

## ThinkCentre M58e tower and small form factor systems offer excellent performance at competitive prices

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### At a glance



Benefits of the ThinkCentre® M58e systems include:

- Excellent performance with enhanced manageability and security:
  - Microsoft® Windows® XP or Vista operating system
  - High performance with the latest Intel® 45nm processor
  - Valuable Dual Independent Display on Intel platform
- Innovative mechanical design for easy upgrades and user experience
- ThinkVantage® technologies that help:
  - Make computing simpler
  - Lower your total cost
  - Increase PC availability and control

### Overview

ThinkCentre M58e offers great reliability, manageability, and performance with the latest ThinkVantage Technology benefits.

#### Leadership design

- 15 month stable image platform supports up to quad core processors
- Expandable HDD up to 1 TB
- New platform with DirectX 10 onboard
- Environmentally friendly

- GREENGUARD certified
- EPEAT: selected models are Gold rated
- Climate Savers Computing Initiative: select models (on Small Form Factor) include reduce power consumption
- Competitive ThinkVantage Technologies
- Dual-monitor support with DVI-D card
- Support for Blu-ray disk drive on tower models

#### **Easy to use and better user experience**

- ThinkVantage Rescue and Recovery® software: One-button recovery solution that lets you restore your previously saved system image, including data, applications, and operating system
- Easy access to key ThinkVantage Technologies
- Easy-to-service chassis design: Maximizes uptime, makes upgrades easy, and makes repairs fast with easy-to-use design
- Improved cable routing management for better user experience

#### **Optimized for connectivity**

Integrated Gigabit Ethernet standard in all configurations.

#### **Service and support**

Worldwide service and support<sup>1</sup>

For up-to-date marketing and technical information, visit

<http://www.lenovo.com>

Certain product family 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.

<sup>1</sup>

International Warranty Service (IWS) is available in any country in which this product is sold and serviced. Service delivery methods and parts availability vary by country, may be different from that in the country of purchase, and are subject to change without notice. Fees and restrictions may apply in some countries.

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### **Planned availability date**

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April 2009

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### **Description**

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## **Industry-leading technologies**

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- Intel G41 core chipset
- Intel quad-core processor
- Lenovo® systems include a fully integrated recovery environment that works when your operating system is not working
- Lenovo systems manage everything that changes when your location changes, not just your Internet connection
- Innovative toolless mechanical design for easy upgrades and service support
- 10k rpm hard drive support
- DisplayPort support
- Blu-ray recorder support (for Tower only)
- Integrated graphic with Intel Clear Video technology support
- ENERGY STAR 5.0 ready (small form factor only)

## **Leading business tools and data protection software**

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McAfee VirusScan Plus, with 30 days of virus definition updates, is a comprehensive antivirus product for Microsoft Windows operating systems that can simply and reliably detect and remove viruses from your computer.

## **Diagnostics**

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Lenovo System Toolbox powered by PC-Doctor diagnoses common problems on major system components. Diagnostic tests are run either locally or remotely through the Internet or an intranet.

## **Hardware**

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- Support for up to 4 GB of DDR2 SDRAM
- Integrated Gigabit Ethernet
- 16x max DVD-ROM (selected models)
- Blu-ray Recorder (selected models)
- DVD Recordable (selected models)
- Standard audio onboard
- Serial ATA HDD
- Advanced Configuration and Power Interface (ACPI) support
- One 25-pin parallel port
- Two 9-pin serial ports (second serial port via cable)
- Six USB 2.0 ports - two front, four rear for easy connection of peripherals
- Mouse, keyboard, and VGA monitor ports
- Line-out, line-in, microphone audio jack-in, and headphone-out ports

## **(4 x 5) Tower models**

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- One half-length, full-height, PCI Express x16
- One half-length, full-height, PCI Express x1
- Two half-length, full-height, 32-bit PCI 2.3
- One 3.5-inch external accessible bay (FDD)
- Two 3.5-inch internal hidden bay (HDD, one standard, one optional)
- Two 5.25-inch external half-high bay (optical drives)

## **(2 x 3) Small form factor models**

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- One half length, half height PCI Express x 16 slot

- One half length, half height PCI adapter slot
- One slim external accessible bay (25 in 1 card reader)
- One 3.5-inch standard size HDD bay (populated)
- One 5.25-inch external half-high bay (optical drives)

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#### Other software tools

The ThinkCentre M58e includes a unique set of software tools to help you manage your desktop computing assets.

