

New ThinkCentre M58e tower and small form factor systems are ENERGY STAR 5.0 compliant and support Microsoft Windows 7

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At a glance



Benefits of the ThinkCentre® M58e systems include:

- Excellent performance with enhanced manageability and security:
 - Microsoft® Windows® XP Professional or Windows 7 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. All models are Microsoft Windows 7 capable.

Lenovo® PCs with Microsoft Windows 7 give you the best computing experience possible. These PCs feature faster boot and connection times, enhanced entertainment options, and industry-leading ThinkVantage Technologies. New ThinkVantage Technologies are significantly faster, easier to use, and continue to deliver unmatched security, connectivity, and manageability. Select Lenovo systems are optimized for the new applications of Windows 7.

These models include new technologies to ensure ENERGY STAR 5.0 compliance, offering additional configurations with lower power consumption and heat emissions to protect the environment.

Leadership design

- 15-month stable image platform supports up to quad core processors
- Expandable HDD up to 1 TB¹
- New platform with DirectX 10 onboard
- Environmentally friendly:
 - GREENGUARD certified
 - Select models are EPEAT Gold rated
 - Climate Savers Computing Initiative: select small form factor models reduce power consumption
- Competitive ThinkVantage Technologies
- Dual-monitor support with DVI-D card
- Support for Blu-ray disc drive on tower models

Easy to use and manage

- 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 Technologies²
- Easy-to-service chassis design: Maximizes uptime, makes upgrades easy, and makes repairs fast with ease-of-use design
- Improved cable routing management for better user experience

Optimized for connectivity

Integrated Gigabit Ethernet standard in all configurations

Worldwide service and support³

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.

¹ Maximum capacity may require the replacement of the standard component with the largest supported component available.

² Requires Internet access account, not included. Support is available during the limited warranty period.

³ 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.

Planned availability

October 2009

Description



Industry-leading technologies

- ENERGY STAR 5.0 compliant
- 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
- DisplayPort support
- Integrated graphics with Intel Clear Video technology

Leading business tools and data protection software

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

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

- Support for up to 4 GB of DDR2 SDRAM
- Integrated Gigabit Ethernet
- 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 and 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

(2 x 3) Small form factor models

- 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)

(4 x 5) Tower models

- 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)
- Two 5.25-inch external half-high bay (optical drives)

Other software tools

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

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>

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.

Product number

ThinkCentre products

For pricing information, refer to the [Prices](#) section.

ThinkCentre M58e (2 x 3 Small Form Factor)

	Machine Model type	Model	Ordering part number
Intel Pentium® Dual Core E6300 Processor, 2.8GHz/1066MHz, 2MB Cache, 2048MB Memory(4), 250GB HDD(5), Genuine Windows XP Professional (preinstalled through downgrade rights in Windows 7 Professional)(6), DVD Recordable, Gigabit Ethernet Adapter, Floor Stand, Integrated Intel Graphics Media Accelerator 4500, Integrated Audio, USB Preferred Pro Full-size Keyboard, Optical Mouse, Internal Mono Speaker	7506	N6U	7506-N6U

ThinkCentre M58e (4 x 5 Tower)

Intel Core 2 Quad Q9400 Processor, 2.66GHz/1333MHz, 6MB Cache, 1024+2048MB Memory(8), 320GB HDD, Genuine Windows XP Professional (preinstalled through downgrade rights in Windows 7 Professional), DVD Recordable, Gigabit Ethernet Adapter, Integrated Intel Graphics Media Accelerator 4500, Integrated Audio, USB Preferred Pro Full-size Keyboard, Optical Mouse, Internal Mono Speaker	7847	A7U	7847-A7U
Intel Pentium Dual Core E6300 Processor, 2.8GHz/1066MHz, 2MB Cache, 2048MB Memory, 250GB HDD, Genuine Windows XP Professional (preinstalled through downgrade rights in Windows 7 Professional), DVD Recordable, Gigabit Ethernet Adapter, Integrated Intel Graphics Media Accelerator 4500, Integrated Audio, USB Preferred Pro Full-size Keyboard, Optical Mouse, Internal Mono Speaker	7847	A3U	7847-A3U
Intel Core 2 Duo E7500 processor, 2.93GHz/1066MHz, 3MB Cache, 2048MB Memory, 250GB HDD, Genuine Windows XP Professional (preinstalled through downgrade rights in Windows 7 Professional), DVD Recordable, Gigabit Ethernet Adapter, Integrated Intel Graphics Media Accelerator 4500, Integrated Audio, USB Preferred Pro Full-size Keyboard, Optical Mouse, Internal Mono Speaker	7847	A4U	7847-A4U
Intel Pentium Dual Core E6300 Processor, 2.8GHz/1066MHz, 2MB Cache, 1024MB Memory, 250GB HDD,	7847	A2U	7847-A2U

Genuine windows XP Professional
 (preinstalled through downgrade
 rights in windows 7 Professional),
 16x Max DVD-ROM(7),
 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 E8400 Processor, 7847 A5U 7847-A5U
 3.0GHZ/1333MHZ, 6MB Cache,
 2048MB Memory, 250GB HDD,
 Genuine windows XP Professional
 (preinstalled through downgrade
 rights in windows 7 Professional),
 DVD Recordable,
 Gigabit Ethernet Adapter,
 Integrated Intel Graphics Media Accelerator 4500,
 Integrated Audio,
 USB Preferred Pro Full-size Keyboard,
 Optical Mouse, Internal Mono Speaker

⁴ 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.

