

The ThinkPad W700 series -- The ultimate mobile workstation features Microsoft Windows Vista

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At a glance



The ThinkPad® W700 series mobile workstation features:

- Intel® Core 2 Duo, Core 2 Quad, and Core 2 Extreme processors
- NVIDIA Quadro Express graphics technology
- Integrated color calibration
- Onboard palm rest digitizer and pen
- Integrated second display screen
- RAID HDD high-speed storage
- Large, high-resolution displays
- Wireless LAN (WLAN)
- ThinkVantage® technologies
- Trusted ThinkPad layered security

Overview

The ThinkPad W700 series mobile workstation is thoughtfully designed to give users uncompromised performance, stability, and the ultimate visual experience

The ThinkPad W700 is the first mobile workstation to deliver:

- Intel Core 2 Extreme processors
- High-capacity RAID HDDs
- Integrated color calibration
- Onboard digitizer and pen

What's new

- Intel Core 2 Quad Core Q9100 processors
- 10.6-in diagonal second display panel
- Intel Turbo memory 4 GB support
- 4 GB memory DIMM

System features

- RAID DASD high-speed storage
- Integrated color calibration
- Integrated WACOM palm rest digitizer and pen
- Displays
 - 17-in WUXGA with CCFL backlight and 1920 x 1200 resolution
 - 10.6-in WXGA with white LED backlight second display and 768 x 1280 resolution
- High-performance mobile graphics:
 - NVIDIA Quadro FX 2700M, 512 MB dedicated video memory
 - NVIDIA Quadro FX 3700M, 1 GB dedicated video memory
- Intel Centrino® 2 with vPro and Core 2 Extreme technologies
- Intel PM45 Express chip set
- PC3-8500 double data rate 3 (DDR3) SDRAM 1067 MHz SODIMM high-speed memory
- Intel Active Management Technology 4.0
- WLAN: Intel WiFi Link 5300 AGN (3 x 3)¹
- 64 GB solid state drive (SSD) for fast, reliable, lightweight, energy-efficient storage
- DisplayPort
- Dual Link DVI
- Integrated camera
- Intel Turbo memory
- ThinkPad layered security: Trusted Platform Module (TPM) chip, ThinkVantage Client Security, hardware-based HDD encryption, and fingerprint reader

Certain product features are limited to selected models that may not be available in all countries. Some combinations of features are not supported. Refer to the Prices or Product number section of this announcement for the models and features available in your country.

Planned availability date

December 2008

Availability date for models containing 4GB memory DIMM and RAID configurations with Intel Turbo Memory 4GB support: January 2009

The ThinkPad W700 series mobile workstation features uncompromised performance and innovative technology. Lenovo® combines thoughtful engineering with bold design, delivering the most powerful ThinkPad ever.

System features

Minimum weight

3.83 kg (8.4 lb)² with one HDD

Minimum weight for dual screen model

4.96 kg (10.9 lb) with one HDD

Processor technology

- Intel Core 2 Quad Core Extreme QX9300 2.53 GHz processor with 12 MB of L2 cache
- Intel Core 2 Quad Core Q9100 2.26 GHz processor with 12 MB of L2 cache
- Intel Core 2 Duo T9400 2.53 GHz or T9600 2.80 GHz processor with 6 MB of L2 cache
- Intel Core 2 Dual Core Extreme X9100 3.06 GHz processor with 6 MB of L2 cache, all with 1066 MHz front-side bus (FSB) speed

RAID DASD high-speed storage

- RAID systems must be configured with two identical HDDs
- RAID-0 -- Half the data is written onto two identical SATA hard drives, but the two physical drives appear as one large volume for additional speed
- RAID-1 -- Two identical hard drives are simultaneously written with duplicate data to form a single logical volume with the capacity of a single drive for backup support

Systems are shipped with RAID or non-RAID drives, depending on the system configuration. Users can switch to and from RAID only by complete format or reinstall.

RAID HDD

- 160 GB³ (7200 rpm)
- 250 GB or 320 GB (5400 rpm)
- 200 GB (7200 rpm) with full-disk encryption (FDE)

Non-RAID HDD

One or two internal drives are supported.

- 160 GB (7200 rpm)
- 250 GB or 320 GB (5400 rpm)
- 200 GB (7200 rpm) FDE
- 64 GB solid state drive (SSD):
 - Fast, reliable, lightweight, and energy-efficient
 - Faster data rates and boot-up times than a 7200 rpm mobile hard drive
 - Very low failure rates
 - Ability to withstand harsher environmental and vibration conditions than a mobile HDD
 - Less battery power consumption than a mobile HDD
 - Significantly lighter than a mobile HDD

Integrated color calibration

- Produces high quality calibrated displays
- Enables greater image color accuracy, producing a more photo perfect image
- Uses X-Rite Pantone color sensor and software, delivering a consistent and true display

Integrated WACOM palm rest digitizer and pen

- 128 cm x 80 cm palm rest digitizer
- Enables users to digitize and manipulate images
- Configured to map to entire screen or user-defined area
- Ideal for digital content creation, CAD/CAM applications, and digital photography

Integrated dual displays

- WUXGA 17-in wide diagonal screen
- Second display -- WXGA 10.6-in wide diagonal screen
 - Improves productivity
 - Provides 39% additional display area

Memory

Lenovo workstations have a 64-bit architecture. Memory can be expanded to 2.5 or 4 GB⁴ of addressable memory, depending on whether the operating system is 32- or 64-bit. Workstations with a Windows® Vista 32-bit or previous Windows 32-bit operating system can support up to 2.5 GB of addressable memory. Workstations with a Windows Vista 64-bit operating system can support up to 4 GB of addressable memory.

Recommended for memory expansion are 1 GB, 2 GB, and 4 GB PC3-8500 DDR3 SDRAM 1067 MHz SODIMM.

Opticals

- 8x maximum DVD Recordable drive⁵
- ThinkPad Blu-ray Recordable Ultrabaytm Slim drive

DisplayPort

The next generation display interface technology for HD video via a single digital connector-interface used for a broad range of applications. DisplayPort makes digital display connections easier and more readily available with improved performance.