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#### Backup copies of your software

The ThinkCentre M58e has a product recovery program resident on the system HDD. The ThinkVantage Rescue and Recovery program can back up your system and restore it to its previously saved level.

A hidden service partition will provide preload recovery.

For up-to-date marketing and technical information on your ThinkCentre M58e systems, visit

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

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### 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, your service provider will attempt to diagnose and resolve the problem remotely before sending a technician.

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.

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### Product number

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#### ThinkCentre products

ThinkCentre M58e (2x3 Small Form Factor)

	Mach. Type	Model	Ordering Part No.
Intel Core 2 Duo E8400 processor, 3.0GHz/1333MHz, 6MB Cache, 2048MB Memory(2), 160GB HDD(3), Microsoft Windows Vista Business 32(4), Basic label, DVD Recordable, Gigabit Ethernet Adapter, Integrated Intel Graphics Media Accelerator 4500, Integrated Audio, USB Preferred Pro Full-size Keyboard, Optical Mouse, Internal Mono Speaker	7279	A8G	SLHA8XX
Intel Celeron® Dual Core E1400 processor, 2.0GHz/800MHz, 512KB Cache, 2048MB Memory, 160GB HDD, Microsoft windows Vista Business 32, Basic label, DVD Recordable,	7303	A7G	SLNA7XX

Gigabit Ethernet Adapter,  
Integrated Intel Graphics Media Accelerator 4500,  
Integrated Audio,  
USB Preferred Pro Full-size Keyboard,  
Optical Mouse, Internal Mono Speaker

Intel Core 2 Quad Q8200 processor, 7303 B3G SLNB3XX  
2.33GHz/1333MHZ, 4MB Cache,  
2048MB Memory, 250GB HDD,  
Microsoft windows Vista Business 32, Basic label,  
DVD Recordable,  
Gigabit Ethernet Adapter,  
Chassis Intrusion Switch,  
Integrated Intel Graphics Media Accelerator 4500,  
Integrated Audio,  
USB Preferred Pro Full-size Keyboard,  
Optical Mouse, Internal Mono Speaker

Intel Core 2 Duo E7300 processor, 7303 B1G SLNB3XX  
2.66GHz/1066MHZ, 3MB Cache,  
2048MB Memory, 250GB HDD,  
Microsoft windows Vista Business 32, Basic label,  
DVD Recordable,  
Gigabit Ethernet Adapter,  
Chassis Intrusion Switch,  
Integrated Intel Graphics Media Accelerator 4500,  
Integrated Audio,  
USB Preferred Pro Full-size Keyboard,  
Optical Mouse, Internal Mono Speaker

Intel Core 2 Duo E7400 processor, 7303 C3G SLNC3XX  
2.8GHz/1066MHZ, 3MB Cache,  
2048MB Memory, 250GB HDD,  
Microsoft windows Vista Business 32, Basic label,  
DVD Recordable,  
Gigabit Ethernet Adapter,  
Chassis Intrusion Switch, Floor Stand,  
Integrated Intel Graphics Media Accelerator 4500,  
Integrated Audio,  
USB Preferred Pro Full-size Keyboard,  
Optical Mouse, Internal Mono Speaker

Intel Core 2 Duo E8500 processor, 7303 B2G SLNB2XXG  
3.16GHz/1333MHZ, 6MB Cache,  
2048MB Memory, 250GB HDD,  
Microsoft windows Vista Business 32, Basic label,  
DVD Recordable,  
Gigabit Ethernet Adapter,  
Chassis Intrusion Switch,  
Integrated Intel Graphics Media Accelerator 4500,  
Integrated Audio,  
USB Preferred Pro Full-size Keyboard,  
Optical Mouse, Internal Mono Speaker

Intel Pentium® Dual Core E5200 processor, 7303 A9G SLNA9XX  
2.5GHz/800MHZ, 2MB Cache,  
2048MB Memory, 160GB HDD,  
Microsoft windows Vista Business 32, Basic label,  
DVD Recordable,  
Gigabit Ethernet Adapter,  
Chassis Intrusion Switch,  
Integrated Intel Graphics Media Accelerator 4500,  
Integrated Audio,  
USB Preferred Pro Full-size Keyboard,  
Optical Mouse, Internal Mono Speaker

