New TopSeller ThinkStation S20 models with Intel high-speed processor technology are the ultimate performance workstations

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At a glance

Benefits of the ThinkStation® S20 systems include:

- Microsoft® Windows® Vista Business 64 preloaded on select models
- Microsoft Windows XP Professional 32 preloaded on select models
- Outstanding performance and excellent room for growth:
  - High-performance Intel® processors
  - ECC DDR 3 SDRAM system memory standard
  - Outstanding high-performance video graphics adapters in all configurations
  - Serial ATA and SAS device support
- Innovative 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 ThinkStation S20 series offers a blend of essential features and technology including:

- Microsoft Windows Vista Business 64 preloaded on select models
- Microsoft Windows XP Professional 32 preloaded on select models
• Enhanced ECC DDR3 SDRAM system memory
• Integrated Gigabit Ethernet
• High-performance Intel processors
• High-performance video graphics adapters
• Numerous data protection tools

Easy to use and manage

• Systems include a fully integrated recovery environment that works when your operating system is not working
• Innovative mechanical design for easy upgrades and service support
• 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 packages 1 (applications, device drivers, BIOS flashes, and other updates)
• Easy-to-service chassis design helps maximizes uptime
• Easy-to-access high-speed USB 2.0 ports

Optimized for connectivity
Integrated Gigabit Ethernet

Service and support

Worldwide service and support 2

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

http://www.lenovo.com

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

2 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 date

March 2009

Description

New ThinkStation S20 systems offer industry-leading technologies and excellent management capabilities.

Industry-leading technologies

• New ThinkStation tower models with five slots and six bays
• Intel high-performance processor technology
Lenovo Europe, Middle East, and Africa
Hardware Announcement ZG09-0007

- ECC DDR 3 SDRAM system memory standard with 12 GB of maximum system memory supported
- Integrated Gigabit Ethernet
- 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
- McAfee VirusScan Plus with 30 days of virus definitions

**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**

- ECC DDR3 SDRAM system memory standard
- Integrated Gigabit Ethernet
- DVD Recordable
- Standard audio onboard
- Serial ATA HDD and SAS HDD support
- Ten USB 2.0 ports - two front and eight rear for easy connection of peripherals
- Mouse, keyboard, and VGA monitor ports
- Line-out, line-in, microphone audio jack-in, and headphone-out ports

**(5 x 6) Tower models**

- Two full-length, full-height, PCI Express x16
- One full-length, full-height, PCI Express x4
- One full-length, full-height, PCI
- One half-length, full-height, PCI
- Three 3.5-inch slim internal hidden bay (HDD)
- One 3.5-inch slim external accessible bay (FDD or card reader)
- Two 5.25-inch external half-high bay (optical drives)

**Other software tools**

The ThinkStation S20 includes a unique set of software tools to help you manage your desktop computing assets.

**Backup copies of your software**

The ThinkStation S20 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 ThinkStation S20 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

ThinkStation S20 (5 x 6 Tower Form Factor)

