notebooks*



## IBM ThinkPad® 390E Notebooks

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### Highlights

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#### **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<sup>1</sup> V.90 modem in a convenient, easy-to-use package.

**NEW!**

#### **Performance and affordability**

With an Intel® Mobile Pentium® II processor at up to 333MHz<sup>2</sup> or a Mobile Intel Celeron™ processor at up to 366MHz, S.M.A.R.T.<sup>3</sup> hard disk drive up to 6.4GB<sup>4</sup> and up to 64MB RAM standard, the new ThinkPad 390E delivers a serious business notebook at a very affordable price.

#### **Versatile portability**

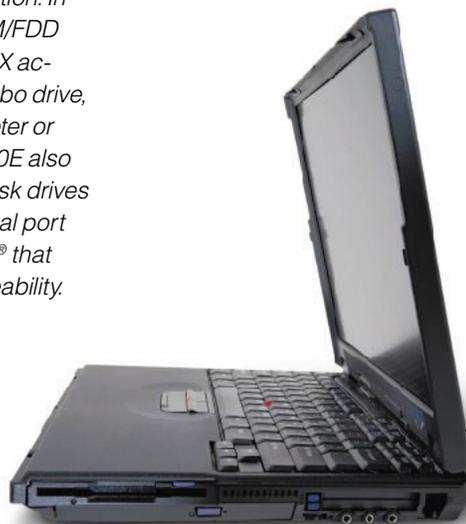
The ThinkPad 390E offers incredible flexibility and solid investment protection. In addition to the standard CD-ROM/FDD combo, the versatile UltraBay™ FX accepts an optional DVD/FDD Combo drive, second hard disk drive with adapter or second battery. The ThinkPad 390E also features easy-to-upgrade hard 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.



ThinkPad®

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## All-in-one convenience and flexibility

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<sup>5</sup> 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.



**UltraBay FX**  
(with CD-ROM/FDD combo drive)

### ThinkPad 390E technical specifications

	390E	390E	390E	<b>NEW!</b> 390E
<b>Model 2626-</b>	E0U/ENU	D0U	C0U	B0U
<b>Intel processor</b>	333MHz <sup>2</sup> Mobile Pentium II	300PE MHz Mobile Pentium II	300PE MHz Mobile Pentium II	366MHz Mobile Celeron
<b>L2 cache</b>	256KB (onboard)	256KB (onboard)	256KB (onboard)	128KB (onboard)
<b>Display/colors</b>	14.1" TFT/16M	14.1" TFT/16M	13.3" TFT/16M	12.1" TFT/16M
<b>Resolution</b>	1024x768	1024x768	1024x768	800x600
<b>Memory (std/max)</b>	64/256MB <sup>6</sup>	64/256MB	32/256MB	32/256MB
<b>Hard disk drive</b>	6.4GB <sup>4</sup> upgradable	4.3GB upgradable	3.2GB upgradable	4.8GB upgradable
<b>CD-ROM drive</b>	24X-10X <sup>7</sup>	24X-10X	24X-10X	24X-10X
<b>Diskette drive</b>	internal	internal	internal	internal
<b>Integrated modem<sup>1</sup></b>	56K <sup>1</sup> V.90	56K V.90	56K V.90	56K V.90
<b>AGP</b>	yes/yes	yes	yes	yes
<b>Video RAM</b>	2.5MB	2.5MB	2.5MB	2.5MB
<b>Enhanced audio</b>	Sound Blaster Pro™ support, Altec Lansing® stereo speakers	Sound Blaster Pro support, Altec Lansing stereo speakers	Sound Blaster Pro support, Altec Lansing stereo speakers	Sound Blaster Pro support, Altec Lansing stereo speakers
<b>Integrated infrared</b>	up to 4Mbps	up to 4Mbps	up to 4Mbps	up to 4Mbps
<b>Battery type/battery life<sup>8</sup> with second optional battery in UltraBay FX</b>	Li-Ion/3.8 hrs 76 hrs	Li-Ion/4.0 hrs 8.0 hrs	NiMH/3.0 hrs 7.5 hrs	NiMH/2.6 hrs 6.8 hrs
<b>UltraBay FX</b>	Yes	Yes	Yes	Yes
<b>Preloaded operating system</b>	Windows 98 <sup>5</sup> /Windows NT	Windows 98 <sup>5</sup>	Windows 98 <sup>5</sup>	Windows 98 <sup>5</sup>
<b>Dimensions</b>	1.8"x12.4"x10"	1.8"x12.4"x10"	1.8"x12.4"x10"	1.8"x12.4"x10"
<b>Weight<sup>9</sup></b>	7.7 lbs	7.7 lbs	7.5 lbs	7.5 lbs

## Key features and benefits

### **NEW! 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 14.1" for group presentation viewing
- Accelerated Graphics Port (AGP) for superior graphics performance
- NeoMagic® MagicGraph256AV™ 256-bit video for razor-sharp graphics
- 24X-10X7 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 85-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 convenience

### **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<sup>10</sup>**

- Windows 98, Windows 95, Windows 3.11, 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<sup>11</sup>

### **Stellar 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](http://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<sup>12</sup>**

- 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<sup>13</sup>**

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](http://www.pc.ibm.com/thinkpad/proven)** for more information and ordering instructions.