Intel Celeron 440 processor, 7306 A5G SLPA5XX  
1.8GHz/800MHZ, 512KB Cache,  
1024MB Memory, 160GB HDD,  
windows XP Professional with Vista  
Business 32 RDVD, Basic label,  
16x Max DVD-ROM(5),  
Gigabit Ethernet Adapter,

Integrated Intel Graphics Media Accelerator 4500,  
Integrated Audio,  
USB Preferred Pro Full-size Keyboard,  
Optical Mouse, Internal Mono Speaker

Intel Core 2 Duo E7300 processor, 7306 A3G SLPA3XX  
2.66GHz/1066MHz, 3MB Cache,  
2048MB Memory, 250GB HDD,  
Microsoft Windows Vista Business 32, Basic label,  
DVD Recordable,  
Gigabit Ethernet Adapter,  
Integrated Intel Graphics Media Accelerator 4500,  
Integrated Audio,  
USB Preferred Pro Full-size Keyboard,  
Optical Mouse, Internal Mono Speaker

Intel Core 2 Duo E7400 processor, 7306 A7G SLPA7XX  
2.8GHz/1066MHz, 3MB Cache,  
1024MB Memory, 160GB HDD,  
Windows XP Professional with Vista  
Business 32 RDVD, Basic label,  
16x Max DVD-ROM,  
Gigabit Ethernet Adapter,  
Integrated Intel Graphics Media Accelerator 4500,  
Integrated Audio,  
USB Preferred Pro Full-size Keyboard,  
Optical Mouse, Internal Mono Speaker

Intel Core 2 Duo E8500 processor, 7306 A4G SLPA4XX  
3.16GHz/1333MHz, 6MB Cache,  
2048MB Memory, 250GB HDD,  
Microsoft Windows Vista Business 32, Basic label,  
DVD Recordable,  
Gigabit Ethernet Adapter,  
Integrated Intel Graphics Media Accelerator 4500,  
Integrated Audio,  
USB Preferred Pro Full-size Keyboard,  
Optical Mouse, Internal Mono Speaker

Intel Pentium Dual Core E5200 processor, 7306 A6G SLPA6XX  
2.5GHz/800MHz, 2MB Cache,  
1024MB Memory, 160GB HDD,  
Windows XP Professional with Vista  
Business 32 RDVD, Basic label,  
16x Max DVD-ROM,  
Gigabit Ethernet Adapter,  
Integrated Intel Graphics Media Accelerator 4500,  
Integrated Audio,  
USB Preferred Pro Full-size Keyboard,  
Optical Mouse, Internal Mono Speaker

Intel Pentium Dual Core E5200 processor, 7306 A2G SLPA2XX  
2.5GHz/800MHz, 2MB Cache,  
2048MB Memory, 160GB HDD,  
Windows XP Professional with Vista  
Business 32 RDVD, Basic label,  
DVD Recordable,  
Gigabit Ethernet Adapter,  
Integrated Intel Graphics Media Accelerator 4500,  
Integrated Audio,  
USB Preferred Pro Full-size Keyboard,  
Optical Mouse, Internal Mono Speaker

ThinkCentre M58e (4x5 Tower)

	Mach. Type	Model	Ordering Part No.
Intel Core 2 Duo E8400 processor, 3.0GHz/1333MHz, 6MB Cache, 2048MB Memory, 160GB HDD,	7270	A1G	SLGA1XX

Microsoft Windows Vista Business 32, Basic label,  
DVD Recordable,  
Gigabit Ethernet Adapter,  
Integrated Intel Graphics Media Accelerator 4500,  
Integrated Audio,  
USB Preferred Pro Full-size Keyboard,  
Optical Mouse, Internal Mono Speaker

Intel Celeron Dual Core E1400 processor, 7298 A9G SLMA9XX  
2.0GHz/800MHz, 512KB Cache,  
2048MB Memory, 160GB HDD,  
Microsoft Windows Vista Business 32, Basic label,  
DVD Recordable,  
Gigabit Ethernet Adapter,  
Integrated Intel Graphics Media Accelerator 4500,  
Integrated Audio,  
USB Preferred Pro Full-size Keyboard,  
Optical Mouse, Internal Mono Speaker