Dual Link DVI

The first ThinkPad to offer a full dual link DVI-D digital output port in support of the highest resolution displays in the industry

Integrated camera

- 1.3 megapixel image sensor enhances instant messaging, video conferencing, and VoIP
- Supports USB 2.0 standards

Media slot combinations

- ExpressCard slot (54 mm) + ExpressCard slot (34 mm)
- Smart card reader + ExpressCard slot (34 mm)
- Compact flash reader + ExpressCard slot (34 mm)

Intel Turbo memory

2 GB or 4 GB support to boost HDD performance

Intel Active Management Technology 4.0

A hardware-based technology that facilitates remote out-of-band management of PCs by use of a small secondary processor located on the motherboard. It allows Network Administrators to check for virus- and worm-like suspicious traffic received or transmitted by the remote system and enables the booting of a corrupted (or missing) operating system and the rebuilding a corrupted hard drive over the network.

Using Intel AMT, IT managers can remotely discover, repair, and protect wireless workstations. Intel AMT features include enhanced asset management, remote system diagnostics, network protection, and security -- all independent of the operating system's functional state -- resulting in reduced on-site support costs.

Unique data protection

Selected models include integrated fingerprint reader technology, from ThinkVantage Technologies, to help protect unauthorized access to your ThinkPad workstation and data.

- Fingerprint reader is integrated into the palm rest and offers users a convenient solution -- Authenticate at system startup and log on to Windows with a swipe of your finger.
- Combine the integrated fingerprint reader technology with Password Manager and the ThinkVantage Client Security Solution for strong security measures that are easy to follow. 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.

Active Protection System

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

UltraConnect II antenna

To help optimize frequency coverage and performance for improved WLAN connectivity around the world (when used with compatible options)

Access Connections

Utility to easily manage wired and wireless communications (if applicable)

Rescue and Recovery

An enhanced support environment accessible through the Access program using the blue button on the keyboard, enables user self-help and self-recovery. Recover from system crashes quickly. Broad recovery and diagnostic tools are available even when your primary operating system is failing. You can:

- Rescue and recover your files, folders, or backups.
- Configure your system settings and passwords.
- Communicate using the Internet and link to the Lenovo support site (with Internet access required, not included).
- Troubleshoot by using diagnostics.

Keyboard with TrackPoint and enhanced features

- Seven-row keyboard.
- Ten-key number pad for numerical data entry.

- UltraNav® dual-pointing system that combines the advantages of the TrackPoint® device, center-scrolling button, and a touch pad.
- Two ThinkLights for ease of viewing your keyboard in low-light conditions.
- ThinkVantage button for one-button access to critical information.

Other features and ports

ThinkPad W700 series workstations include:

- Bluetooth wireless technology
- Dual integrated speakers
- Integrated digital microphone
- VGA out
- Dual Link Digital Visual Interface (DVI)
- 56K V.90⁶ modem (V.92⁷-designed) (RJ-11)
- Gigabit Ethernet connectivity (RJ-45)
- IEEE 1394a
- Microphone jack
- Headphone jack
- Five USB 2.0 ports
- Media card reader (7-in-1)
- Mini-PCIe slots: Two full (F2) and one half (H1)

Security and manageability

- Lenovo systems include a fully integrated recovery environment that works even when the Windows Vista operating system is not working.
- Lenovo systems manage everything that changes when your location changes, not just your Internet connection.
- Asset and data security protection is maintained through multiple passwords and locks.

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 installed in the computer.

Li-Ion battery pack

- A nine-cell Li-Ion battery pack is shipped with the system.
- 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.

Software

Non-Lenovo software

Non-Lenovo software programs 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. 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.

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 The Intel WiFi Link 5300 (3x3) follow 802.11 a, b, g and draft n specifications. The Wi-Fi Alliance is certifying products based on 802.11n Draft 2.0 standard. The Intel 5300 Series Wireless Card is capable of supporting transfer rates of up to 450 Mbps. The maximum speed depends on the access point device and the number of integrated antenna used for connection.
- 2 Minimum weight may vary depending on vendor components, manufacturing process, or options.
- 3 GB equals one billion bytes when referring to HDD; accessible capacity is less. Up to 4 GB is used in the service partition.
- 4 Maximum capacity; may require the replacement of standard component with largest supported component available.
- 5 Maximum CD and DVD rates; rates are variable and are often less than the maximum.
- 6 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.
- 7 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.

Product number

Mobile products

Australia / New Zealand Machines

Description	Genuine windows Vista Business (64-bit)		
	Order Number	Machine Type	Model
ThinkPad w700ds (17" WUXGA & 10.6" WXGA TFT, Intel PM45 Express Chipset, NVIDIA Quadro FX 3700 (1 GB), Integrated camera, Bluetooth wireless, Integrated fingerprint reader, Integrated color calibration, Digitizer and pen, Intel Core 2 Quad Core Extreme QX9300, 160 GB / 7200 rpm, 160 GB / 7200 rpm, DVD Recordable, two ExpressCard slots, 4 GB, Intel wireless WiFi Link 5300 AGN (3 x 3), Genuine windows Vista Business (64-bit), 9 Cell battery)	2752E7M	2752	E7M
ThinkPad w700 (17" WUXGA TFT, Intel PM45 Express Chipset, NVIDIA Quadro FX 3700 (1 GB),	2752EQM	2752	EQM

Integrated camera, Bluetooth wireless,
Integrated fingerprint reader,
Intel Core 2 Quad Core Q9100,
RAID-0, 160 GB / 7200 rpm, 160 GB / 7200 rpm,
DVD Recordable,
Compact Flash reader, ExpressCard slot, 2 GB,
Intel Wireless WiFi Link 5300 AGN (3 x 3),
Genuine Windows Vista Business (64-bit),
9 Cell battery)

