

Extra-light, extra-small ultraportable notebook



## IBM ThinkPad X Series notebooks



**CNET**  
Editors' Choice Award,  
May 2001

### Highlights

- **Carry nearly nothing: this ultraportable notebook starts at 3.4 lb<sup>1</sup> and about 1" thin<sup>2</sup>, still features a 12.1" display**
- **Simplify setup and management of communications with Access Connections**
- **Work where you want with integrated wireless (requires wireless LAN) and embedded security on select models for more secure communications**
- **Rely on HelpCenter<sup>®</sup> support available worldwide, 24 hours a day, 7 days a week<sup>3</sup>**

### Small package, big performance

Constantly on the move? Spending most working time away from the office? Traveling users will appreciate a ThinkPad<sup>®</sup> X Series notebook, packed with features for users on the move, including a new powerful, low-voltage Intel<sup>®</sup> processor up to 800MHz<sup>4</sup> and an amazing 5 hours of battery life<sup>5</sup>.

### The ThinkPad e-xperience

ThinkPad X Series notebooks are designed to make computing simpler and easier to manage. A Titanium Composite top cover, the ThinkPad Button and common docking and options across ThinkPad Series<sup>®</sup> work together to provide a better e-xperience.

**NEW!**

### Freedom from your desk

Integrated, Wi-Fi-certified 802.11b wireless technology on select ThinkPad X Series notebooks provides a wireless connection to information on an access point-equipped network. Rigorous testing won these systems Wi-Fi certification, the industry symbol of interoperability. Plus, Access Connections lets you save your connectivity settings and easily switch between modem, Ethernet and wireless.

**NEW!**

### Trusted communications

The IBM Embedded Security Subsystem (IBM Client Security Software 2.0 download required) on select ThinkPad X Series notebooks helps safeguard your data and Internet communications by encrypting files on the hard disk drive and storing encryption keys and passwords right in the existing hardware, where they are best protected. (Communications encryption requires third-party software.)

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## ThinkPad X Series features



## The ThinkPad e-xperience

- 1 UltraPort connector** is in a better location for more options like the **NEW!** IBM UltraPort Camera II or Bluetooth™ UltraPort Module from IBM.
- 2 Titanium Composite cover** is up to 3 times stronger than ABS plastic<sup>7</sup> while maintaining a thin and light design.
- The ThinkPad Button launches **Access ThinkPad** to simplify access to online<sup>8</sup> and on-system resources, including Access Connections connectivity management software and award-winning service and support.
- 4 NEW! The IBM Embedded Security Subsystem** (IBM Client Security Software 2.0 download required) helps protect data locally and works with third-party software to help secure communications (select models).
- 5 NEW! IrDA port** allows you to easily sync with your handheld device.
- 6 IBM keyboard** with standard-size<sup>9</sup> keys, individual volume control and TrackPoint® pointing device with Internet Scroll Bar provides comfort and ease.
- 7 ThinkLight keyboard light**, unique to IBM ThinkPad notebooks, lets you work in low-light conditions.
- 8 Integrated 802.11b wireless technology with dual-antenna system** (select models) built into either side of the display provides strong signal performance<sup>10</sup>.
- 9 Flexible docking options**—common to ThinkPad X, T, R and A Series notebooks:
  - ThinkPad Port Replicator—easy cable management
  - ThinkPad Dock—cable management plus simple desktop expansion including an Ultrabay™ 2000
- 10 Optional UltraBase X2 media slice**—easy-to-carry expansion slot includes an Ultrabay 2000 for CD-RW/DVD Combo drive and other media and storage devices.
- 11 RJ-11 and RJ-45 ports** eliminate the need for cable or card swapping to get connected on select models with integrated Ethernet and a V.92-ready modem.