Intel Core 2 Quad Q8200 processor, 7298 B5G SLMB5XX  
2.33GHz/1333MHz, 4MB Cache,  
2048MB Memory, 250GB HDD,  
Microsoft Windows Vista Business 32, Basic label,  
DVD Recordable,  
Gigabit Ethernet Adapter,  
Chassis Intrusion Switch,  
Integrated Intel Graphics Media Accelerator 4500,  
Integrated Audio,  
USB Preferred Pro Full-size Keyboard,  
Optical Mouse, Internal Mono Speaker

Intel Core 2 Duo E7300 processor, 7298 B3G SLMB3XX  
2.66GHz/1066MHz, 3MB Cache,  
2048MB Memory, 250GB HDD,  
Microsoft Windows Vista Business 32, Basic label,  
DVD Recordable,  
Gigabit Ethernet Adapter,  
Chassis Intrusion Switch,  
Integrated Intel Graphics Media Accelerator 4500,  
Integrated Audio,  
USB Preferred Pro Full-size Keyboard,  
Optical Mouse, Internal Mono Speaker

Intel Core 2 Duo E7400 processor, 7298 B9G SLMB9XX  
2.8GHz/1066MHz, 3MB Cache,  
2048MB Memory, 250GB HDD,  
Microsoft Windows Vista Business 32, Basic label,  
DVD Recordable,  
Gigabit Ethernet Adapter,  
Chassis Intrusion Switch,  
Integrated Intel Graphics Media Accelerator 4500,  
Integrated Audio,  
USB Preferred Pro Full-size Keyboard,  
Optical Mouse, Internal Mono Speaker

Intel Core 2 Duo E8500 processor, 7298 B4G SLMB4XX  
3.16GHz/1333MHz, 6MB Cache,  
2048MB Memory, 250GB HDD,  
Microsoft Windows Vista Business 32, Basic label,  
DVD Recordable,  
Gigabit Ethernet Adapter,  
Chassis Intrusion Switch,  
Integrated Intel Graphics Media Accelerator 4500,  
Integrated Audio,  
USB Preferred Pro Full-size Keyboard,  
Optical Mouse, Internal Mono Speaker

Intel Pentium Dual Core E5200 processor, 7298 B2G SLMB2XX  
2.5GHz/800MHz, 2MB Cache,  
2048MB Memory, 160GB HDD,  
Microsoft Windows Vista Business 32, Basic label,  
DVD Recordable,

Gigabit Ethernet Adapter,  
Chassis Intrusion Switch,  
Integrated Intel Graphics Media Accelerator 4500,  
Integrated Audio,  
USB Preferred Pro Full-size Keyboard,  
Optical Mouse, Internal Mono Speaker

Intel Celeron 440 processor, 7304 A5G SLOA5XX  
1.8GHz/800MHz, 512KB Cache,  
1024MB Memory, 160GB HDD,  
Windows XP Professional with Vista  
Business 32 RDVD, Basic label,  
16x Max DVD-ROM,  
Gigabit Ethernet Adapter,  
Integrated Intel Graphics Media Accelerator 4500,  
Integrated Audio,  
USB Preferred Pro Full-size Keyboard,  
Optical Mouse, Internal Mono Speaker

Intel Core 2 Duo E7300 processor, 7304 A3G SLOA3XX  
2.66GHz/1066MHz, 3MB Cache,  
2048MB Memory, 250GB HDD,  
Microsoft Windows Vista Business 32, Basic label,  
DVD Recordable,  
Gigabit Ethernet Adapter,  
Integrated Intel Graphics Media Accelerator 4500,  
Integrated Audio,  
USB Preferred Pro Full-size Keyboard,  
Optical Mouse, Internal Mono Speaker

Intel Core 2 Duo E7400 processor, 7304 A7G SLOA7XX  
2.8GHz/1066MHz, 3MB Cache,  
1024MB Memory, 160GB HDD,  
Windows XP Professional with Vista  
Business 32 RDVD, Basic label,  
16x Max DVD-ROM,  
Gigabit Ethernet Adapter,  
Integrated Intel Graphics Media Accelerator 4500,  
Integrated Audio,  
USB Preferred Pro Full-size Keyboard,  
Optical Mouse, Internal Mono Speaker

