

ThinkPad Z60t notebook models feature high performance in a lightweight package

Overview

The ThinkPad® Z60t notebook computer is the ideal solution for frequent travelers who need high performance and a wide screen in a lightweight package. Models also include a titanium top cover.

Unique data protection

The most secure notebooks available are now even better.

Integrated fingerprint reader technology on selected models helps to prevent unauthorized access to your ThinkPad notebook and data.

- Fingerprint reader is integrated into the palm rest.
- When combined with the integrated fingerprint reader with Password Manager and the Embedded Security Subsystem, you have strong security measures that are easy to use.
- Fingerprint reader offers users a convenient solution that you authenticate at system startup and then log on to Windows™ with a swipe of your finger.

The Active Protection System™, a ThinkVantage™ technology, helps protect your HDD from some damage that could be caused by shock. A system board-mounted sensor continuously monitors your ThinkPad notebook for sudden movement, and temporarily parks the HDD read/write head when a fall or similar event is predicted.

Intel® technology

- Intel Pentium® M processor family
- Intel 915GM chipset family
- Integrated Intel Graphics Media Accelerator 900 graphics for clear images
- Long battery operation: Up to 5.0 hours⁸ with the seven-cell system battery; and up to 7.4 hours with

the seven-cell system battery and Ultrabay™ Slim Li-Polymer battery option

- ThinkPad 11a/b/g Wi-Fi wireless
- UltraConnect antenna to help optimize frequency coverage and performance for improved wireless LAN connectivity around the world when used with compatible options
- ThinkVantage Access Connections utility to help manage wired and wireless communications (if applicable)
- ThinkVantage Rescue and Recovery™ 3.0
- 356-mm (14.0-in) widescreen TFT display with 1280 x 768 resolution
- Microsoft™ Windows XP Professional with selected applications
- Ultrabay Slim for fast and easy hot- and warm-swapping of selected options

Light and portable

The ThinkPad Z60t notebook is approximately 26.6 to 30.9 mm (1.05 to 1.22 in) thin⁹ with optimal travel weight starting at 1.89 to 2.16 kg (4.17 to 4.77 lb)¹⁰.

Robust system manageability: The ThinkPad Z60t notebook features support for IBM Director Agent and is designed to the PXE 2.1 manageability requirements for mobile systems.

Availability date

February 28, 2006

At a glance

The ThinkPad Z60t notebook features:

- Intel Pentium M processor 760 (2.0 GHz, 2 MB L2 cache, 533 MHz front-side bus (FSB))
- Enhanced Intel SpeedStep technology¹ with two performance modes
- All models include PC2-4200 double data rate 2 (DDR2) SDRAM 533 MHz SO DIMM memory
- 80 GB HDD at 5400 rpm²
- 24x-24x-24x-8x max CD-RW/DVD^{3,4}
- Choice of communications:
 - 56K⁵ V.90⁶ modem (V.92-designed), IEEE 1394 and 1 Gigabit Ethernet LAN connection
 - Integrated ThinkPad 11a/b/g Wi-Fi⁷ wireless technology
- UltraNav dual-pointing system featuring TrackPoint® and customized touch pad, and Embedded Security Subsystem 2.0, Trusted Computing Group (TCG)-compliant

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Description

ENERGY STAR: All ThinkPad notebook models are designed to meet the EPA ENERGY STAR¹¹ requirements for using less than 15 watts of power in sleep mode when enabled by the power management software provided with the systems.

Unique data protection: Selected models include integrated fingerprint reader technology from ThinkVantage technologies to help protect unauthorized access to your ThinkPad notebook and data.

- Because fingerprints are unique, using them along with other security measures can provide strong security.
- The fingerprint reader is built right into the palm rest area of the computer. When the fingerprint reader is used with Password Manager and the Embedded Security subsystem, you may pass your finger over the reader instead of typing passwords or combine the reader with passwords. Security software is preloaded for an integrated solution out of the box.
- Administrators can implement strong security policies and users can meet ongoing password requirements easily.

ImageUltra™ services: Selected ThinkPad notebooks are enabled for ImageUltra.