## ThinkPad X Series specifications

<b>Machine type</b>	2662 (9EU, 9DU, 97U, 9GU, 95U, 9BU, 92U, 9AU)	2662 (8BU, 85U)
<b>Processor/Level 2 cache<sup>11</sup></b>	<b>NEW!</b> ● at 800MHz/512KB	● at 733MHz/512KB
<b>Display/resolution</b>	12.1" TFT XGA (1024x768)	12.1" TFT XGA (1024x768)
<b>Hard disk drive</b>	20GB <sup>12</sup>	10GB
<b>Memory (std/max)<sup>13</sup></b>	128MB/640MB PC133 SDRAM	128MB/640MB PC133 SDRAM
<b>Video graphics (chip)</b>	8MB SGRAM ( <b>NEW!</b> ATI Rage Mobility M6)	8MB SGRAM (ATI Rage Mobility M6)
<b>Communications</b>	9EU, 9DU: 802.11b wireless, 56K <sup>14</sup> modem*, 10/100 Ethernet 97U, 9GU, 95U, 9BU: 56K modem*, 10/100 Ethernet 92U, 9AU: 56K modem*	56K modem*, 10/100 Ethernet
<b>Battery type/battery life<sup>5</sup></b>	92U, 9AU: Li-Ion/5.0hr 97U, 9GU, 95U, 9BU: Li-Ion/4.6hr 9EU, 9DU: Li-Ion/4.4hr	Li-Ion/2.7hr
<b>Ports</b>	infrared, RJ-11, RJ-45, 2 USB, headphone, line-in and microphone, external monitor, UltraPort connector	
<b>Slots</b>	1 Type II PC Card, CompactFlash	1 Type II PC Card, CompactFlash
<b>IBM Embedded Security Subsystem</b>	97U, 9GU: yes 9EU, 9DU, 95U, 9BU, 92U, 9AU: no	no
<b>Titanium Composite cover</b>	top	top
<b>Keyboard</b>	ergonomic keyboard (85 keys, 18.5mm vertical stroke and 18.2mm horizontal key pitch, 2.5 mm stroke) with palm rest, TrackPoint pointing device with "Press-to-Select" and Internet Scroll Bar	
<b>Dimensions<sup>2</sup></b>	11"x8.9"x0.98-1.2"	11"x8.9"x0.98-1.2"
<b>Weight<sup>1</sup></b>	97U, 9GU, 95U, 9BU, 92U, 9AU: 3.6 lb 9EU, 9DU: 3.7 lb	3.4 lb
<b>Port Replicator/Dock support</b>	yes	yes

**NEW!** ● Mobile Intel Pentium® III Processor-M

\*V.92-ready

## Software

<b>Preloaded operating system<sup>15</sup></b>	9EU, 97U, 95U, 92U: WXP 9DU, 9GU, 9BU, 9AU: W2000	8BU: WXP 85U: W2000
<b>Supported operating systems<sup>16</sup></b>	WXP, 2000, Windows® 98 Second Edition, Windows 95, Windows NT®	
<b>Included software<sup>17</sup></b>	<ul style="list-style-type: none"> <li>• Access ThinkPad <ul style="list-style-type: none"> <li>– Access Connections</li> <li>– Access Help</li> </ul> </li> <li>• ConfigSafe</li> <li>• PC Doctor</li> <li>• ThinkPad Utilities</li> <li>• IBM Backup and Restore</li> <li>• IBM Data Transfer</li> <li>• Universal Manageability (UM Services™)</li> <li>• Update Connector™<sup>18</sup></li> <li>• IBM Client Security Software 2.0 (security subsystem models only)</li> <li>• Lotus® SmartSuite® Millennium (CD not included)</li> </ul>	
(preloaded)		
(downloadable)		
(license)		

**NEW!** WXP=Microsoft® Windows XP Professional

W2000=Windows 2000 Professional

### Comprehensive support included with your purchase

- Limited warranty of one or three years\*\*
- Personalized Web-based support<sup>20</sup>
- International Warranty Service<sup>21</sup>
- 24x7 toll-free hardware support<sup>3</sup> during the warranty period
- EasyServ™ onsite pickup and delivery<sup>22</sup>

\*\*See page 6 for additional warranty information<sup>19</sup>.

## Manageability services<sup>23</sup>

### Installation Services Plus Data Migration

Get your new systems up and running with ServicePac® for Installation Plus Data Migration. Basic and enhanced services let you pick the level of service you need. Both offer data migration to get your new systems functioning like your old systems quickly. Visit [ibm.com/services/its/us/ss-spinstl.html](http://ibm.com/services/its/us/ss-spinstl.html) for more information.

### Data Migration Kits

Easily move the data from your old system to your new system with an IBM Data Migration Kit. These kits include the hardware and software necessary to transfer the data files and personal settings from your old computer. Visit [ibm.com/pc/services](http://ibm.com/pc/services) for more information.

### Easier long-term deployment

IBM ThinkPad notebooks offer workhorse and global models for stable and easy long-term deployment. Visit [ibm.com/pc/workhorse](http://ibm.com/pc/workhorse) for more information.

## Wireless communications made easy

Get more freedom to work how you want, where you want with the wide range of Wi-Fi-certified IBM wireless PC offerings and services.

### Select ThinkPad notebooks

Integrated 802.11b wireless technology with a dual-antenna system built into the display cover for increased signal strength.