Intel Core 2 Duo E8500 processor, 7304 A4G SLOA4XX  
3.16GHz/1333MHz, 6MB Cache,  
2048MB Memory, 250GB HDD,  
Microsoft Windows Vista Business 32, Basic label,  
DVD Recordable,  
Gigabit Ethernet Adapter,  
Integrated Intel Graphics Media Accelerator 4500,  
Integrated Audio,  
USB Preferred Pro Full-size Keyboard,  
Optical Mouse, Internal Mono Speaker

Intel Pentium Dual Core E5200 processor, 7304 A2G SLOA2XX  
2.5GHz/800MHz, 2MB Cache,  
2048MB Memory, 160GB HDD,  
Windows XP Professional with Vista  
Business 32 RDVD, Basic label,  
DVD Recordable,  
Gigabit Ethernet Adapter,  
Integrated Intel Graphics Media Accelerator 4500,  
Integrated Audio,  
USB Preferred Pro Full-size Keyboard,  
Optical Mouse, Internal Mono Speaker

Intel Pentium Dual Core E5200 processor, 7304 A6G SLOA6XX  
2.5GHz/800MHz, 2MB Cache,  
1024MB Memory, 160GB HDD,  
Windows XP Professional with Vista  
Business 32 RDVD, Basic label,  
16x Max DVD-ROM,  
Gigabit Ethernet Adapter,



Integrated Intel Graphics Media Accelerator 4500,  
Integrated Audio,  
USB Preferred Pro Full-size Keyboard,  
Optical Mouse, Internal Mono Speaker

2

For models without a separate video card, memory supports both system and video. Accessible system memory may be up to 64 MB less than the amount stated, depending on video mode.

3

GB equals 1,000,000,000 bytes when referring to storage capacity. Up to 1.5 GB is used in service partition.

4

Some software may differ from its retail version (if available), and may not include user manuals or all program functionality. Software license agreements may apply.

5

CD and DVD drives list maximum rates; rates are variable and are often less than the maximum possible.

6

Second memory slot populated.

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## Technical information

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### Specified operating environment

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#### *HDD specifications*

Formatted capacity(3)	160 GB	250 GB
Interface	Serial ATA	Serial ATA
Rotational Speed	7200 rpm	7200 rpm
Read/write cache	Yes	Yes

3

GB equals 1,000,000,000 bytes when referring to storage capacity. Up to 1.5 GB is used in service partition.

#### *Mechanical specifications*

##### *Tower dimensions/weights*

- Width: 175 mm ( 6.9 in)
- Depth: 440 mm (17.3 in)
- Height: 402 mm (15.8 in)
- Weight: 11.2 kg (24.7 lb)

##### *Small Form Factor dimensions/weights*

- Width: 317 mm (12.48 in)
- Depth: 355 mm (13.98 in)
- Height: 99 mm ( 3.9 in)
- Weight: 7.5 kg (16.5 lb)

To ensure installability and serviceability in non-Lenovo industry standard racks, review the installation planning information for any product specific installation requirements.

#### *Electrical power specifications*

##### *Tower systems*

- 450-watt (auto-sensing) supply with variable speed fan
  - 100 to 240 (nominal) V ac; 50 to 60 Hz; 7.0 A/3.5 A (max)
- 280-watt (auto-sensing) supply with variable speed fan
  - 100 to 240 (nominal) V ac; 50 to 60 Hz; 8.0 A/4.0 A (max)

- 280-watt (manual switch) supply with variable speed fan
- 110- or 220-volt operation controlled by a switch on the back of the unit
  - 100 to 127 (nominal) V ac; 50 to 60 Hz; 8.0 A (max)
  - 200 to 240 (nominal) V ac; 50 to 60 Hz; 4.0 A (max)

#### ***Small form factor systems***

- 280-watt auto-sensing power supply unit
- 110- or 220-volt operation
  - 100 to 240 (nominal) V ac; 50 to 60 Hz; 8.0 A / 4.0A (max)

**Note:** Power consumption and heat output vary depending on the number and type of optional features installed and the power-management optional features in use.