For more information, visit

<http://www.pc.ibm.com/us/think/thinkvantagetech/imageultra.html>

ThinkPad Z60t features

Leadership design

- The Active Protection System, a ThinkVantage technology, which includes a shock absorber to help prevent some HDD crashes that can occur when the system is placed on a hard surface while in use
- UltraConnect antenna to help optimize frequency coverage and performance for improved wireless LAN connectivity around the world; support for 2.4 GHz frequency band for 802.11b networks and four sub-bands in 5 GHz frequency band to meet unique country spectrum requirements for 802.11a networks
- Intel Graphics Media Accelerator 900 for clear images
- ThinkVantage Access Connections software to easily manage wired and wireless connections
- Disk-to-disk recovery of preloaded software
- 533 MHz FSB on Pentium M models
- PC2-4200 DDR2 SDRAM 533 MHz SO DIMM memory
- Embedded Security Subsystem 2.0 (TCG-compliant)
- ThinkPad Wi-Fi-certified (based on IEEE 802.11a/b/g)

Wi-Fi wireless lets you connect to a LAN without wires or cables. To connect to the Internet, the Cisco AP1200 or similar device, and an Internet connection are required. This product has been tested and certified to be interoperable by the Wireless Ethernet Compatibility Alliance and is authorized to carry the Wi-Fi logo.

Processor technology: The new ThinkPad Z60t notebook computer features the Intel Pentium M processor 760. The new ThinkPad Z60t notebook computer features the and floating-point decimal for exceptional performance. All models include enhanced Intel SpeedStep technology with two performance modes:

- Maximum performance mode for top performance while connected to ac external power using the ac power adapter.
- Battery-optimized performance mode for balance between performance and battery life when operating on battery power. In this mode, the processor speed is reduced to conserve battery power.

Security and manageability

- Designed to the PXE 2.1 manageability requirements for mobile systems
- Supports IBM Director Agent, a comprehensive set of superior, standards-based PC hardware manageability tools that work with and complement existing systems management products
- Compliant with the industry-standard Common Information Model
- Has local and remote asset management, and early detection of HDD failure via IBM Director Agent
- Includes remote setup and low-level maintenance via IBM Remote Deployment Manager™
- Contains asset and data security via multiple passwords and locks

ThinkVantage Rescue and Recovery 3.0 is a one-button recovery and restore solution that includes a set of self-recovery tools for users to diagnose, get help, and recover from system crashes quickly, even if the primary operating system will not start up and you are remote from your support team.

- System Rejuvenation keeps data and system personality settings current when you restore.
- Antidote Delivery Manager allows IT staff to deliver fixes and updates to users wherever they are, even if their systems are down from a worm or virus.
- Point and click wizard makes creating Antidote scripts easy.
- Integration with other ThinkVantage Technologies allows migration from backup and chip-encrypted backups, combining great technologies to create an even more robust environment.

Operating system: Microsoft Windows XP Professional with selected applications

Communications: Choice of communications:

- 56K V.90 modem (V.92-designed) and 1 Gigabit Ethernet LAN connection
- Integrated ThinkPad 11a/b/g Wi-Fi wireless technology

LCD TFT display: 356-mm (14.0-in) TFT display with 1280 x 768 resolution

Display is measured diagonally.

Video modes

Intel GMA 900 (UMA Max: 128 MB) with 1280 x 768 TFT display resolution

TFT LCD		
Resolution	Color depth	
640 x 480	256,	64K, 16M
768 x 480	256,	64K, 16M
800 x 600	256,	64K, 16M
960 x 600	256,	64K, 16M
1024 x 768	256,	64K, 16M
1280 x 768	256,	64K, 16M
1280 x 800	256(12),	64K(12), 16M(12)
1280 x 1024	256(12),	64K(12), 16M(12)
1600 x 1200	256(12),	64K(12), 16M(12)
1680 x 1050	256(12),	64K(12), 16M(12)

Resolution	Color	External monitor	
		Refresh rate (Hz)	
640 x 480	256	60, 75, 85, 100, 120	
640 x 480	64K	60, 75, 85, 100, 120	
640 x 480	16M	60, 75, 85, 100, 120	
768 x 480	256	60	
768 x 480	64K	60	
768 x 480	16M	60	
800 x 600	256	60, 75, 85, 100, 120	
800 x 600	64K	60, 75, 85, 90, 100, 120	
800 x 600	16M	60, 70, 72, 75, 85, 90, 100, 120	
960 x 800	256	60	
960 x 800	64K	60	
960 x 800	16M	60	
1024 x 768	256	60, 75, 85, 100, 120	
1024 x 768	64K	60, 75, 85, 100, 120	
1024 x 768	16M	60, 75, 85, 100, 120	
1280 x 768	256	60	
1280 x 768	64K	60	
1280 x 768	16M	60	
1280 x 800	256	60	
1280 x 800	64K	60	
1280 x 800	16M	60	
1280 x 1024	256	60, 75, 85, 100, 120	
1280 x 1024	64K	60, 75, 85, 100, 120	
1280 x 1024	16M	60, 75, 85, 100, 120	
1600 x 1200	256	60, 75, 85, 100	
1600 x 1200	64K	60, 75, 85, 100	
1600 x 1200	16M	60, 75, 85, 100	
1680 x 1050	256	60	
1680 x 1050	64K	60	
1680 x 1050	16M	60	
2048 x 1536	256	60, 70, 75	
2048 x 1536	64K	60, 70, 75	
2048 x 1536	16M	60, 70, 75	

Keyboard with TrackPoint and enhanced features: The keyboard has the familiar layout of a ThinkPad notebook with function keys that allow you to quickly access system functions such as power management control.