ThinkPad w700 2752ERM 2752 ERM

(17" WUXGA TFT, Intel PM45 Express Chipset,
NVIDIA Quadro FX 3700 (1 GB),
Integrated camera, Bluetooth wireless,
Integrated fingerprint reader,
Integrated color calibration, Digitizer and pen,
Intel Core 2 Quad Core Q9100,
RAID-0, 200 GB / 7200 rpm FDE, 200 GB / 7200 rpm FDE,
DVD Recordable, Compact Flash reader, ExpressCard slot,
2 GB, Intel Wireless WiFi Link 5300 AGN (3 x 3),
Genuine Windows Vista Business (64-bit),
9 Cell battery)

ThinkPad w700 2752ESM 2752 ESM

(17" WUXGA TFT, Intel PM45 Express Chipset,
NVIDIA Quadro FX 3700 (1 GB),
Integrated camera, Bluetooth wireless,
Integrated fingerprint reader,
Integrated color calibration, Digitizer and pen,
Intel Core 2 Quad Core Q9100,
RAID-0, 320 GB / 5400 rpm, 320 GB / 5400 rpm,
DVD Recordable,
Compact Flash reader, ExpressCard slot, 2 GB,
Intel Wireless WiFi Link 5300 AGN (3 x 3),
Genuine Windows Vista Business (64-bit),
9 Cell battery)

India Machines

Description	Genuine windows Vista Business (64-bit)		
	Order Number	Machine Type	Model
ThinkPad w700ds (17" WUXGA & 10.6" WXGA TFT, Intel PM45 Express Chipset, NVIDIA Quadro FX 3700 (1 GB), Integrated camera, Bluetooth wireless, Integrated fingerprint reader, Integrated color calibration, Digitizer and pen, Intel Core 2 Quad Core Extreme QX9300, 160 GB / 7200 rpm, 160 GB / 7200 rpm, DVD Recordable, two ExpressCard slots, 4 GB, Intel Wireless WiFi Link 5300 AGN (3 x 3), Genuine Windows Vista Business (64-bit), 9 Cell battery)	2752E7Q	2752	E7Q
ThinkPad w700 (17" WUXGA TFT, Intel PM45 Express Chipset, NVIDIA Quadro FX 3700 (1 GB), Integrated camera, Bluetooth wireless, Integrated fingerprint reader, Intel Core 2 Quad Core Q9100, RAID-0, 160 GB / 7200 rpm, 160 GB / 7200 rpm, DVD Recordable, Compact Flash reader, ExpressCard slot, 2 GB, Intel Wireless WiFi Link 5300 AGN (3 x 3), Genuine Windows Vista Business (64-bit), 9 Cell battery)	2752EQQ	2752	EQQ
ThinkPad w700 (17" WUXGA TFT, Intel PM45 Express Chipset, NVIDIA Quadro FX 3700 (1 GB), Integrated camera, Bluetooth wireless, Integrated fingerprint reader, Intel Core 2 Quad Core Q9100, RAID-0, 160 GB / 7200 rpm, 160 GB / 7200 rpm, DVD Recordable, Compact Flash reader, ExpressCard slot, 2 GB, Intel Wireless WiFi Link 5300 AGN (3 x 3), Genuine Windows Vista Business (64-bit), 9 Cell battery)	2752ERQ	2752	ERQ

Integrated camera, Bluetooth wireless,
Integrated fingerprint reader,
Integrated color calibration, Digitizer and pen,
Intel Core 2 Quad Core Q9100,
RAID-0, 200 GB / 7200 rpm FDE, 200 GB / 7200 rpm FDE,
DVD Recordable, Compact Flash reader, ExpressCard slot,
2 GB, Intel wireless WiFi Link 5300 AGN (3 x 3),
Genuine Windows Vista Business (64-bit),
9 Cell battery)

ThinkPad w700	2752ESQ	2752	ESQ
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(17" WUXGA TFT, Intel PM45 Express Chipset,
NVIDIA Quadro FX 3700 (1 GB),
Integrated camera, Bluetooth wireless,
Integrated fingerprint reader,
Integrated color calibration, Digitizer and pen,
Intel Core 2 Quad Core Q9100,
RAID-0, 320 GB / 5400 rpm, 320 GB / 5400 rpm,
DVD Recordable,
Compact Flash reader, ExpressCard slot, 2 GB,
Intel wireless WiFi Link 5300 AGN (3 x 3),
Genuine Windows Vista Business (64-bit),
9 Cell battery)

ASEAN English Machines

Description	Order Number	Machine Type	Model
ThinkPad w700ds (17" WUXGA & 10.6" WXGA TFT, Intel PM45 Express Chipset, NVIDIA Quadro FX 3700 (1 GB), Integrated camera, Bluetooth wireless, Integrated fingerprint reader, Integrated color calibration, Digitizer and pen, Intel Core 2 Quad Core Extreme QX9300, 160 GB / 7200 rpm, 160 GB / 7200 rpm, DVD Recordable, two ExpressCard slots, 4 GB, Intel wireless WiFi Link 5300 AGN (3 x 3), Genuine Windows Vista Business (64-bit), 9 Cell battery)	2752E7A	2752	E7A
ThinkPad w700 (17" WUXGA TFT, Intel PM45 Express Chipset, NVIDIA Quadro FX 3700 (1 GB), Integrated camera, Bluetooth wireless, Integrated fingerprint reader, Intel Core 2 Quad Core Q9100, RAID-0, 160 GB / 7200 rpm, 160 GB / 7200 rpm, DVD Recordable, Compact Flash reader, ExpressCard slot, 2 GB, Intel wireless WiFi Link 5300 AGN (3 x 3), Genuine Windows Vista Business (64-bit), 9 Cell battery)	2752EQA	2752	EQA
ThinkPad w700 (17" WUXGA TFT, Intel PM45 Express Chipset, NVIDIA Quadro FX 3700 (1 GB), Integrated camera, Bluetooth wireless, Integrated fingerprint reader, Integrated color calibration, Digitizer and pen, Intel Core 2 Quad Core Q9100, RAID-0, 200 GB / 7200 rpm FDE, 200 GB / 7200 rpm FDE, DVD Recordable, Compact Flash reader, ExpressCard slot, 2 GB, Intel wireless WiFi Link 5300 AGN (3 x 3), Genuine Windows Vista Business (64-bit), 9 Cell battery)	2752ERA	2752	ERA
ThinkPad w700 (17" WUXGA TFT, Intel PM45 Express Chipset, NVIDIA Quadro FX 3700 (1 GB),	2752ESA	2752	ESA

