Lenovo United States Announcement
107-607, dated October 23, 2007

New ThinkCentre A55 TopSeller small form factor models offer excellent performance at competitive prices

At a glance

Benefits of the ThinkCentre A55 systems include:

- Excellent performance and room for growth:
  - High performance and the latest Intel dual-core processors (selected models)
  - 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

These new models of the ThinkCentre® A55 series offer a blend of essential features and technology, including enhanced memory speed, a USB Preferred Pro full-size keyboard, Intel® dual-core processor technology, and numerous data protection tools.

What's new

Selected new models come with Core 2 Duo 4500 processors.

Leadership design

- Innovative toolless mechanical design for easy upgrades and service support
- Support for up to 4 GB of double data rate 2 (DDR2) system memory[1]

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
- ThinkVantage Productivity Center: Easy access to key ThinkVantage technologies and IBM service and support[2]
- Easy-to-service chassis design: Maximizes uptime, makes upgrades easy, and makes repairs fast with toolless cover removal, toolless slots, and internal bays that flip up and allow components to slide in

on rails

- Easy-to-access high-speed USB 2.0 ports

Optimized for connectivity

Integrated Gigabit Ethernet

IBM service and support

Worldwide service and support[3]

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 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

November 2007

Description

Industry-leading technologies

Lenovo systems include feature improvements in security, systems recovery, and location management.

- Lenovo password management is easy to use, enables secure access to your system and Web pages, and is integrated with the fingerprint reader available on many Lenovo systems

- 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

- Intel dual-core processors with integrated L2 cache

- Intel 946GZ core chipset

- Innovative toolless mechanical design for easy upgrades and service support

Leading business tools and data protection software

Symantec 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
- 16x max DVD-ROM (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 (2nd serial port via cable)
- Eight USB 2.0 ports — two front, six 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 PCI Express x 1 or one ADD 2-R slot — half length
- One PCI adapter slot — half length
- One 3.5-inch slim external accessible bay (FDD)
- One 3.5-inch standard size HDD bay (populated)
- One 5.25-inch external half-high bay (optical drives)

Other software tools

The ThinkCentre A55 includes a unique set of software tools to help you manage your desktop computing assets.

Backup copies of your software: The ThinkCentre A55 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 A55 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.

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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

Specified operating environment

HDD specifications

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

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(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.
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Mechanical specifications

- Width: 310 mm (12.2 in)

- Depth: 358 mm (14.1 in)

- Height: 87.5 mm (3.3 in)

- Weight: 8.5 kg (18.7 lb)

- Monitor weight on system: 45 kg (100 lb) maximum

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

- 225-watt 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; 6.0 A (maximum)
- 200 to 240 (nominal) V ac; 50 to 60 Hz; 3.0 A (maximum)

- Input kilovolt-amperes (kVA) (approximate):
  - Minimum configuration as shipped: 0.09 kVA
  - Maximum configuration: 0.23 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: 10° to 60°C (50° to 140°F)
- Maximum altitude: 914 m (3,000 ft)

Note: The maximum altitude, 914 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.

Airflow: Approximately 0.85 cubic meters per minute (30 cubic feet per minute) maximum

Noise level specifications: Declared acoustical noise emissions

- Declared (upper-limit) sound-power levels:
  - Idle: 4.0 bels
  - Operating: 4.4 bels
- Average sound-pressure levels at operator position:
  - Idle: 29 dBA
  - Operating: 33 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® A55 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 A55 systems conforms to the following industry standards:

- ACPI v2.3
- 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

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- PC 2001
- PCI v2.2 and PCI BIOS v2.1
- Serial ATA
- PXE v2.1
- USB v2.0

Certifications:

ThinkCentre A55 systems carry the following certifications:

- Operating systems:
  - Microsoft™ Windows™ Vista Business 32
  - Microsoft Windows Vista Home Basic 32
  - Microsoft Windows XP Professional Edition
  - Microsoft Windows XP Home Edition
- EMC
  - FCC — Part 15, Class B (U.S., 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 (U.S.)
  - CUL (Canada)
  - CB Certificate (Worldwide)
  - TUV-GS (Europe)
  - NOM (Mexico)
  - SABS (South Africa)
  - Hong Kong
  - PST (Singapore)
  - IRAM (Argentina)
- EMC and Safety
  - CCC (China)
  - GOST (Russia)
  - SASO (Saudi Arabia)
- Other
  - ENERGY STAR (U.S.)
  - PC Green Label (Japan)
  - ISO 9241-3 capable (full compliance requires a certified monitor and fonts)

ThinkCentre A55 systems may carry other certifications that are not listed above.