- UltraNav combines the advantages of the TrackPoint device, center-scrolling button, and a touch pad.
- ThinkLight® makes it easy to view your keyboard in low-light conditions.
- ThinkVantage button provides one-button access to critical information.
- The TrackPoint with enhanced features includes the Press-to-Select and Release-to-Select function.

Just tap the TrackPoint to speed icon launches and help reduce keystrokes. The programmable center button enables fast scrolling of Web sites and documents or fast panning across wide spreadsheets. Switch to the innovative magnifying glass feature to enlarge screen views in any application.

Memory: The system has 512 MB of standard memory and can be configured for up to 2 GB of addressable memory. Memory options up to 1 GB DDR SO DIMMs each can be added in the two slots for memory expansion.

To achieve the maximum 2 GB, you need to replace the standard card with a 1 GB card and add another 1 GB card in the extra slot.

The use of 533 MHz SO DIMM memory is recommended for this system.

PC card: One Type II slot and one Secure Digital slot.

Storage: 80 GB HDD at 5400 rpm

An optional second HDD in the Ultrabay Slim expands storage. The second HDD option, requiring an adapter, can be used with all models.

Drives: 24x-24x-24x-8x max CD-RW/DVD

Audio: Full-duplex audio on the system board and the integrated microphone allow voice annotation and audio. The system is equipped with audio in/out jacks for stereo speakers, headphone, or external microphone. The system supports Microsoft DirectSound applications.

Infrared (IR): The system has one fast IR transceiver (up to 4 Mbps) for wireless file and data transfer and printing. The ThinkPad Z60t notebook is designed for compliance with the Infrared Data Association (IrDA) IR data link specification V1.1.

Other features: The ThinkPad Z60t systems include these ports:

- External display
- Built-in RJ-11 and RJ-45 connectors for telephony and LAN connections
- IR
- Microphone
- Headphone
- Three USB 2.0 ports
- IEEE 1394
- S-Video out (TV out)

ExpressCard/54 slot, PS/2® port, and serial port are not included, but they can be obtained through the optional ThinkPad Essential Port Replicator, ThinkPad Advanced Dock, or ThinkPad Advanced Mini-Dock.

The USB ports, which connect external drives and other devices, are supported with Microsoft Windows XP Professional and Windows XP Home.

The 240-pin connector supports these optional docking solutions:

- ThinkPad Essential Port Replicator for simple port replication and cable management
- ThinkPad Advanced Mini-Dock for port replication, additional USB capability, and security
- ThinkPad Advanced Dock for a more advanced docking solution

AC adapter: The ac adapter is an ac-to-dc converter that supplies the necessary power to the computer. The ac adapter also charges the battery pack when it is installed in the computer.

Li-Ion battery pack

- A seven-cell Li-Ion battery pack is shipped with the system.
- An optional Li-Ion battery pack, the Ultrabay Slim Li-Polymer battery, fits into the Ultrabay Slim so that two batteries can be installed to increase battery operating time.

- The battery pack is an internal power source to the computer when the ac adapter is not available. The battery pack is rechargeable and is charged using the ac adapter with the system.
- You can determine how much battery power remains by using the Fuel-Gauge ThinkPad utility program. This displays the percent charge remaining, whether one or two batteries are in the system.

Approximate operation and charging hours:

- Power off/suspend charging¹³:
 - Four-cell battery: 3.5 hr
 - Seven-cell battery: 4.7 hr
- Charging during operation¹³:
 - Four-cell battery: 3.5 to 6.0 hr
 - Seven-cell battery: 4.7 hr to 8.0 hr
- Battery operation (Intel Pentium models):
 - Four-cell battery: Up to 3.0 hr
 - Seven-cell battery: Up to 5.0 hr

Features available for this family of ThinkPad notebooks

Certain product family features are sometimes limited to selected models that may not be available in all countries¹⁴