Integrated camera, Bluetooth wireless,
Integrated fingerprint reader,
Integrated color calibration, Digitizer and pen,
Intel Core 2 Quad Core Q9100,
RAID-0, 320 GB / 5400 rpm, 320 GB / 5400 rpm,
DVD Recordable,
Compact Flash reader, ExpressCard slot, 2 GB,
Intel wireless WiFi Link 5300 AGN (3 x 3),
Genuine Windows Vista Business (64-bit),
9 Cell battery)

Thailand Machines

Description	Genuine Windows Vista Business (64-bit)		
	Order Number	Machine Type	Model
ThinkPad w700ds (17" WUXGA & 10.6" WXGA TFT, Intel PM45 Express Chipset, NVIDIA Quadro FX 3700 (1 GB), Integrated camera, Bluetooth wireless, Integrated fingerprint reader, Integrated color calibration, Digitizer and pen, Intel Core 2 Quad Core Extreme QX9300, 160 GB / 7200 rpm, 160 GB / 7200 rpm, DVD Recordable, two ExpressCard slots, 4 GB, Intel wireless WiFi Link 5300 AGN (3 x 3), Genuine Windows Vista Business (64-bit), 9 Cell battery)	2752E7T	2752	E7T
ThinkPad w700 (17" WUXGA TFT, Intel PM45 Express Chipset, NVIDIA Quadro FX 3700 (1 GB), Integrated camera, Bluetooth wireless, Integrated fingerprint reader, Intel Core 2 Quad Core Q9100, RAID-0, 160 GB / 7200 rpm, 160 GB / 7200 rpm, DVD Recordable, Compact Flash reader, ExpressCard slot, 2 GB, Intel wireless WiFi Link 5300 AGN (3 x 3), Genuine Windows Vista Business (64-bit), 9 Cell battery)	2752EQT	2752	EQT
ThinkPad w700 (17" WUXGA TFT, Intel PM45 Express Chipset, NVIDIA Quadro FX 3700 (1 GB), Integrated camera, Bluetooth wireless, Integrated fingerprint reader, Integrated color calibration, Digitizer and pen, Intel Core 2 Quad Core Q9100, RAID-0, 200 GB / 7200 rpm FDE, 200 GB / 7200 rpm FDE, DVD Recordable, Compact Flash reader, ExpressCard slot, 2 GB, Intel wireless WiFi Link 5300 AGN (3 x 3), Genuine Windows Vista Business (64-bit), 9 Cell battery)	2752ERT	2752	ERT
ThinkPad w700 (17" WUXGA TFT, Intel PM45 Express Chipset, NVIDIA Quadro FX 3700 (1 GB), Integrated camera, Bluetooth wireless, Integrated fingerprint reader, Integrated color calibration, Digitizer and pen, Intel Core 2 Quad Core Q9100, RAID-0, 320 GB / 5400 rpm, 320 GB / 5400 rpm, DVD Recordable, Compact Flash reader, ExpressCard slot, 2 GB, Intel wireless WiFi Link 5300 AGN (3 x 3), Genuine Windows Vista Business (64-bit), 9 Cell battery)	2752EST	2752	EST

Hong Kong - Traditional Chinese Machines

Description	Genuine Windows Vista Business (64-bit)		
	Order Number	Machine Type	Model
ThinkPad w700ds (17" WUXGA & 10.6" WXGA TFT, Intel PM45 Express Chipset, NVIDIA Quadro FX 3700 (1 GB), Integrated camera, Bluetooth wireless, Integrated fingerprint reader, Integrated color calibration, Digitizer and pen, Intel Core 2 Quad Core Extreme QX9300, 160 GB / 7200 rpm, 160 GB / 7200 rpm, DVD Recordable, two ExpressCard slots, 4 GB, Intel wireless WiFi Link 5300 AGN (3 x 3), Genuine Windows Vista Business (64-bit), 9 Cell battery)	2752E7B	2752	E7B

Description	Genuine Windows Vista Business		
	Order Number	Machine Type	Model
ThinkPad w700ds (17" WUXGA & 10.6" WXGA TFT, Intel PM45 Express Chipset, NVIDIA Quadro FX 2700 (512 MB), Integrated camera, Bluetooth wireless, Integrated fingerprint reader, Integrated color calibration, Digitizer and pen, Intel Core 2 Duo T9400, 250 GB / 5400 rpm, 250 GB / 5400 rpm, DVD Recordable, Compact Flash reader, ExpressCard slot, 4 GB (2 GB x 2), Intel Turbo Memory 2 GB, Intel wireless WiFi Link 5300 AGN (3 x 3), Genuine Windows Vista Business, 9 Cell battery)	2752F3B	2752	F3B
ThinkPad w700ds (17" WUXGA & 10.6" WXGA TFT, Intel PM45 Express Chipset, NVIDIA Quadro FX 3700 (1 GB), Integrated camera, Bluetooth wireless, Integrated fingerprint reader, Integrated color calibration, Digitizer and pen, Intel Core 2 Duo T9600, 320 GB / 5400 rpm, 320 GB / 5400 rpm, ThinkPad Blu-ray Disc Recordable, Compact Flash reader, ExpressCard slot, 4 GB, Intel Turbo Memory 4 GB, Intel wireless WiFi Link 5300 AGN (3 x 3), Genuine Windows Vista Business, 9 Cell battery)	2752F4B	2752	F4B
ThinkPad w700 (17" WUXGA TFT, Intel PM45 Express Chipset, NVIDIA Quadro FX 3700 (1 GB), Integrated camera, Bluetooth wireless, Integrated fingerprint reader, Integrated color calibration, Digitizer and pen, Intel Core 2 Duo T9400, RAID-0, 320 GB / 5400 rpm, 320 GB / 5400 rpm, ThinkPad Blu-ray Disc Recordable, Compact Flash reader, ExpressCard slot, 4 GB (2 GB x 2), Intel Turbo Memory 2 GB, Intel wireless WiFi Link 5300 AGN (3 x 3), Genuine Windows Vista Business, 9 Cell battery)	2752F5B	2752	F5B
ThinkPad w700 (17" WUXGA TFT, Intel PM45 Express Chipset, NVIDIA Quadro FX 3700 (1 GB), Integrated camera, Bluetooth wireless, Integrated fingerprint reader, Integrated color calibration, Digitizer and pen, Intel Core 2 Duo T9400, RAID-1, 320 GB / 5400 rpm, 320 GB / 5400 rpm, ThinkPad Blu-ray Disc Recordable,	2752FAB	2752	FAB

