

New ThinkCentre A61e systems offer excellent performance at competitive prices

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At a glance

Benefits of the ThinkCentre A61e systems include:

- Microsoft Windows Vista Business 32 (select models)
- Excellent performance and room for growth:
 - High performance AMD processors
 - Outstanding 2D/3D graphics performance for demanding graphics applications
 - Support for Serial ATA devices
- Innovative toolless mechanical design for easy upgrades and service support
- ThinkVantage technologies that can help:
 - Make computing simpler
 - Lower your total cost
 - Increase PC availability and control

Overview

The ThinkCentre A61e series offers a blend of essential features and technology, including Microsoft Windows Vista Business 32, enhanced memory speed, integrated Gigabit Ethernet, a Preferred Pro full-size keyboard, AMD processor technology, and numerous data protection tools.

The Lenovo™ implementation of Windows Vista takes a great user experience and makes it even better. Lenovo systems include feature improvements in security, systems, recovery, and location management.

Leadership design

- Systems include a fully integrated recovery environment that works when your operating system is not working
- Innovative toolless mechanical design for easy upgrades and service support
- Support for up to 4 GB of double data rate 2 (DDR2) system memory¹

Easy to use and manage

- ThinkVantage™ Rescue and Recovery™ software: One-button recovery and restore solution that includes a set of self-recovery tools to help users diagnose, get help, and recover from system crashes

quickly, even if the primary operating system will not boot

- ThinkVantage Productivity Center: Guides you to a host of information and tools to help you set up, understand, maintain, and enhance your computer
- System Migration Assistant™: Enables system administrators and individual users to migrate a work environment (operating system preferences, files and folders, customized application settings, and user accounts) from one computer to another
- System Update: Software program that helps you keep the software on your system current, by downloading and installing software packages² (applications, device drivers, BIOS flashes and other updates)
- Easy-to-service chassis design helps maximize uptime Productivity Center program
- Easy-to-access high-speed USB 2.0 ports

Optimized for connectivity

Integrated Gigabit Ethernet

IBM service and support

Worldwide service and support³

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

<http://www.lenovo.com>

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

September 2007

Description

New ThinkCentre A61e systems offer industry-leading technologies, excellent management capabilities, and IBM service and support.

Industry-leading technologies

- New ultra small form factor
- Energy efficient AMD processors
- Integrated Gigabit Ethernet and video support
- Innovative toolless mechanical design for easy upgrades and service support

Leading business tools and data protection software

- Lenovo password management is easy to use. It enables secure access to your entire system and Web pages.
- 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.
- Norton Client Security, with 90 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

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
- 48x-32x-48x-16x max combination drive (select models)
- 16x max DVD-ROM drive (select models)
- DVD Recordable (select models)
- Standard audio onboard
- Serial ATA HDD
- Advanced Configuration and Power Interface (ACPI) support
- 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
- One 3.5-inch slim internal hidden bay (HDD)
- One 5.25-inch external half-high bay (optical drive)

Other software tools

The ThinkCentre A61e includes a unique set of software tools to help you manage your desktop computing assets.

Backup copies of your software: The ThinkCentre A61e 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 A61e 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.

Accessibility by people with disabilities

A U.S. Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance can be requested at

<http://www-03.ibm.com/research/accessibilit>

Trademarks

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Lenovo, ThinkVantage, Rescue and Recovery, and System Migration Assistant are trademarks of Lenovo in the United States, other countries, or both

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

Services

Global Technology Services

IBM services include business consulting, outsourcing, hosting services, applications, and other technology management.

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

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

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

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

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

For details on education offerings related to specific products, visit

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

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

Technical information

Physical specifications

HDD specifications

| | | |
|-----------------------|------------|------------|
| Formatted capacity(4) | 80 GB | 160 GB |
| Interface | Serial ATA | Serial ATA |
| Rotational Speed | 7200 rpm | 7200 rpm |
| Read/write cache | Yes | Yes |

(4) GB equals 1,000,000,000 bytes when referring to storage capacity. Accessible capacity is less; up to 4 GB is used in service partition.