- Intel Pentium M processors: 740, 750, 760, 770, and 780
- Intel Celeron® M processors: 360, 370, and 380
- HDD: 40, 60, 80, and 100 GB at 5400 rpm, and 100 GB at 7200 rpm
- System memory: 256 MB, 512 MB, 768 MB, and 1 GB
- Optical drives: CD-ROM, CD-RW/DVD-ROM Combo, DVD-ROM, and DVD recordable 8x max, Dual Layer, Ultrabay Slim
- Bluetooth wireless technology
- Intel 915GM chipset and Integrated Intel Graphics Media Accelerator 900
- ThinkPad 11a/b/g Wi-Fi wireless
- Fingerprint reader
- 358.4 (14.0-in) widescreen TFT display with 1280 x 768 resolution
- Four- and seven-cell Li-Ion battery
- Titanium and black top cover
- Microsoft Windows XP Professional
- Microsoft Windows XP Home
- VitalSource Library from VitalSource Technologies, Inc.

Software

Non-Lenovo™ software: The non-Lenovo software programs listed in this section may be licensed to you under the non-Lenovo manufacturer's, supplier's, or publisher's terms and conditions. The non-Lenovo manufacturers, suppliers, or publishers are responsible for providing any service or support associated with these programs. The descriptions of these programs were obtained from information made available by these companies to the general public. Lenovo does not warrant these products. Some software may differ from its separately available version (if available), and may not include user manuals or all program function.

Software that may be included or preloaded on the system

Software preload (Windows XP Professional)

- Microsoft Windows XP Professional
- InterVideo WinDVD Player — only for systems with DVD drive or DVD/CD-RW
- InterVideo WinDVD Creator — only for systems with DVD-RW/CD-RW drive
- ThinkVantage Productivity Center
- ThinkVantage System Update
- PC-Doctor diagnostics
- Think Multimedia — only for systems with DVD-RW/CD-RW drive
- ThinkVantage Access Connections
- Adobe Acrobat Reader
- ThinkVantage Rescue and Recovery 3.0
- Symantec Client Security software (OEM Edition) with 90 days of virus definition updates
- ThinkVantage fingerprint software on selected systems

Warranty information

For a copy of applicable product warranties, contact your authorized Lenovo reseller or Lenovo representative. Lenovo makes no representation or warranty regarding third-party products or services.

Telephone support may be subject to additional charges, even during the limited warranty period. For Lenovo machines with on-site labor, Lenovo will attempt to diagnose and resolve the problem remotely before sending a technician. For Lenovo machines with courier or depot service, Lenovo will attempt to diagnose and resolve the problem remotely before sending a courier.

All offers are subject to availability. Lenovo reserves the right to alter product offerings and specifications at any time without notice. Lenovo is not responsible for photographic or typographic errors.

Reference information

- ¹ Power management reduces processor speed when in battery mode.
- ² GB equals one billion bytes when referring to HDD. Accessible capacity is less. Up to 4 GB is used in the service partition.
- ³ Maximum CD and DVD rates; rates are variable and are often less than the maximum.
- ⁴ For combination drives, maximum speeds are given in the following order: CD-W, CD-RW, CD-R, and DVD-R.
- ⁵ The V.90 modem can receive data at up to 56 Kbps from a compatible service provider and transmit data at up to 31.2 Kbps. Public networks currently limit maximum download speeds to about 53 Kbps. Actual speeds depend on many factors and are often less than the maximum possible.
- ⁶ Public network download speeds are limited to 53 Kbps. Upload speeds are limited to 48 Kbps for V.92 modems. Actual speeds depend on many factors and are often less than the maximum possible. V.92 functions and speeds require a compatible phone line and server equipment, and download of the V.92 support device driver when available. Check with your telephone and Internet service providers for availability.
- ⁷ 11a, 11b, and 11g wireless are based on IEEE 802.11a, 802.11b, and 802.11g. An adapter with 11 a/b or 11a/b/g can

communicate on any of these formats; the actual connection is based on the access point to which it connects.

- 8 These model numbers achieved the Ziff Davis Media Inc.'s Business Winstone 2002 BatteryMark V1.0 battery rundown time of at least the time shown. This test was performed without independent verification by the VeriTest testing division of Lionbridge Technologies, Inc. ("VeriTest") nor Ziff Davis Media Inc.; neither Ziff Davis Media Inc. nor VeriTest makes any representations or warranties as to these test results. For a description of the environment under which the test was performed, visit

<http://www.ibm.com/pc/ww/thinkpad/batterylife>

Battery life (and recharge times) varies based on many factors including screen brightness, applications, features, power management, battery conditioning, and other customer preferences.