Compact Flash reader, ExpressCard slot,
4 GB (2 GB x 2), Intel Turbo Memory 2 GB,
Intel wireless WiFi Link 5300 AGN (3 x 3),
Genuine windows Vista Business, 9 Cell battery)

Hong Kong - English Machines

Description	Genuine windows Vista Business (64-bit)		
	Order Number	Machine Type	Model
ThinkPad w700ds (17" WUXGA & 10.6" WXGA TFT, Intel PM45 Express Chipset, NVIDIA Quadro FX 3700 (1 GB), Integrated camera, Bluetooth wireless, Integrated fingerprint reader, Integrated color calibration, Digitizer and pen, Intel Core 2 Quad Core Extreme QX9300, 160 GB / 7200 rpm, 160 GB / 7200 rpm, DVD Recordable, two ExpressCard slots, 4 GB, Intel wireless WiFi Link 5300 AGN (3 x 3), Genuine windows Vista Business (64-bit), 9 Cell battery)	2752E7H	2752	E7H

Description	Genuine windows Vista Business		
	Order Number	Machine Type	Model
ThinkPad w700 (17" WUXGA TFT, Intel PM45 Express Chipset, NVIDIA Quadro FX 3700 (1 GB), Integrated camera, Bluetooth wireless, Integrated fingerprint reader, Integrated color calibration, Digitizer and pen, Intel Core 2 Duo T9400, RAID-0, 320 GB / 5400 rpm, 320 GB / 5400 rpm, ThinkPad Blu-ray Disc Recordable, Compact Flash reader, ExpressCard slot, 4 GB (2 GB x 2), Intel Turbo Memory 2 GB, Intel wireless WiFi Link 5300 AGN (3 x 3), Genuine windows Vista Business, 9 Cell battery)	2752F5H	2752	F5H
ThinkPad w700 (17" WUXGA TFT, Intel PM45 Express Chipset, NVIDIA Quadro FX 3700 (1 GB), Integrated camera, Bluetooth wireless, Integrated fingerprint reader, Integrated color calibration, Digitizer and pen, Intel Core 2 Duo T9400, RAID-1, 320 GB / 5400 rpm, 320 GB / 5400 rpm, ThinkPad Blu-ray Disc Recordable, Compact Flash reader, ExpressCard slot, 4 GB (2 GB x 2), Intel Turbo Memory 2 GB, Intel wireless WiFi Link 5300 AGN (3 x 3), Genuine windows Vista Business, 9 Cell battery)	2752FAH	2752	FAH

China (GCG) Machines

Description	Genuine windows Vista Business (64-bit)		
	Order Number	Machine Type	Model
ThinkPad w700ds (17" WUXGA & 10.6" WXGA TFT, Intel PM45 Express Chipset, NVIDIA Quadro FX 3700 (1 GB), Integrated camera, Bluetooth wireless, Integrated fingerprint reader, Integrated color calibration, Digitizer and pen, Intel Core 2 Quad Core Extreme QX9300, 160 GB / 7200 rpm, 160 GB / 7200 rpm, DVD Recordable, two ExpressCard slots, 4 GB,	2752E7C	2752	E7C

Intel wireless WiFi Link 5300 AGN (3 x 3),
 Genuine Windows Vista Business (64-bit),
 9 Cell battery)

Description	Genuine Windows Vista Business		
	Order Number	Machine Type	Model
ThinkPad w700 (17" WUXGA TFT, Intel PM45 Express Chipset, NVIDIA Quadro FX 2700 (512 MB), Integrated camera, Bluetooth wireless, Integrated fingerprint reader, Integrated color calibration, Digitizer and pen, Intel Core 2 Quad Core Q9100, RAID-0, 160 GB / 7200 rpm, 160 GB / 7200 rpm, DVD Recordable, Two ExpressCard slots, 2 GB, Intel Turbo Memory 4 GB, Intel wireless WiFi Link 5300 AGN (3 x 3), Genuine Windows Vista Business, 9 Cell battery)	2752EVC	2752	EVC
ThinkPad w700ds (17" WUXGA & 10.6" WXGA TFT, Intel PM45 Express Chipset, NVIDIA Quadro FX 3700 (1 GB), Integrated camera, Bluetooth wireless, Integrated fingerprint reader, Integrated color calibration, Digitizer and pen, Intel Core 2 Duo T9600, 320 GB / 5400 rpm, 320 GB / 5400 rpm, ThinkPad Blu-ray Disc Recordable, Compact Flash reader, ExpressCard slot, 4 GB, Intel Turbo Memory 4 GB, Intel wireless WiFi Link 5300 AGN (3 x 3), Genuine Windows Vista Business, 9 Cell battery)	2752F2C	2752	F2C
ThinkPad w700 (17" WUXGA TFT, Intel PM45 Express Chipset, NVIDIA Quadro FX 3700 (1 GB), Integrated camera, Bluetooth wireless, Integrated fingerprint reader, Integrated color calibration, Digitizer and pen, Intel Core 2 Duo T9400, RAID-0, 320 GB / 5400 rpm, 320 GB / 5400 rpm, ThinkPad Blu-ray Disc Recordable, Compact Flash reader, ExpressCard slot, 4 GB (2 GB x 2), Intel Turbo Memory 2 GB, Intel wireless WiFi Link 5300 AGN (3 x 3), Genuine Windows Vista Business, 9 Cell battery)	2752F5C	2752	F5C
ThinkPad w700 (17" WXGA+ TFT, Intel PM45 Express Chipset, NVIDIA Quadro FX 2700 (512 MB), Integrated camera, Bluetooth wireless, Integrated fingerprint reader, Integrated color calibration, Digitizer and pen, Intel Core 2 Dual Core Extreme X9100, RAID-0, 160 GB / 7200 rpm, 160 GB / 7200 rpm, DVD Recordable, Two ExpressCard slots, 2 GB, Intel Turbo Memory 2 GB, Intel wireless WiFi Link 5300 AGN (3 x 3), Genuine Windows Vista Business, 9 Cell battery)	2752F6C	2752	F6C
ThinkPad w700 (17" WXGA+ TFT, Intel PM45 Express Chipset, NVIDIA Quadro FX 3700 (1 GB), Integrated camera, Bluetooth wireless, Integrated fingerprint reader, Integrated color calibration, Digitizer and pen, Intel Core 2 Dual Core Extreme X9100, RAID-0, 160 GB / 7200 rpm, 160 GB / 7200 rpm, DVD Recordable,	2752F7C	2752	F7C