#### ***Air temperature specifications:***

- System on: 10 to 35° C (50 to 95° F)
- System off:
  - With package: -40 to 60° C (-40 to 140° F)
  - Without package: -10 to 60° C (14 to 140° F)
- Maximum altitude:
  - System on: -15.2 to 3048 m (-50 to 10,000 ft)
  - System off: -15.2 to 10,668 m (-50 to 35,000 ft)

**Note:** The maximum altitude is the altitude at which the specified air temperatures apply. At higher altitudes, the maximum air temperatures are lower than those specified.

#### ***Noise level specifications***

Declared acoustical noise emissions

#### ***Tower systems***

- Declared (upper-limit) sound-power levels:
  - Idle: 3.5 bels
  - Operating: 4.0 bels
- Average sound-pressure levels at operator position:
  - Idle: 25 dBA
  - Operating: 27 dBA

#### ***Small form factor systems***

- Declared (upper-limit) sound-power levels:
  - Idle: 3.7 bels
  - Operating: 4.0 bels
- Average sound-pressure levels at operator position:
  - Idle: 27 dBA
  - Operating: 29 dBA

**Note:** These levels were tested through standard model with one HDD and normal VGA card, and were measured in controlled acoustical environments according to the procedures specified by the American National Standards Institute (ANSI) S12.10 and ISO 7779 and are reported in accordance with ISO 9296. Actual sound-pressure levels in a given location might exceed the average values stated because of room reflections and other nearby noise sources. The declared sound-power levels indicate an upper limit, below which a large number of computers will operate.

### **Industry standards**

ThinkCentre M58e systems conforms to the following industry standards:

- ACPI v2.0 compatible
- ATAPI
- DMI v2.0
- IEEE 1284 (enhanced parallel port)
- IEEE 1294 (parallel port)
- IEEE 802.3 (Ethernet)
- JEDEC 240-pin DIMM memory
- SmBios v2.3.4
- PC 2001
- PCI v2.2 and PCI BIOS v2.1
- Serial ATA
- PXE v2.1
- USB v2.0

### **Certifications**

ThinkCentre M58e systems carry the following certifications:

- Operating systems
  - Linux® - Red Hat Enterprise Workstation 5.0
  - Linux - SuSE Linux Enterprise Desktop 10
  - Linux - Ubuntu
- EMC
  - FCC - Part 15, Class B (US, Canada)
  - CE Mark (Europe)
  - VCCI V-3/V-4, Class B (Japan, radiated)
  - C-Tick (Australia, New Zealand)
  - BMSI - CNS13438, Class B (Taiwan)
  - KCC (Korea)
- Safety
  - UL (US, Canada)
  - CB Certificate (Worldwide)
  - UL-GS (Europe)
  - NOM (Mexico)
  - SABS (South Africa)
  - PSB (Singapore)
  - Argentina UL plus S Mark (Argentina)
  - CE European Union
  - BMSI
- EMC and Safety
  - CCC (China)
  - GOST (Russia)
  - SASO (Saudi Arabia)
- Other
  - ENERGY STAR (US)
  - PC Green Label (Japan)
  - Taiwan Battery Recycle Mark

- WEEE Waste Symbol

ThinkCentre M58e systems may carry other certifications that are not listed above.

### ***Operating environment***

#### **Tower systems**

- Relative humidity
  - Operating: 10 to 80 % non-condensing (10% per hour)
  - Non-operating: 10 to 90 % non-condensing (10% per hour)
- Wet bulb temperature:
  - Operating: 25° C (max)
  - Non-operating: 40° C (max)

#### **Small form factor systems**

- Relative humidity:
  - Operating: 10% to 80% non-condensing (10% per hour)
  - Non-operating: 10% to 90% non-condensing (10% per hour)
- Wet bulb temperature:
  - System on: 25° C (max)
  - System off: 40° C (max)

### ***Operating system support***

ThinkCentre M58e systems are either preloaded or tested for compatibility with the following operating systems. Lenovo will provide problem determination for these operating systems and provide device driver support for the hardware installed from the factory.