- 9 Thickness may vary at certain points on the system.
10 Actual weight may vary depending on vendor components, manufacturing process, or options. Weight includes battery and optional travel bezel instead of the standard optical drive in the Ultrabay Plus™.
11 As an ENERGY STAR partner, Lenovo has determined that all models of this product meet the ENERGY STAR guidelines for energy efficiency.
12 Supported in panning mode.
13 Recharge time will also vary.
14 Refer to the models and features available in your country.

Trademarks

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Other company, product, and service names may be trademarks or service marks of others.

United States Announcement Supplemental Information

February 28, 2006

Optional features

For the latest information on options available for the ThinkPad® Z60t models and other ThinkPad notebooks, visit

<http://www.pc.ibm.com/us/accessories/thinkpad/index.html>

Services

IBM Integrated Technology Services

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These services help you learn about, plan, install, manage, or optimize your IT infrastructure to be an On Demand Business. They can help you integrate your high-speed networks, storage systems, application servers, wireless protocols, and an array of platforms, middleware, and communications software for Lenovo™ and many non-Lenovo offerings.

For details on available services, contact your IBM representative or visit

<http://www.ibm.com/services/>

For details on available IBM Business Continuity and Recovery Services, contact your IBM representative or visit

<http://www.ibm.com/services/continuity>

For details on education offerings related to specific products, visit

<http://www.ibm.com/services/learning/index.html>

Select your country, and then select the product as the category.

Technical information

Physical specifications

Note: Actual specifications and weights may vary based on features, vendor components, or manufacturing processes. All weights and dimensions are approximate.

- Width: 334 mm (13.1 in)
- Depth: 228 mm (9.0 in)
- Height: 26.6 to 30.9 mm (1.05 to 1.22 in)
- Weight:
 - With black top cover, four-cell battery, and travel bezel: 1.89 kg (4.17 lb)

- With black top cover, seven-cell battery, and travel bezel: 2.05 kg (4.53 lb)
- With titanium top cover, four-cell battery, and travel bezel: 2.0 kg (4.42 lb)
- With titanium top cover, seven-cell battery, and travel bezel: 2.16 kg (4.77 lb)

Accessories

- Four-cell Li-Ion battery pack: 220 g (0.49 lb)
- Seven-cell Li-Ion battery pack: 380 g (0.84 lb)
- AC adapter (two-pin or three-pin): 360 g (0.795 lb)
- Power cord for ac adapter: 90 g (0.19 lb)
- DVD/CD-RW drive: 195 g (0.43 lb)
- Multi-Burner DVD Recordable drive: 195 g (0.43 lb)

Electrical specifications

- Universal ac adapter (90 W):
 - Input: 100/240 V ac, 1.7/0.6 A, 50/60 Hz
 - Output: 20 V dc, 4.5 A
- Li-Ion battery packs:
 - Four-cell: 10.8 V, 37.44 Wh
 - Seven-cell: 10.8 V, 65.52 Wh

Heat dissipation: 246 Btu/hr maximum

Heat emissions: 72 watts maximum

Air temperature for shipping and storage: -20° to 60°C (-4° to 140°F)

Acoustic noise level: Category 3D (office environment)

- Low cooling fan speed:
 - Sound power level: 3.7 bels (idling), 4.0 bels (HDD seeking)
 - Sound pressure level at the operator position: 31 dB (idling), 34 dB (HDD seeking)
- Middle cooling fan speed:
 - Sound power level: 3.9 bels (idling), 4.0 bels (HDD seeking)
 - Sound pressure level at the operator position: 33 dB (idling), 34 dB (HDD seeking)
- High cooling fan speed:
 - Sound power level: 4.0 bels (idling), 4.1 bels (HDD seeking)
 - Sound pressure level at the operator position: 36 dB (idling), 37 dB (HDD seeking)

This announcement is provided for your information only.

Note: All measurements are made in accordance with ISO 7779 and reported in conformance with ISO 9296.

Operating environment: ThinkPad computers are designed, built, and tested for high quality and reliability. When used properly in standard business environments, a ThinkPad system should be a reliable computing asset for many years. Harsh environments and abuse can damage ThinkPad notebooks. They are not intended to withstand extreme temperatures, dust, shock, or severe physical environments. ThinkPad systems should not be used in unsuitable environments. For example, a ThinkPad system should not be used in non-stationary environments, such as in-vehicle installations, without additional casing or shock dissipation. Lenovo warrants that the ThinkPad notebook will conform to its Official Published Specifications when used in a suitable physical operating environment.

For additional information about supported environments, refer to the **Physical specifications** section.