Mechanical specifications

- Width: 275 mm (10.83 in)
- Depth: 242 mm (9.53 in)
- Height: 81 mm (3.19 in)
- Weight: 3.27 kg (7.2 lb) (minimum configuration)

- Weight: 3.72 kg (8.2 lb) (maximum configuration)

Electrical power specifications

- Low Range 100 to 127 (nominal) V ac; 50 to 60 Hz;
- High Range 200 to 240 (nominal) V ac; 50 to 60 Hz;
- Input kilovolt-amperes (kVA) (approximate):
- Minimum configuration as shipped: 0.05 kVA
- Maximum configuration: 0.12 kVA

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: 914.4 m (3,000 ft)

Note: The maximum altitude, 914.4 m (3,000 ft), is the maximum 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

- Declared (upper-limit) sound-power levels:
 - Idle: 3.8 bels
 - Operating: 4.0 bels
- Average sound-pressure levels at operator position:
 - Idle: 27 dBA
 - Operating: 30 dBA

Note: These levels 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.

Selected models of the ThinkCentre® A61e systems are designed to meet the EPA ENERGY STAR requirements.

Note: As an ENERGY STAR partner, Lenovo has determined that this product meets the ENERGY STAR guidelines for energy efficiency.

Industry standards: ThinkCentre A61e systems conforms to the following industry standards:

- ATAPI
- DMI v2.0
- IEEE 802.3 (Ethernet)
- JEDEC 240-pin DIMM memory
- PC 2001
- USB v2.0

Certifications: ThinkCentre A61e systems carry the following certifications:

- EMC
 - FCC — Part 15, Class B (US, Canada)
 - CE Mark (Europe)
 - VCCI V-3/V-4, Class B (Japan, radiated)
 - JEITA (Japan, harmonic)
 - ACA C-Tick (Australia, New Zealand)
 - BMSI — CNS13438, Class B (Taiwan)
 - MCI (Korea)
- Safety
 - UL (US)
 - CUL (Canada)
 - CB Certificate (Worldwide)
 - TUV-GS (Europe)
 - NOM (Mexico)
 - SABS (South Africa)
 - PST (Singapore)
 - IRAM (Argentina)
- EMC and Safety
 - GOST (Russia)
 - SASO (Saudi Arabia)
- Other
 - ENERGY STAR (US)
 - PC Green Label (Japan)
 - ISO 9241-3 capable (full compliance requires a certified monitor and fonts)

ThinkCentre A61e systems may carry other certifications that are not listed above.

Operating environment

- Relative humidity
 - System on: 10% to 80%
 - System off: 10% to 90%

Hardware requirements

Video: Operating system/driver support is required to provide the following VGA and SVGA video modes.

Select ThinkCentre A61e models have integrated video graphics and support the following video modes and screen refresh rates:

- 640 x 480, 256 colors (200 Hz)
- 640 x 480, 64K high color (200 Hz)
- 640 x 480, 16M true color (200 Hz)
- 800 x 600, 256 colors (200 Hz)
- 800 x 600, 64K high color (200 Hz)
- 800 x 600, 16M true color (200 Hz)
- 1024 x 768, 256 colors (200 Hz)

- 1024 x 768, 64K high color (200 Hz)
- 1024 x 768, 16M true color (200 Hz)
- 1152 x 864, 256 colors (200 Hz)
- 1152 x 864, 64K high color (200 Hz)
- 1152 x 864, 16M true color (200 Hz)
- 1280 x 720, 256 colors (160 Hz)
- 1280 x 720, 64K high color (160 Hz)
- 1280 x 720, 16M true color (160 Hz)
- 1280 x 1024, 256 colors (160 Hz)
- 1280 x 1024, 64K high color (160 Hz)
- 1280 x 1024, 16M true color (160 Hz)
- 1600 x 1200, 256 colors (120 Hz)
- 1600 x 1200, 64K high color (120 Hz)
- 1600 x 1200, 16M true color (120 Hz)
- 1920 x 1080, 256 colors (120 Hz)
- 1920 x 1080, 64K high color (120 Hz)
- 1920 x 1080, 16M true color (120 Hz)
- 1920 x 1200, 256 colors (100 Hz)
- 1920 x 1200, 64K high color (100 Hz)
- 1920 x 1200, 16M true color (100 Hz)
- 1920 x 1440, 256 colors (90 Hz)
- 1920 x 1440, 64K high color (90 Hz)
- 1920 x 1440, 16M true color (90 Hz)
- 2048 x 1536, 256 colors (85 Hz)
- 2048 x 1536, 64K high color (85 Hz)
- 2048 x 1536, 16M true color (85 Hz)

Notes:

- The attached monitor will affect the modes and frequencies available.
- Modes supported by an operating system are device driver dependent.