Preloaded software:

- Microsoft Windows Vista Business 32
- Microsoft Windows Vista Business with Windows XP Professional downgrade

Tested software:

- Microsoft Windows XP Professional Edition downgrade from Vista
- Microsoft Windows Vista Business 32
- Microsoft Windows Vista Business 64
- Microsoft Windows Vista Home Basic 32
- Microsoft Windows Vista Ultimate 32
- Microsoft Windows Vista Home Premium 32

Operating system video graphics driver support is required for graphics capabilities. Although these systems have been compatibility tested with the above operating systems, additional video driver support may be required from the operating system vendor.

Other operating systems have not been tested and Lenovo does not provide problem determination or device driver support.

### ***BIOS***

Flash ROM supports Compatibility BIOS (CBIOS) and POST.

### ***Plug-and-play support***

Systems support the plug-and-play specifications that make it easier for you to install, upgrade, and make changes to the PC. Plug-and-play systems that use plug-and-play adapter cards are self-configuring.

### ***ACPI***

ACPI provides an industry-standard method to control system-level resources via the operating system.

### ***BIOS setup utility***

The BIOS setup utility program implements power-saving functions.

### ***Desktop Management Interface (DMI)***

The ThinkCentre systems are DMI V2.0-compliant.

## **Planning information**

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### ***Cable orders***

Except for system power, keyboard, and mouse connections, there are no cabling requirements. All cables are provided with the system unit. Instructions are provided as part of initial setup.

### ***Installability***

Following the set up instructions, attach the keyboard and peripherals then turn on the power. Setup is run after the computer has successfully completed its initial self tests.

The setup utility resides in flash ROM. In some instances, you are prompted to run this utility, or you can invoke it by pressing the F1 key when prompted during system startup.

All power supplies have built-in overload and surge protection.

## **Security, auditability, and control**

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The ThinkCentre M58e systems support the following security features:

- One lock to secure both cover and entire system to fixed object:
  - Security slot (in rear for optional Kensington Microsaver cable)
  - Padlock
  - No keylock
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard, mouse, diskette
- USB/Ethernet/serial/parallel/SATA/diskette enable or disable
- Disable/enable all USB port

The following is also visible on the outside of the system unit:

- Machine type and model number
- System serial number

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

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## Terms and conditions

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

### ***Warranty period for machine type 7298 and 7303***

- System hardware - Three years on site on parts and labor - second business day

### ***Warranty period for machine type 7270 and 7279***

- System hardware - One year on site on parts and labor - second business day

### ***Warranty period for machine type 7306 and 7304***

- System hardware - Three years carry in on parts and labor

Optional Lenovo features initially installed in a Lenovo system carry the same w 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 below 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, and 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.

### ***On-site service***

Your service provider will either repair or exchange the failing machine at your location and verify its operation. You must provide a suitable working area to allow disassembly and reassembly of the machine. The area must be clean, well-lit, and suitable for the purpose. For some machines, certain repairs may require sending the machine to a designated service center.

### ***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 license agreements that are shipped with the system.

### Lenovo ThinkPlus® Warranty Upgrades

The announced Lenovo ThinkCentre machine types are eligible for Lenovo ThinkPlus Warranty Upgrades and Post Warranty offerings. Lenovo ThinkPlus provides a higher level of warranty service than that provided by the Lenovo Base Warranty.

Note :- Only one warranty Upgrade per Machine Serial Number can be active. A Post warranty offering can be added when a Warranty Upgrade is active. The Post warranty offering will only become active at the end date of the warranty upgrade or Base Warranty period if later.

LENOVO BUSINESS PARTNERS AND DISTRIBUTOR CHANNELS EMEA  
Region 1

Lenovo ThinkPlus offerings are specific to the Machines Types and products listed.