Air temperature

- 0 to 8,000 ft:
 - Operating:
 - 5° to 35°C (41° to 95°F) (without diskette)
 - 10° to 35°C (50° to 95°F) (with diskette inside unit)
 - System off: 5° to 43°C (41° to 110°F)
 - Storage/shipment: -20° to 60°C (-4° to 140°F)
 - Wet bulb (maximum): 29.4°C (85°F)
- 8,000 to 10,000 ft:
 - Operating:
 - 5° to 31.3°C (41° to 88°F) (without diskette)
 - 10° to 31.3°C (50° to 88°F) (with diskette inside unit)
 - System off: 5° to 43°C (41° to 110°F)
 - Storage/shipment: -20° to 60°C (-4° to 140°F)
 - Wet bulb (maximum): 25.7°C (78°F)

Note: The maximum temperature when the system is on is linearly decreased from 8,000 to 10,000 ft.

Relative humidity

- Operating:
 - 8% to 95% (without diskette)
 - 8% to 80% (with diskette inside unit)
- Storage/shipment: 5% to 95%

Altitude: 10,000 ft maximum (3,048 m)

Agency approvals

System unit

- FCC Class-B certified to comply with FCC Rules, Part 15
- VCCI Class B
- CISPR22 Class B
- UL 60950
- CSA C22.2 No. 950

- NOM
- SASO
- IEC 60950
- ACA
- MPR-II (Sweden)
- CE Mark
- CCC (for China)
- BSMI
- CER

Software requirements

- Windows™ 2000 Professional (no service pack, SP1, SP2, SP3, SP4) with USB 2.0 support
- Windows XP Professional (no service pack, SP1, SP1a, SP2) with USB 2.0 support
- Windows XP Home (no service pack, SP1, SP1a, SP2) with USB 2.0 support

For information about support for these operating systems, visit

<http://www.lenovo.com/support>

Note: Previous versions of these operating systems are not supported.

For a list of completed Linux™ certifications, visit

<http://www.lenovo.com/pc/support/site.wss/MIGR-48NT8D.html>

Operating systems other than those preinstalled on the system may not perform all functions at an optimal level. To view considerations or Service Hints and Tips by operating system, visit

<http://www.lenovo.com/support>

- In the middle of the page, in the Quick path to a product field, enter your system's four-digit machine type and model number, such as 2513-123.
- On the left side of the page, click Hints and Tips.
- In middle of the page, select a category such as Windows 2000 to see the list of considerations or hints and tips for your machine type.

Compatibility and supported products

Contact your ThinkPad representative for a list of supported features and options.

PC card: The ThinkPad Z60t notebook conforms to the PC Card Standard 95. The new PC Card Standard encompasses both the former 16-bit Release 2.1 card standard and the new 32-bit CardBus card. Other PC card adapters that comply with the PC Card Standard may also function, but have not been tested by Lenovo.

Vendor software compatibility

Lenovo tests a large number of commonly used and available applications for compatibility with its ThinkPad systems using supporting operating systems and configurations. In general, you can expect that most vendor applications designed to run on supported operating systems and Intel-compatible system

architectures should be compatible with a ThinkPad system. Some configurations, however, may not be compatible.

Lenovo does not warrant or support vendor software products, nor guarantee compatibility of those products with Lenovo systems. Refer to the applicable warranty and license terms provided by the respective vendors.

ThinkPad Z60t systems contain BIOS in their flash ROM and a GUI to set up the system and power-management features for Windows users. BIOS provides the hardware instructions and interfaces designed to support the standard features of the ThinkPad Z60t computer and to maintain compatibility with many software programs currently operating under Windows 2000.

Limitations: For a list of tips about running various versions of operating systems, visit

<http://www.lenovo.com/support>

General

- ThinkPad 11a/b/g Wireless Mini-PCI Express Adapter (ThinkPad 11a/b/g) and ThinkPad 11b/g Wireless Mini-PCI Express Adapter (ThinkPad 11b/g) support ad hoc wireless connection mode for 2.4 GHz 802.11b connections. ThinkPad 11a/b/g and ThinkPad 11b/g adapters support ad hoc wireless connections for 2.4 GHz 802.11g connections at 802.11b data rates (up to 11 Mbps) as defined in the IEEE 802.11g standard. Ad hoc wireless connection mode is not supported for 5 GHz connections (802.11a).
- ASEAN models with 802.11a/b/g cards enable b/g functions only.
- The Ultrabay™ does not support the combination of PATA HDD and ThinkPad 2nd HDD Adapter Option (62P4554) though the second HDD adapter can be attached to Ultrabay physically.
- Do not use the RJ-11, RJ-45, or VGA port when the computer is docked on the ThinkPad Advanced Dock, ThinkPad Advanced Mini-Dock, or ThinkPad Essential Port Replicator.
- Selected systems are wireless upgradable with wireless LAN Mini-PCI Express options sold by Lenovo. Systems are not wireless upgradable in all countries.
- Systems with the wireless LAN product permit legal operation worldwide in regions in which it is approved. This product has been tested and certified to be interoperable by the Wireless Ethernet Compatibility Alliance and is authorized to carry the Wi-Fi brand.
- Using Wi-Fi wireless and optional Bluetooth products together may impact the performance of both.
- ThinkVantage™ Active Protection System™ is automatically disabled while the computer is:
 - Loading the operating system
 - In standby or hibernation mode
 - Resuming from normal operation after being in standby or hibernation
 - Being shut down