### Wireless accessories

Add wireless connectivity to any ThinkPad notebook without rewiring your network with the IBM High Rate Wireless LAN PC Card 128 and the IBM High Rate Wireless LAN Access Point 500 or IBM High Rate Wireless LAN Gateway.

### Access Connections

Software to simply connect to your network, whether in the office or on the move, wired or wireless.

Visit [ibm.com/pc/wireless](http://ibm.com/pc/wireless) for more information.

## The first to integrate a security chip in a PC<sup>24</sup>

### IBM Embedded Security Subsystem

Integrated security chip and IBM Client Security Software 2.0 work together to provide levels of security not previously available.

### Security chip

Hardware-based protection of critical security information, including passwords, encryption keys, and electronic credentials helps to keep them safe from sniffers, Trojan Horses and other potential invaders.

### IBM Client Security Software V. 2.0

Provides the interface between security-aware applications and the functionality of the chip. In addition, it supports a variety of the latest peripheral security devices that control access to the notebook itself (downloadable).

## Additional services

### Warranty Service Upgrades<sup>25</sup>

Up to three years onsite labor (now available anywhere in the continental U.S.) coverage from date of ThinkPad notebook purchase (including warranty period\*\*). Visit [ibm.com/pc/services/](http://ibm.com/pc/services/) for applicable terms and conditions or call your authorized reseller for additional information.

### IBM Mobile and Wireless Services

Helps customers turn wireless technology into tangible business advantage (U.S. only). Visit [ibm.com/services/its/us/mobilew](http://ibm.com/services/its/us/mobilew) for more information.

\*\*See page 6 for additional warranty information<sup>19</sup>.

*“Big Blue has created a **big winner** with its ThinkPad X21. This system can easily morph from an **ultimate ultralight** into a loaded notebook dream machine.”*

—*CNET Editors' Choice Award, 2001*

## ThinkPad Proven solutions

Complementary to IBM options are additional third-party accessories from ThinkPad Proven™ and WorkPad® Proven partners<sup>26</sup>. Proven products are tested, warranted and supported by the manufacturer to ThinkPad and WorkPad compatibility standards. Visit [ibm.com/ww/thinkpad/proven](http://ibm.com/ww/thinkpad/proven) for a complete list.

**Apricorn, Inc.**—EZ-FireDrive, the IEEE 1394 Hard Disk Drive for high-speed storage and backup (use with IBM IEEE 1394 CardBus Card option-19K5679)

**C-Pen**—600C/800C “electronic highlighter” which captures, edits, translates and sends text to your ThinkPad notebook via infrared or serial cable

**Margi, Inc.**—Display-to-Go 4MB PC Card adapter enables multiple display operation

**MobileStar Network Corporation and Wayport, Inc.**—802.11b wireless service providers (use with integrated 802.11b wireless technology or IBM High Rate Wireless LAN PC Card 128-09N9904)

**Novatel Wireless, Inc.**—Merlin PC Card modem for CDPD for ThinkPad notebooks operates as a wireless wide-area Network Interface Card (NIC) or a Dial-Up Networking (DUN) modem interface (wireless service sold separately)

**PORT, Inc.**—carrying cases customized for ThinkPad X Series notebooks; ThinkPad Alpha Executive case and ThinkPad Alpha Rolling case



\*Tested, warranted and supported by manufacturer to ThinkPad Compatibility Standards.



\*Tested, warranted and supported by manufacturer to WorkPad Compatibility Standards.

## Customize your ThinkPad notebook

### UltraBase X2 media slice

08N1180



Removable storage in a snap travels light, with an integrated Ultrabay 2000. The UltraBase also includes a diskette drive, stereo speakers and additional ports and packs away neatly in checked luggage so it won't weigh you down.

### IBM MicroPortable Data/Video Projector

0037-A02



Travel light with one of the world's lightest projectors: weighing 3 lb with striking XGA (1024x768) resolution and bright, 1100 lumens. Or, choose the IBM ValueBased Data/Video Projector or IBM Conference Room Data/Video Projector.

**NEW!**

### IBM 32MB USB Memory Key

22P5296



Carry presentations up to 32MB on your keychain with this unique, new storage option. Access from any USB-equipped system. Also available: IBM 8MB USB Memory Key.

**NEW!**

### ThinkPad Ultraportable 56W AC Adapter

02K6880



Lighten your load with this smallest and lightest of IBM adapters. Or, keep one adapter at home and one in the office. Also keep the power flowing with a full line of IBM power accessories: batteries, adapters and chargers.