Two ExpressCard slots, 2 GB,
Intel Turbo Memory 2 GB,
Intel wireless WiFi Link 5300 AGN (3 x 3),
Genuine windows Vista Business, 9 Cell battery)

ThinkPad w700 2752F8C 2752 F8C

(17" WUXGA TFT, Intel PM45 Express Chipset,
NVIDIA Quadro FX 3700 (1 GB),
Integrated camera, Bluetooth wireless,
Integrated fingerprint reader,
Integrated color calibration, Digitizer and pen,
Intel Core 2 Duo T9400,
RAID-1, 320 GB / 5400 rpm, 320 GB / 5400 rpm,
ThinkPad Blu-ray Disc Recordable,
Compact Flash reader, ExpressCard slot,
4 GB (2 GB x 2), Intel Turbo Memory 2 GB,
Intel wireless WiFi Link 5300 AGN (3 x 3),
Genuine windows Vista Business, 9 Cell battery)

ThinkPad w700ds 2752FDC 2752 FDC

(17" WUXGA & 10.6" WXGA TFT,
Intel PM45 Express Chipset,
NVIDIA Quadro FX 2700 (512 MB),
Integrated camera, Bluetooth wireless,
Integrated fingerprint reader,
Integrated color calibration, Digitizer and pen,
Intel Core 2 Duo T9400,
250 GB / 5400 rpm, 250 GB / 5400 rpm,
DVD Recordable, Compact Flash reader, ExpressCard slot,
4 GB (2 GB x 2), Intel Turbo Memory 2 GB,
Intel wireless WiFi Link 5300 AGN (3 x 3),
Genuine windows Vista Business, 9 Cell battery)

Genuine windows Vista Ultimate (64-bit)

Description	Order Number	Machine Type	Model
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ThinkPad w700 2752ETC 2752 ETC

(17" WUXGA TFT, Intel PM45 Express Chipset,
NVIDIA Quadro FX 3700 (1 GB),
Integrated camera, Bluetooth wireless,
Integrated fingerprint reader,
Integrated color calibration, Digitizer and pen,
Intel Core 2 Quad Core Q9100,
RAID-0, 160 GB / 7200 rpm, 160 GB / 7200 rpm,
DVD Recordable,
Two ExpressCard slots, 2 GB,
Intel Turbo Memory 2 GB,
Intel wireless WiFi Link 5300 AGN (3 x 3),
Genuine windows Vista Ultimate (64-bit),
9 Cell battery)

ThinkPad w700ds 2752EUC 2752 EUC

(17" WUXGA & 10.6" WXGA TFT,
Intel PM45 Express Chipset,
NVIDIA Quadro FX 3700 (1 GB),
Integrated camera, Bluetooth wireless,
Integrated fingerprint reader,
Integrated color calibration, Digitizer and pen,
Intel Core 2 Quad Core Extreme QX9300,
RAID-0, 320 GB / 5400 rpm, 320 GB / 5400 rpm,
ThinkPad Blu-ray Disc Recordable,
Compact Flash reader, ExpressCard slot, 4 GB,
Intel Turbo Memory 4 GB,
Intel wireless WiFi Link 5300 AGN (3 x 3),
Genuine windows Vista Ultimate (64-bit),
9 Cell battery)

ThinkPad w700ds 2752EWC 2752 EWC

(17" WUXGA & 10.6" WXGA TFT,
Intel PM45 Express Chipset,
NVIDIA Quadro FX 2700 (512 MB),
Integrated camera, Bluetooth wireless,
Integrated fingerprint reader,

Integrated color calibration, Digitizer and pen,
 Intel Core 2 Quad Core Extreme QX9300,
 RAID-0, 320 GB / 5400 rpm, 320 GB / 5400 rpm,
 DVD Recordable,
 Compact Flash reader, ExpressCard slot, 4 GB,
 Intel Turbo Memory 4 GB,
 Intel Wireless WiFi Link 5300 AGN (3 x 3),
 Genuine Windows Vista Ultimate (64-bit),
 9 Cell battery)

Japan - English Machines

Description	Genuine Windows Vista Business (64-bit)		
	Order Number	Machine Type	Model
ThinkPad w700 (17" WUXGA & 10.6" WXGA TFT, Intel PM45 Express Chipset, NVIDIA Quadro FX 3700 (1 GB), Integrated camera, Bluetooth wireless, Integrated fingerprint reader, Integrated color calibration, Digitizer and pen, Intel Core 2 Quad Core Extreme QX9300, 160 GB / 7200 rpm, 160 GB / 7200 rpm, DVD Recordable, two ExpressCard slots, 4 GB, Intel Wireless WiFi Link 5300 AGN (3 x 3), Genuine Windows Vista Business (64-bit), 9 Cell battery)	2752E7E	2752	E7E