Planning information

Cable orders: All required cables are included in the shipment group.

Installability: ThinkPad notebook systems require approximately 20 minutes for installation. Installation includes unpacking, setting up, and powering on the system. Additional time is required to install optional memory and other features.

Packaging

- System unit with the appropriate processor, HDD, and display
- Proper memory installed
- Proper optical drive installed
- Modem, Ethernet and IEEE 1394
- Embedded Security Subsystem 2.0
- Wi-Fi wireless card on selected models
- Appropriate preloaded software

Shipment group

- System unit with U.S. English keyboard
- AC adapter
- Rechargeable battery pack (Li-Ion)
- Power cord
- TrackPoint® caps
- ThinkPad Z Series Service and Troubleshooting Guide
- ThinkPad Z Series Setup Guide
- License agreement and supporting documentation
- Envelope Group BM (Miscellaneous Envelope)

Supplies: Not applicable

Security, auditability, and control

Passwords: These password protection mechanisms are available:

- Power-on passwords to help protect the system from unauthorized use
- Supervisor password for use by a system administrator
- HDD password to help protect data on the removable HDD

In addition, an optional locking device in the Lenovo security slot provides physical security.

The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communications facilities.

Terms and conditions

IBM Global Financing: Yes

To obtain copies of the Lenovo Statement of Limited Warranty, contact your reseller or Lenovo.

In the United States, call 800-426-7378 or write to:

Warranty Information
P.O. Box 12195
Research Triangle Park, NC 27709
Attn: Dept ZPYA/B676

Warranty period

- System hardware — Three years on parts and labor
- System battery — One year

Optional Lenovo features initially installed in a Lenovo system carry the same warranty period as the system. If installed after the initial system installation, they carry the balance of the system warranty or the optional feature warranty, whichever is greater.

Warranty service: If required, your service provider provides repair or exchange service depending on the type of warranty service specified for the machine. A service technician will attempt to resolve your problem over the telephone. You must follow the problem determination and resolution procedures. Scheduling of service will depend upon the time of your call and is subject to parts availability. Service levels are response time objectives and are not guaranteed. The specified level of warranty service may not be available in all worldwide locations. Additional charges may apply outside your service provider's normal service area. Contact your local service provider representative or your reseller for country- and location-specific information.

Customer replaceable unit (CRU) service: Lenovo will ship CRUs to you for you to install. Tier 1 CRUs are easy to install, whereas Tier 2 CRUs require some technical skill and tools. CRU information and replacement instructions are shipped with your machine and are available from Lenovo at any time on your request. You may request that a service provider install CRUs, at no additional charge, under the type of warranty service designated for your machine. Lenovo specifies in the materials shipped with a replacement CRU whether a defective CRU must be returned. When return is required, return instructions and a container are shipped with the replacement CRU. You may be charged for the replacement CRU if Lenovo does not receive the defective CRU within 30 days of your receipt of the replacement.

Courier or depot service: You will disconnect the failing machine for collection arranged by your service provider. A shipping container will be provided to you for you to return your machine to a designated service center. A courier will pick up your machine and deliver it to the designated service center. Following its repair or exchange, the service center will arrange the return delivery of the machine to your location. You are responsible for its installation and verification.

Customer carry-in or mail-in service: You will deliver or mail as your service provider specifies (prepaid unless specified otherwise) the failing machine suitably packaged to a designated location. After the machine has been repaired or exchanged, it will be made available for your collection or, for mail-in service, the machine will be returned to you at Lenovo's expense, unless your Service Provider specifies otherwise. You are responsible for the subsequent installation and verification of the machine.

This type of service is called EasyServ in the U.S. and Canada.