**NEW!**

### IBM USB Serial Parallel Adapter

22P5298



Slip an IBM USB Serial Parallel Adapter in your bag for easy connectivity to printers and PDAs.

### ThinkPad CD-RW/DVD Combo Ultrabay 2000 Drive

08K9572



Combine two drives in one, slim form factor for low-cost, high-capacity read/write storage. Or, select from the expanding range of IBM ThinkPad Ultrabay 2000 devices, including: SuperDisk (LS-240), Zip 250MB, 8X/4X/24X<sup>27</sup> Max CD-RW and 8X-3X DVD-ROM drives.

### IBM UltraPort Camera II

04P6135



Take digital pictures and video with the IBM UltraPort Camera II, designed to connect in a snap without cables. Accompanying software includes video e-mail, conferencing, image editing and security functions. Or, choose the IBM UltraPort Digital Array Microphone, IBM UltraPort Compact Flash Reader and Bluetooth UltraPort Module from IBM.

### IBM High Rate Wireless LAN Access Point 500

09N9906



Add this "wireless bridge" between your existing wired Ethernet infrastructure and wireless-enabled clients. Also available: IBM High Rate Wireless LAN PC Card 128 and IBM High Rate Wireless LAN Gateway.

Options by IBM offers a wide range of accessories and upgrades designed to work with your ThinkPad notebook. For a complete list of options and compatibility information, visit [ibm.com/options](http://ibm.com/options) (U.S.) or [ibm.com/pc/ca/accessories](http://ibm.com/pc/ca/accessories) (Canada).

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- <sup>1</sup> Includes battery; weight may vary due to vendor components, manufacturing process and options.
- <sup>2</sup> Thickness may vary at certain points on the system.
- <sup>3</sup> Response times may vary. May exclude some holidays.
- <sup>4</sup> For Mobile Intel Pentium III processors featuring Intel SpeedStep™ technology, this denotes maximum performance mode; battery optimization mode is approximately 80% of maximum performance mode.
- <sup>5</sup> These model numbers achieved a Ziff Davis BatteryMark™ Version 4.01 Battery Rundown Time of the times shown above. This test was performed without independent verification by Ziff Davis Media, Inc.; Ziff Davis makes no representations or warranties as to these test results. A description of the environment under which the test was performed is available at [ibm.com/pc/ww/thinkpad/batterylife.html](http://ibm.com/pc/ww/thinkpad/batterylife.html). Battery life (and recharge times) will vary based on many factors including screen brightness, applications, features, power management, battery conditioning and other customer preferences.
- <sup>6</sup> ThinkPad R Series models support the ThinkPad Port Replicator only.
- <sup>7</sup> As tested using the high flex modulus test.
- <sup>8</sup> Requires Internet access account, available separately.
- <sup>9</sup> Alphanumeric typing keys are spaced 18.5mm vertically and 18.2mm horizontally, which is defined as full-size by ISO/IEC 15412 and key displacement (stroke) is 2.5mm.
- <sup>10</sup> Requires compatible wireless-enabled peripherals, not included.
- <sup>11</sup> At processor speed.
- <sup>12</sup> GB equals 1,000,000,000 bytes when referring to hard disk drive capacity. Accessible capacity may be less.
- <sup>13</sup> Maximum memory varies depending on model and may require replacement of standard memory with optional maximum memory module.
- <sup>14</sup> Designed to be capable of receiving data at up to 56Kbps with compatible phone line and server equipment, and transmitting data at up to 31.2Kbps. Public networks currently limit download speeds to about 53Kbps. Actual speeds vary and are often less than the maximum possible.
- <sup>15</sup> Delivered with Windows 2000 or Windows XP Professional preloaded and a Recovery Partition on the hard disk drive.
- <sup>16</sup> Level of support varies by operating system. Operating systems not preloaded on the system may not provide full feature functionality. Please refer to [ibm.com/pc/support](http://ibm.com/pc/support) and select Notebooks and PC Companions from the "Browse the Support Site" dropdown or enter your machine type and model number for more information.

## Need more information?

### World Wide Web

ThinkPad home

[ibm.com/thinkpad](http://ibm.com/thinkpad)

### Personal Computing Webcasts

[ibm.com/thinkpad/webcast](http://ibm.com/thinkpad/webcast)

### Services

[ibm.com/services/its/us/thinkpads.html](http://ibm.com/services/its/us/thinkpads.html)

### Buy Direct

1 888 SHOP IBM

### Reseller locator

U.S.

1 800 IBM-4968

Canada

1 800 IBM-2255

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

### IBM Trade-in program

1 781 320-0123



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