Lenovo ThinkPlus Offering	L No	Upgrade Type	Ordering P/N
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For 7279, 7270 with 1 Yr On-Site Service 2ndBD\*\* Base Warranty:

3 Yr On-Site Service NBD*	L500	ThinkPlus	41D0011
3 Yr On-Site Service NBD*+ HDD***	L650	ThinkPlus	46D5018
4 Yr On-Site Service NBD*	L515	ThinkPlus	41E9870
1 Yr On-site Service NBD* Post Warranty	L343	ThinkPlus	41C9859

For 7306, 7304 with 3 Yr Customer Carry In Base Warranty:

4 Yr Customer Carry-In	L511	ThinkPlus	41E9866
3 Yr On-Site Service NBD*	L40	ThinkPlus	41C9425
3 Yr On-Site Service NBD*+ HDD***	L651	ThinkPlus	46D5019
4 Yr On-Site Service NBD*	L512	ThinkPlus	41E9867
1 Yr On-site Service NBD* Post warranty	L160	ThinkPlus	41C9550

For 7303, 7298 with 3 Yr On-Site Service 2ndBD\*\* Base Warranty:

3 Yr On-Site Service NBD*	L374	ThinkPlus	41C9429
3 Yr On-Site Service NBD*+ HDD***	L653	ThinkPlus	46D5021
4 Yr On-Site Service NBD*	L516	ThinkPlus	41E9871
1 Yr On-site Service NBD* Post warranty	L160	ThinkPlus	41C9550

#### Notes

- \* NBD = Next Business Day Response Target
- \*\* 2ndBD = Second Business Day Response Target
- \*\*\* HDD = The customer or his appointed representative may retain any or all Hard Disk Drives or Solid State Drives removed from the machine if it has been replaced as part of the repair process or if the machine is to be removed

from the customers control or presence any or all HDD's or SSD's can be removed and retained by the customer or his appointed representative.

EMEA Region 1 ANNOUNCEMENT COUNTRIES FOR THE INCLUDED LENOVO THINKPLUS L.No PACS.

Announcement is restricted to the following countries:

Austria	Belgium	Denmark	Finland	France*
Germany	Ireland	Israel	Italy	Luxemburg
Netherlands	Norway	Portugal	Spain	Sweden
Switzerland	UK**			

Notes

\* Excludes DOM/TOM and all other overseas territories and dependencies.

\*\* Mainland UK only for On Site Services.

LENOVO BUSINESS PARTNERS AND DISTRIBUTOR CHANNELS - EMEA Region 2

Lenovo ThinkPlus offerings are specific to the machines & products listed.

Lenovo ThinkPlus Offering	C No	Upgrade Type	Ordering P/N
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For 7279, 7270 with 1 Yr On-Site Service 2ndBD\*\* Base Warranty:

3 Yr On-Site Service NBD*	C616	ThinkPlus	12X6417
3 Yr On-Site Service NBD*+ HDD****	C646	ThinkPlus	46D5014
4 Yr On-Site Service NBD*	C617	ThinkPlus	12X6418

For 7306, 7304 with 3 Yr Customer Carry In Base Warranty:

4 Yr Customer Carry-In	C545	ThinkPlus	10N3163
3 Yr On-Site Service NBD*	C635	ThinkPlus	12X6451
3 Yr On-Site Service NBD* + HDD****	C647	ThinkPlus	46D5015
4 Yr On-Site Service NBD*	C636	ThinkPlus	12X6452

For 7303, 7298 with 3 Yr On-Site Service 2ndBD\*\* Base Warranty:

4 Yr On-Site Service NBD*	C618	ThinkPlus	12X6419
3 Yr On-Site Service NBD* + HDD****	C649	ThinkPlus	46D5017

Notes

\* NBD = Next Business Day Response Target.

\*\* 2ndBD = Second Business Day Response Target.

\*\*\*\* HDD = The customer or his appointed representative may retain any or all Hard Disk Drives or Solid State Drives removed from the machine if it has been replaced as part of the repair process or if the machine is to be removed from the customers control or presence any or all HDD's or SSD's can be removed and retained by the customer or his appointed representative.

EMEA Region 2 ANNOUNCEMENT COUNTRIES FOR THE INCLUDED LENOVO THINKPLUS C No. PACS.

Announcement is restricted to the following countries:

Bulgaria*	Croatia	Czech Republic	Greece
Hungary	Poland	Romania	Slovakia
Slovenia**	South Africa	Turkey	

Notes

\* Bulgaria is limited to Sofia for On-Site Service

\*\* Slovenia is limited to 50 Km of Ljubljana for On-Site Service



One,  
Two,  
Three,  
Four

**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**

These products do not contain licensed internal code or licensed machine code.

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## Prices

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For all local charges, contact your sales representative.

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

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## Announcement countries

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All European, Middle Eastern, and African Countries.

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