Call 800-426-7378 to assist with problem isolation for hardware to determine if warranty service is required. Telephone support may be subject to additional charges, even during the limited warranty period. If a hardware problem is identified, the Customer Support Center will either initiate the shipment of a CRU or arrange for a courier to pick up the system for overnight delivery

(where available) to the repair location. Most repairs should be made within 48 hours after the system is received at the repair location (actual repair time may vary). Keep the original shipping carton for shipping to the repair location. If the original shipping carton is not available, the courier will deliver a shipping carton and return to pick up the system for delivery to the repair location.

International Warranty Service (IWS): IWS is available during the warranty period to customers who travel or relocate to countries where their computer is sold and serviced by a service provider authorized to perform warranty service. Eligible Lenovo computers are identified by their four-digit machine type.

You can obtain IWS through the method of service, such as CRU, depot, carry-in, or on-site, provided in the servicing country. Service methods and procedures vary by country, and some service or parts may not be available in all countries. Service centers in certain countries may not be able to service all models of a particular machine type. In addition, some countries may have fees and restrictions that apply at the time of service.

Note: Due to the earth's magnetic field, CRT monitors are manufactured to work in northern, southern, and equatorial regions of the earth and may not produce a satisfactory image when moved between them. Any required adjustment (if possible) is not covered under IWS and may be subject to a chargeable action. The magnetic field does not affect flat-panel LCD monitors and ThinkPad LCD displays.

Licensing: Programs included with this product are licensed under the terms and conditions of the License Agreements that are shipped with the system.

ThinkPlus™ services

Warranty and maintenance options: The announced products may be eligible for ThinkPlus Maintenance Services, convenient prepackaged offerings for warranty service upgrades and maintenance services.

Installation services: The announced products may be eligible for ThinkPlus Installation Services, convenient prepackaged offerings for installation services.

Refer to the **Prices** section for information on the availability of ThinkPlus Services.

Field-installable features: Yes

Model conversions: No

Machine installation: Customer setup. Customers are responsible for installation according to the instructions Lenovo provides with the machine.

Graduated Program License Charges apply: No. This product does not contain licensed internal code or licensed machine code.

Educational allowance: None

Prices

Mobile products — ThinkPad Z60t

Description	Order number	Machine type/model	List price ⁽¹⁵⁾
U.S. English Machines			
80.0 GB / 5400rpm, Intel Pentium(R) M Processor 760, 512 MB, 14.0-in widescreen TFT (1280x768), CD-RW/DVD-ROM Combo, Intel 915GM, Intel Graphics Media Accelerator 900 chipset, ThinkPad 11a/b/g Wi-Fi wireless, 7 Cell battery, fingerprint reader, Titanium top cover, Windows XP Professional	2513MJU	2513-MJU	\$2,079

¹⁵ List price; does not include tax or shipping and is subject to change without notice. Reseller prices may vary.

ThinkPlus services for warranty and maintenance

Description	Part number
2-year IOR 9 x 5 NBD	41C9175
3-year IOR 9 x 5 NBD	41C9176
4-year IOR 9 x 5 NBD	41C9177
5-year IOR 9 x 5 NBD	41C9179
4-year P&L P/U Depot	41C9178
5-year P&L P/U Depot	41C9180

ThinkPlus MA for post warranty/warranty service upgrade service

Description	Part number
1-year IOR 9 x 5 NBD	41C9279
1-year P&L P/U Depot	41C9278
2-year IOR 9 x 5 NBD	41C9281
2-year P&L P/U Depot	41C9280

For ThinkPlus prices, visit

<http://www.thinkpad.com/thinkplus/warranty>

IBM Global Services is the preferred, authorized warranty service, warranty service upgrade, and post-warranty service provider for Lenovo products (excluding mainland China).

For ServiceElect (ESA) Maintenance Service Charges, contact IBM Global Services at 888-426-4343.

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<http://www.ibm.com/financing>

IBM Global Financing offerings are provided through IBM Credit LLC in the United States and other IBM subsidiaries and divisions worldwide to qualified commercial and government customers. Rates are based on a customer's credit rating, financing terms, offering type, equipment type, and options, and may vary by country. Other restrictions may apply. Rates and offerings are subject to change, extension, or withdrawal without notice.

Financing solutions from IBM Global Financing can help you stretch your budget and affordably acquire the new product. But beyond the initial acquisition, our end-to-end approach to IT management can also help keep your technologies current, reduce costs, minimize risk, and preserve your ability to make flexible equipment decisions throughout the entire technology life cycle.

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Windows is a trademark of Microsoft Corporation.

Linux is a trademark of Linus Torvalds in the United States, other countries or both.

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ThinkPad and TrackPoint are registered trademarks of Lenovo in the United States, other countries, or both.

Other company, product, and service names may be trademarks or service marks of others.