## The ideal desktop alternative



### **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/joyystick
- 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/pc/us/accessories](http://www.ibm.com/pc/us/accessories) (U.S.)

[www.ibm.com/pc/ca/accessories](http://www.ibm.com/pc/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)	05K8983
• 6.4GB Hard Disk Drive with Adapter (UltraBay FX)	05K8923
• Li-Ion Battery	02K6513
• 56W AC Adapter	83H6739
• DVD/FDD Combo (UltraBay FX)	05K8921
• Port Replicator	46H4209
• Enhanced Port Replicator with EtherJet Feature	05K4872
• 900MHz Cordless Computer Connection	04K0064
• Turbo 16/4 Token-Ring PC Card (RJ-45)	85H3629
• EtherJet PC Card Combo 10BaseT/2	72H4534
• 10/100 EtherJet CardBus Adapter	08L3147
• SmartCard Security Kit	10L7333

## IBM service and support

- One-year limited warranty<sup>14</sup>
- International Warranty Service<sup>15</sup>
- EasyServ<sup>TM16</sup> depot repair service via courier
- Toll-free hardware support during the warranty period
- Web-based support
- Service options<sup>11</sup> to provide up to five years of service coverage from date of ThinkPad notebook purchase (including warranty period). Service options must be purchased during the original product warranty period.

## IBM SystemXtra<sup>®</sup>

SystemXtra is designed to help qualified customers make the most of their ThinkPad notebook investment by combining a host of technologies, services, software, training and convenient financing.<sup>17</sup> For more information, visit

[www.ibm.com/pc/us/systemxtra](http://www.ibm.com/pc/us/systemxtra)

or call your IBM authorized reseller for additional information.

<sup>12</sup> 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.

<sup>13</sup> 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.

<sup>14</sup> 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, call 1 800 426-2255.

<sup>15</sup> 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.

<sup>16</sup> 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.

<sup>17</sup> SystemXtra is available to commercial and state and local government customers with valid credit. Leasing is based on a minimum qualifying level of \$1,000 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.

As an ENERGY STAR Partner, IBM has determined that this product meets the ENERGY STAR guidelines for energy efficiency. ENERGY STAR is a U.S. registered mark.

## PC Data Vaulting

Safeguard your valuable data with IBM's automated, online data backup and real-time recovery solution for fast-paced mobile users. In North America, visit [www.ibm.com/pc/us/thinkpad/datavault.html](http://www.ibm.com/pc/us/thinkpad/datavault.html) for more information.

## Need more information?

### World Wide Web

U.S. [www.ibm.com/pc/us/thinkpad](http://www.ibm.com/pc/us/thinkpad)  
Canada [www.ibm.com/pc/ca/thinkpad](http://www.ibm.com/pc/ca/thinkpad)

### IBM Fax Information Service

U.S. 1 800 IBM-3395  
ThinkPad Information Directory Doc #11078

### Product and Dealer Location Information

U.S. 1 800 426-7255 ext. 4751  
Canada 1 800 426-2255

## Get Year 2000 Ready

[www.ibm.com/pc/year2000](http://www.ibm.com/pc/year2000)

<sup>1</sup> 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 31.2Kbps. 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 V.90 ITU 56K specification as of 2/98.

<sup>2</sup> MHz only measures microprocessor internal clock speed, not application performance. Other factors also affect application performance.

<sup>3</sup> Self-Monitoring, Analysis and Reporting Technology.

<sup>4</sup> GB means billion bytes when referring to hard disk drive capacity. Accessible capacity varies.

<sup>5</sup> 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 preload.

<sup>6</sup> Maximum memory varies depending on model and may require replacement of standard memory with optional maximum memory module.

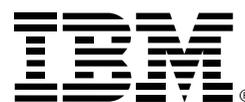
<sup>7</sup> Variable read rate. Actual playback speed will vary and is often less than the maximum possible.

<sup>8</sup> Results obtained using BAPCo (Business Applications Performance Corporation) SYSmark Benchmark Test. Battery life (and recharge times) will vary based on many factors including screen brightness, applications, features, power management, battery conditioning and other customer preferences. Battery life may be less using Windows NT.

<sup>9</sup> Includes battery; weight may vary due to vendor components, manufacturing process and options.

<sup>10</sup> Level of support varies by operating system. Operating systems not preloaded on the system may not provide full-feature functionality. Please refer to [www.pc.ibm.com/support](http://www.pc.ibm.com/support), select a notebook brand, click on "Product Information," choose your machine type, then click on "Product Limitations."

<sup>11</sup> Service options available based on specific ThinkPad notebook purchased; details available via fax by calling 1 800 426-3395 and requesting document #11017



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