Japan Machines

Description	Genuine Windows Vista Business (64-bit)		
	Order Number	Machine Type	Model
ThinkPad w700ds (17" WUXGA & 10.6" WXGA TFT, Intel PM45 Express Chipset, NVIDIA Quadro FX 3700 (1 GB), Integrated camera, Bluetooth wireless, Integrated fingerprint reader, Integrated color calibration, Digitizer and pen, Intel Core 2 Quad Core Extreme QX9300, 160 GB / 7200 rpm, 160 GB / 7200 rpm, DVD Recordable, two ExpressCard slots, 4 GB, Intel Wireless WiFi Link 5300 AGN (3 x 3), Genuine Windows Vista Business (64-bit), 9 Cell battery)	2752E7J	2752	E7J
ThinkPad w700 (17" WUXGA TFT, Intel PM45 Express Chipset, NVIDIA Quadro FX 3700 (1 GB), Bluetooth wireless, Integrated fingerprint reader, Intel Core 2 Quad Core Q9100, RAID-0, 160 GB / 7200 rpm, 160 GB / 7200 rpm, DVD Recordable, Compact Flash reader, ExpressCard slot, 2 GB, Intel Turbo Memory 2 GB, Intel Wireless WiFi Link 5300 AGN (3 x 3), Genuine Windows Vista Business (64-bit), 9 Cell battery)	2754EMJ	2754	EMJ
ThinkPad w700 (17" WUXGA TFT, Intel PM45 Express Chipset, NVIDIA Quadro FX 3700 (1 GB), Bluetooth wireless, Integrated fingerprint reader, Integrated color calibration, Digitizer and pen, Intel Core 2 Quad Core Q9100, RAID-0, 250 GB / 5400 rpm, 250 GB / 5400 rpm, DVD Recordable,	2754ENJ	2754	ENJ

Compact Flash reader, ExpressCard slot, 2 GB,
Intel Turbo Memory 2 GB,
Intel wireless WiFi Link 5300 AGN (3 x 3),
Genuine Windows Vista Business (64-bit),
9 Cell battery)

ThinkPad W700	2754FMJ	2754	FMJ
(17" WUXGA TFT, Intel PM45 Express Chipset, NVIDIA Quadro FX 3700 (1 GB), Bluetooth wireless, Integrated fingerprint reader, Integrated color calibration, Digitizer and pen, Intel Core 2 Quad Core Extreme QX9300, RAID-0, 200 GB / 7200 rpm FDE, 200 GB / 7200 rpm FDE, DVD Recordable, Compact Flash reader, ExpressCard slot, 2 GB, Intel wireless WiFi Link 5300 AGN (3 x 3), Genuine Windows Vista Business (64-bit), 9 Cell battery)			

ThinkPad W700	2754FNJ	2754	FNJ
(17" WUXGA TFT, Intel PM45 Express Chipset, NVIDIA Quadro FX 3700 (1 GB), Bluetooth wireless, Integrated fingerprint reader, Integrated color calibration, Digitizer and pen, Intel Core 2 Quad Core Q9100, RAID-0, 320 GB / 5400 rpm, 320 GB / 5400 rpm, DVD Recordable, Smart card reader, ExpressCard slot, 2 GB, Intel wireless WiFi Link 5300 AGN (3 x 3), Genuine Windows Vista Business (64-bit), 9 Cell battery)			

Korea Machines

Description	Genuine Windows Vista Business (64-bit)		
	Order Number	Machine Type	Model
ThinkPad W700ds (17" WUXGA & 10.6" WXGA TFT, Intel PM45 Express Chipset, NVIDIA Quadro FX 3700 (1 GB), Integrated camera, Bluetooth wireless, Integrated fingerprint reader, Integrated color calibration, Digitizer and pen, Intel Core 2 Quad Core Extreme QX9300, 160 GB / 7200 rpm, 160 GB / 7200 rpm, DVD Recordable, two ExpressCard slots, 4 GB, Intel wireless WiFi Link 5300 AGN (3 x 3), Genuine Windows Vista Business (64-bit), 9 Cell battery)	2752E7K	2752	E7K

ThinkPad W700	2754ENK	2754	ENK
(17" WUXGA TFT, Intel PM45 Express Chipset, NVIDIA Quadro FX 3700 (1 GB), Bluetooth wireless, Integrated fingerprint reader, Integrated color calibration, Digitizer and pen, Intel Core 2 Quad Core Q9100, RAID-0, 250 GB / 5400 rpm, DVD Recordable, Compact Flash reader, ExpressCard slot, 2 GB, Intel Turbo Memory 2 GB, Intel wireless WiFi Link 5300 AGN (3 x 3), Genuine Windows Vista Business (64-bit), 9 Cell battery)			

Taiwan - Traditional Chinese Machines

Description	Genuine Windows Vista Business (64-bit)		
	Order Number	Machine Type	Model

ThinkPad w700ds	2752E7V	2752	E7V
(17" WUXGA & 10.6" WXGA TFT, Intel PM45 Express Chipset, NVIDIA Quadro FX 3700 (1 GB), Integrated camera, Bluetooth wireless, Integrated fingerprint reader, Integrated color calibration, Digitizer and pen, Intel Core 2 Quad Core Extreme QX9300, 160 GB / 7200 rpm, 160 GB / 7200 rpm, DVD Recordable, two ExpressCard slots, 4 GB, Intel Wireless WiFi Link 5300 AGN (3 x 3), Genuine Windows Vista Business (64-bit), 9 Cell battery)			

ThinkPad w700ds	2752FBV	2752	FBV
(17" WUXGA & 10.6" WXGA TFT, Intel PM45 Express Chipset, NVIDIA Quadro FX 3700 (1 GB), Integrated camera, Bluetooth wireless, Integrated fingerprint reader, Integrated color calibration, Digitizer and pen, Intel Core 2 Quad Core Extreme QX9300, 64 GB Solid State Drive, 320 GB / 5400 rpm, DVD Recordable, two ExpressCard slots, 8 GB (4 GB x 2), Intel Turbo Memory 4 GB, Intel Wireless WiFi Link 5300 AGN (3 x 3), Genuine Windows Vista Business (64-bit), 9 Cell battery)			