Software requirements

Operating system support: ThinkCentre A61e systems are either preloaded or tested for compatibility with the following operating system. Lenovo will provide problem determination for this operating system and provide device driver support for the hardware installed from the factory.

Preloaded: Microsoft™ Windows™ Vista Business 32 (select models)

Tested software:

- Microsoft Windows Vista Business 32
- Microsoft Windows XP Professional
- Linux™
- PC DOS (limited)

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.

Limitations: ThinkCentre A61e systems do not support a non hard disk drive configuration.

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.

HelpWare®: HelpWare is a comprehensive set of offerings that provides you with a full range of service and support options to help make your computing experience more productive and enjoyable. As part of Lenovo's commitment to provide you with the support you require, many complimentary HelpWare offerings and additional services are available from the HelpWare Support Family during the warranty period of your PC. For detailed information on HelpWare, call the Support Center at 800-426-7378.

Packaging: ThinkCentre A61e systems: System unit carton

- System unit
- Hardware assembly package
 - Power cord
 - Keyboard
 - Mouse
 - Publications

Security, auditability, and control

The ThinkCentre A61e systems support the following security features:

- Security slot (in rear for optional Kensington Microsaver cable)
- User and administrator passwords for BIOS access
- Startup sequence control
- Startup without keyboard, mouse, diskette drive
- Unattended start mode
- Hard disk I/O control

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

- Machine type and model
- 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 credit corporation 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
500 Park Offices Drive
Research Triangle Park, NC 27709
Attn: Dept ZPYA/B660

Warranty Period for machine type 6449

- 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, 1) return instructions and a container are shipped with the replacement CRU, and 2) 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 warranty 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 of the 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.

Refer to the Prices section for information on the availability of ThinkPlus and Lenovo Care maintenance services.

Field-installable features: Yes

Model conversions: No

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

Graduated program license charges apply: No. These products do not contain licensed internal code or licensed machine code.

Prices

| | Order number | Machine type/ model | List price(5) |
|--|-----------------|---------------------------|------------------|
| ThinkCentre A61e (0 x 2 Ultra Small Form Factor) | | | |
| AMD Sempron LE 1150 | | | |
| 2.00 GHz, 256 KB cache, 1024 MB memory(6), 80 GB HDD(7), Windows Vista Business 32(8), 48x/32x/48x/16x Max Combo drive(9) | 644911U(10) | 6449-11U | \$699 |
| AMD Athlon X2 BE 2350 | | | |
| 2.10 GHz, 1 MB cache, 1024 MB memory, 160 GB HDD, Windows Vista Business 32, DVD Recordable | 644912U(10) | 6449-12U | 799 |

- (5) List price does not include tax or shipping and is subject to change without notice. Reseller prices may vary.
- (6) 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.
- (7) GB equals 1,000,000,000 bytes when referring to storage capacity. Accessible capacity is less; up to 4 GB is used in service partition.
- (8) 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.

- (9) For Combo drives, maximum speeds are given in the following order:
CD write, CD re-write, CD read, DVD read.
- (10) Integrated 10/100/1000 Gigabit Ethernet and PC 5300 memory standard.

Note: All models include integrated ethernet, integrated audio, integrated graphics, a USB Preferred Pro full-size keyboard, an optical wheel mouse, internal mono speaker, and no diskette drive unless stated otherwise.

ThinkPlus Services for warranty and maintenance

The following offerings apply to models 11U and 12U of machine type 6449.

| Description | Part number |
|--|-------------|
| 3-year IOR 9 x 5 4-hour average response | 41C9192 |
| 3-year IOR 24 x 7 4-hour average response | 41C9193 |
| 4-year IOR 9 x 5 NBD | 41C9194 |
| 4-year IOR 9 x 5 4-hour average response | 41C9195 |
| 4-year IOR 24 x 7 4-hour average response | 41C9196 |

IOR = On-site repair

NBD = Next business day

ThinkPlus MA for post warranty

| Description | Part number |
|----------------------|-------------|
| 1-year IOR 9 x 5 NBD | 41C9282 |
| 1-year IOR 9 x 5 x 4 | 41C9283 |
| 1-year IOR 24 x 7 | 41C9284 |
| 2-year IOR 9 x 5 NBD | 41C9285 |
| 2-year IOR 9 x 5 x 4 | 41C9286 |
| 2-year IOR 24 x 7 | 41C9287 |

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

For ServiceElect (ESA) maintenance service charges, contact IBM Global Services at 888-426-4343.

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

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

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

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