Operating environment

- Relative humidity: 8% to 80%

- Heat output (approximate):
  - Minimum: 206 Btu/hr / 60 W
  - Maximum: 549 Btu/hr / 160 W

Software requirements: ThinkCentre A55 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 XP Professional

Tested software:

- Microsoft Windows XP Home Edition
- Microsoft Windows 2000 Professional
- Microsoft Windows Vista Home Premium 32
- 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.

Desktop Management Interface (DMI): The ThinkCentre systems are DMI V2.0-compliant.

Limitations

- If all I/O card slots are populated, average wattage of the I/O cards should be limited to 7.5 watts. Populating all I/O card slots with options that have an average load of greater than 7.5 watts will cause recommended thermal limits in the I/O card area to be exceeded.
- ThinkCentre A55 systems with gigabit integrated Ethernet are considered as Class A digital devices.

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.

Packaging: ThinkCentre A55 systems: System unit carton

- System unit
- Hardware assembly package
  - Power cord
  - Keyboard
  - Mouse
  - Publications
  - Floor stand (selected models)

Security, auditability, and control

The ThinkCentre A55 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)
  - No keylock
- Power-on password
- Administrator password
- Boot sequence control
- Boot without keyboard, mouse, diskette
- USB/Ethernet/serial/parallel/SATA/EIDE/diskette enable or disable
- Disk, removable, and network device password
- Diskette write protect
- Front USB port disablement

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/B600

Warranty period for machine type 9636

- System hardware — One year 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 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.

Educational allowance: None

Prices

```
                                            Machine
                                    Part    type/    List
Description                         number  model    price(5)

ThinkCentre A55 (2 x 3 small form factor)

Core 2 Duo E4500

2.2 GHz/800 MHz, 2 MB cache,        96362NU 9636-2NU $629
 512 MB memory(6), 80 GB HDD(7),
 Windows XP-Pro(8), 16x Max DVD-ROM(9),
 Gigabit Ethernet adapter,
 Integrated Intel(R) Graphics Media
 Accelerator 3000, Integrated audio,
 floor stand, USB Preferred Pro
 full-size keyboard, Optical mouse,
 Internal mono speaker

2.2 GHz/800 MHz, 2 MB cache,        96362PU 9636-2PU  699
 1024 MB memory, 160 GB HDD,
 Windows XP-Pro, DVD Recordable,
 Gigabit Ethernet adapter,
 Integrated Intel Graphics
 Media Accelerator 3000,
 Integrated audio, floor stand,
 USB Preferred Pro full-size keyboard,
 Optical mouse, Internal mono speaker

 (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) CD and DVD drives list maximum rates; rates are variable and
     are often less than the maximum possible.
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ThinkPlus services for warranty and maintenance charges

The offerings below apply to models 2NU and 2PU of machine type 9636.

```
                                    ThinkPlus
Description                         part number

2 year IOR 9 x 5 NBD                41C9187
3 year IOR 9 x 5 NBD                41C9188
1 year IOR 9 x 5                    41C9189
 4-hour average response
2 year IOR 9 x 5                    41C9190
 4-hour average response
3 year IOR  9 x 5                   41C9191
 4-hour average response

IOR = On-site repair
NBD = Next business day
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ThinkPlus MA for post warranty

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                                       ThinkPlus
Description                            part number

1-year IOR 9 x 5 NBD                   41C9288
1-year IOR 9 x 5 x 4                   41C9289
2-year IOR 9 x 5 NBD                   41C9290
2-year IOR 9 x 5 x 4                   41C9291
```

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

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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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