ThinkPad w700ds	2752FCV	2752	FCV
(17" WUXGA & 10.6" WXGA TFT, Intel PM45 Express Chipset, NVIDIA Quadro FX 3700 (1 GB), Integrated camera, Bluetooth wireless, Integrated fingerprint reader, Integrated color calibration, Digitizer and pen, Intel Core 2 Duo T9600, 160 GB / 7200 rpm, 320 GB / 5400 rpm, DVD Recordable, Two ExpressCard slots, 4 GB (2 GB x 2), Intel Turbo Memory 4 GB, Intel Wireless WiFi Link 5300 AGN (3 x 3), Genuine Windows Vista Business (64-bit), 9 Cell battery)			

	Genuine Windows Vista Business		
	Order	Machine	
Description	Number	Type	Model
ThinkPad w700	2752F5V	2752	F5V
(17" WUXGA TFT, Intel PM45 Express Chipset, NVIDIA Quadro FX 3700 (1 GB), Integrated camera, Bluetooth wireless, Integrated fingerprint reader, Integrated color calibration, Digitizer and pen, Intel Core 2 Duo T9400, RAID-0, 320 GB / 5400 rpm, 320 GB / 5400 rpm, ThinkPad Blu-ray Disc Recordable, Compact Flash reader, ExpressCard slot, 2 GB, Intel Turbo Memory 2 GB, Intel Wireless WiFi Link 5300 AGN (3 x 3), Genuine Windows Vista Business, 9 Cell battery)			
ThinkPad w700	2752FAV	2752	FAV
(17" WUXGA TFT, Intel PM45 Express Chipset, NVIDIA Quadro FX 3700 (1 GB), Integrated camera, Bluetooth wireless, Integrated fingerprint reader, Integrated color calibration, Digitizer and pen, Intel Core 2 Duo T9400, RAID-1, 320 GB / 5400 rpm, 320 GB / 5400 rpm, ThinkPad Blu-ray Disc Recordable, Compact Flash reader, ExpressCard slot, 4 GB (2 GB x 2), Intel Turbo Memory 2 GB, Intel Wireless WiFi Link 5300 AGN (3 x 3),			

Optional features

For the latest information on options, including compatibility, available for the ThinkPad W700series mobile workstation, visit one of the following Web sites

<http://shop.lenovo.com/us/accessories>

<http://lenovo.com/accessoriesguide>

Technical information

Specified operating environment

Physical specifications

For the 431.8-mm (17.0-in) workstation display:

- Maximum width: 410 mm (16.1 in)
- Maximum depth: 310 mm (12.2 in)
- Height: 40.6 to 41.4 mm (1.6 to 1.63 in)
- Height for dual screen model: 51.4 to 52.2 mm (2.02 to 2.06 in)

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

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 systems because they are not intended to withstand extreme temperatures, dust, shock, or other severe physical environments. Systems should not be used in unsuitable environments. For example, a ThinkPad system should not be used in nonstationary environments, such as in-vehicle installations, without additional casing or shock dissipation.

Software requirements

The preinstalled Microsoft® Windows Vista operating system supports the new ThinkPad W700 series mobile workstation.

Operating systems other than those preinstalled on the systems may not provide full-feature functionality. To view considerations or Service Hints and Tips by operating system, visit

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

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.

Limitations

ThinkPad W700 series models featuring the Windows Vista 32- or 64-bit operating system can support up to 2.5 GB or 4 GB of addressable memory respectively.

The Active Protection Systemtm is not supported on RAID configurations.

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

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

Planning information

Cable orders

All required cables are included in the shipment group.

Security, auditability, and control

Passwords

The following 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 and SSD passwords 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

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

Warranty period

- System hardware
 - One year on parts and labor on machine type 2754
 - Three years on parts and labor on machine type 2752
- 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

Under CRU service, your service provider will ship CRUs to you for installation by you. CRU information and replacement instructions are shipped with your product and are available from Lenovo at any time upon request. CRUs that are easily installed by you are called self-service CRUs, while optional-service CRUs may require some technical skill and tools. Installation of

self-service CRUs is your responsibility. You may request that a service provider install optional-service CRUs under one of the other types of warranty service designated for your product. An optional-service offering may be available from Lenovo to have Lenovo install self-service CRUs for you. You can find a list of CRUs and their designation in the publication that is shipped with your product or at

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

The requirement to return a defective CRU, if any, will be specified in the materials shipped with a replacement CRU. When return is required, return instructions, a prepaid return shipping label, and a container will be included with the replacement CRU. You may be charged for the replacement CRU if your service provider does not receive the defective CRU within 30 days of your receipt of the replacement.

Customer carry-in or mail-in service

Under customer carry-in or mail-in service, your product will be repaired or exchanged at a designated service center, with delivery or shipping arranged by you. You are responsible to deliver or mail the product, as your service provider specifies, (prepaid by you unless specified otherwise) suitably packaged to a designated location. After the product has been repaired or exchanged, it will be made available for your collection. Failure to collect the product may result in your service provider disposing of the product as it sees fit. For mail-in service, the product will be returned to you at Lenovo's expense, unless your service provider specifies otherwise.

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 method 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.

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

Licensed internal code and licensed machine code

This product does not contain licensed internal code and licensed machine code.

Educational allowance

None

Prices

For all local charges, contact your sales representative.

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AP distribution

Country/Region	Announced
AP IOT	
ASEAN*	Yes
India/South Asia**	Yes
Australia	Yes
People's Republic of China	Yes
Hong Kong S.A.R of the PRC	Yes
Macao S.A.R of the PRC	Yes
Taiwan	Yes
Korea	Yes
New Zealand	Yes
Japan IOT	
Japan	Yes

* Brunei Darussalam, Indonesia, Cambodia, Lao People's Democratic Republic, Malaysia, Philippines, Singapore, Thailand, Vietnam

**Bangladesh, Bhutan, India, Sri Lanka, Maldives, Nepal, Afghanistan

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