⁵ GB equals 1,000,000,000 bytes when referring to storage capacity. Up to 1.5 GB is used in service partition.

⁶ 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.

⁷ CD and DVD drives list maximum rates; rates are variable and are often less than the maximum possible.

⁸ Second memory slot populated.

Technical information

Specified operating environment

HDD specifications

Formatted capacity ⁽⁵⁾	250 GB	320 GB	500 GB
Interface	Serial ATA	Serial ATA	Serial ATA
Rotational Speed	7200 rpm	7200 rpm	7200 rpm
Read/write cache	Yes	Yes	Yes

⁵ 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 and weights

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

Small form factor dimensions and weights

- Width: 317 mm (12.48 in)
- Depth: 355 mm (13.98 in)
- Height: 99 mm (3.9 in)

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

- 320-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 (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 80 plus auto-sensing power supply unit
- 110- or 220-volt operation
 - 100 to 240 (nominal) V ac; 50 to 60 Hz; 8.0 A/4.0 A (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: -40 to 60° C (-40 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

- 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 v2.3 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 - Ubuntu
 - Linux - SuSE Linux Enterprise Desktop 10
- 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
 - 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

- Relative humidity:
 - Operating: 20% to 80% (non-condensing)
 - Non-Operating: 20% to 90% (non-condensing)
- 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:

Windows XP Professional (preinstalled through downgrade rights in Genuine Windows 7 Professional)

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 DMIV2.0 - compliant.

Planning information

Customer responsibilities

Systems are designated as customer setup (CSU). CSU allowance is one day.

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

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 ports

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.

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
1009 Think Place
Morrisville, NC 27560
Attn: Dept ZPYA/Bldg. 3

Warranty period for machine types 7506 and 7847

- System hardware - Three years on parts and labor

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 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.

Call 800-426-7378 to assist with problem isolation for hardware to determine if service is required. Telephone support may be subject to additional charges, even during the limited warranty period.

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.

ThinkPlus and Lenovo Care maintenance services

Warranty and maintenance options

The announced products may be eligible for ThinkPlus® and Lenovo Care maintenance services, convenient prepackaged offerings for warranty service upgrades and maintenance services.

Contact your local sales representative for information on the availability of ThinkPlus services. Alternatively, you can also obtain a list of selected services available in your region from

<http://www.lenovo.com>

Select "Services & Warranty"

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.

Prices

For product descriptions, refer to the [Product number](#) section.

Description	Order number	List price*
Corporate M58e	7506N6U	\$699
Corporate M58e	7847A7U	\$994
Corporate M58e	7847A3U	\$694
Corporate M58e	7847A4U	\$754
Corporate M58e	7847A2U	\$649
Corporate M58e	7847A5U	\$774

* 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

The offerings below apply to all models of machine types 7506 and 7847.

Base warranty	warranty upgrades	Part number
3YR On-site	3YR On-site 9 x 5 x 4	41C9192
3YR On-site	3YR On-site 24 x 7 x 4	41C9193
3YR On-site	4YR On-site	41C9194
3YR On-site	4YR On-site 9 x 5 x 4	41C9195
3YR On-site	4YR On-site 24 x 7 x 4	41C9196
3YR On-site	5YR On-site	43R2161

Base warranty	HDD Retention offerings	Part number
3YR On-site	4YR On-site + HDD	43R8831
3YR On-site	3YR On-site + HDD	43R2157
3YR On-site	5YR On-site + HDD	45J8404

Base warranty	Priority offerings	Part number
3YR On-site	3 Yr DT Priority Enterprise - 3yr On-site NBD	45J9088
3YR On-site	4 Yr DT Priority Enterprise - 4yr On-site NBD	45J9089
3YR On-site	5 Yr DT Priority Enterprise - 5yr On-site NBD	45J9090
3YR On-site	3 Yr DT Priority 4 Enterprise - 3yr 24 x 7 x 4 on-site	45J9091
3YR On-site	4 Yr DT Priority 4 Enterprise - 4yr 24 x 7 x 4 on-site	45J9092
3YR On-site	5 Yr DT Priority 4 Enterprise - 5yr 24 x 7 x 4 on-site	45J9093

Base warranty	Online Data Backup offerings	Part number
ALL	10GB Online Data Backup	51J0794
ALL	25GB Online Data Backup	51J0802
ALL	50GB Online Data Backup	45K5849
ALL	Unlimited Online Data Backup	45K5870

ThinkPlus MA for post warranty

Base warranty	Post warranty maintenance	Part number
ALL	Post warranty 1YR On-site	41C9282
ALL	Post warranty 2YR On-site	41C9285
ALL	Post Warranty 1YR On-site 9x5x4	41C9283
ALL	Post Warranty 2YR On-site 9x5x4	41C9286
ALL	Post Warranty 1YR On-site 24x7x4	41C9284
ALL	Post warranty 2YR On-site 24x7x4	41C9287

For additional ThinkPlus Services information, visit

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

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Financing offering/capabilities: 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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