<table>
<thead>
<tr>
<th>Mach. Type</th>
<th>Model</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel Dual Core Xeon® E5502</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.86GHz, 4MB cache, 2048MB memory(2 DIMMs), 250GB HDD(3), Windows XP Professional 32 with Windows Vista Business 32 RDVD(4), Premium label, DVD Recordable, 256MB nvidia Quadro FX-380 Graphics Adapter</td>
<td>4105</td>
<td>27G SNC27XX</td>
</tr>
<tr>
<td>1.86GHz, 4MB cache, 4096MB memory(2 DIMMs), 250GB HDD, Windows XP Professional 32 with Windows Vista Business 32 RDVD, Premium label, DVD Recordable, No Graphics Adapter</td>
<td>4105</td>
<td>28G SNC28XX</td>
</tr>
<tr>
<td>Intel Quad Core Xeon E5506</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.13GHz, 4MB cache, 4096MB memory(2 DIMMs), 500GB HDD, Windows XP Professional 32 with Windows Vista Business 32 RDVD, Premium label, DVD Recordable, 512MB nvidia Quadro FX-580 Graphics Adapter</td>
<td>4105</td>
<td>24G SNC24XX</td>
</tr>
<tr>
<td>2.13GHz, 4MB cache, 4096MB memory(2 DIMMs), 150GB HDD, Windows Vista Business 64, DVD Recordable, No Graphics Adapter, Laser mouse</td>
<td>4105</td>
<td>29G SNC29XX</td>
</tr>
<tr>
<td>Intel Quad Core Xeon W3520</td>
<td></td>
<td></td>
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<tr>
<td>2.66GHz, 8MB cache, 4096MB memory(2 DIMMs), 250GB HDD, Windows XP Professional 32 with Windows Vista Business 32 RDVD, Premium label DVD Recordable, No Graphics Adapter</td>
<td>4105</td>
<td>23G SNC23XX</td>
</tr>
<tr>
<td>2.66GHz, 8MB cache, 4096MB memory(2 DIMMs), 150GB HDD, Windows Vista Business 64, DVD Recordable, 512MB ATI FirePro V5700 Graphics Adapter</td>
<td>4105</td>
<td>26G SNC26XX</td>
</tr>
<tr>
<td>Intel Quad Core Xeon E5530</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.40GHz, 8MB cache, 4096MB memory(2 DIMMs), 500GB HDD, Windows XP Professional 64, DVD Recordable, No Graphics Adapter Laser mouse</td>
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<td>31G SNC31XX</td>
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</tbody>
</table>
Technical information

Specified operating environment

HDD specifications

<table>
<thead>
<tr>
<th>Interface</th>
<th>Formatted capacity(3)</th>
<th>250 GB</th>
<th>500 GB</th>
<th>147 GB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serial ATA</td>
<td>7200 rpm</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Serial ATA</td>
<td>7200 rpm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SAS</td>
<td>15000 rpm</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3 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: 175 mm (6.9 in)
- Height: 478 mm (18.8 in)
- Depth: 460 mm (18.1 in)
- Weight: 16.33 kg (36 lbs) (maximum configuration)

Electrical power specifications

- Low range:
  - Minimum: 100 V ac
  - Maximum: 127 V ac
- High range:
  - Minimum: 200 V ac
  - Maximum: 240 V ac
- Input frequency range: 50/60 Hz
- Auto-sensing voltage switch

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 at 3000 ft: 10 to 35° C (50 to 95 F)
- System on at 3000 ft - 7000 ft: 10 to 32° C (50 to 89.6° F)
- System off: 10 to 43° C (50 to 110° F)
**Noise level specifications**

Declared acoustical noise emissions

- Declared sound-power levels for SATA hard drive systems:
  - Idle: 4.3 bels
  - Bystander: 32 dB
  - Operator: 35 dB
  - Compute: 4.6 bels
  - Bystander: 35 dB
  - Operator: 37 dB

- Declared sound-power levels for SAS hard drive systems:
  - Idle: 4.8 bels
  - Bystander: 36 dB
  - Operator: 39 dB
  - Compute: 5.0 bels
  - Bystander: 39 dB
  - Operator: 40 dB

**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 ThinkStation S20 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**

ThinkStation S20 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**

ThinkStation S20 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)
– Hong Kong
– PST (Singapore)
– IRAM (Argentina)

• EMC and Safety
  – CCC (China)
  – GOST (Russia)
  – SASO (Saudi Arabia)

• Other
  – ENERGY STAR
  – PC Green Label (Japan)
  – ISO 9241-3 capable (full compliance requires a certified monitor and fonts)

ThinkStation S20 systems may carry other certifications that are not listed above.

Operating environment

ThinkStation S20 tower form factor systems

• Relative humidity
  – System on: 10% to 80%
  – System off: 10% to 90%
  – Transit: 10% to 90%
  – Max altitude: 7000 ft (2133.6 m)

Operating system support

ThinkStation S20 systems are either preloaded or tested for compatibility with the following operating systems. Lenovo will provide problem determination for this operating system and device driver support for the hardware installed from the factory.

Preloaded:

• Microsoft Windows Vista Business 64 (select models)
• Microsoft Windows XP Professional 32 (select models)

Tested software:

• Microsoft Windows Vista Business 32 and 64
• Microsoft Windows XP Professional 32
• 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.

**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.

**Packaging**
ThinkStation S20 systems:

System unit carton

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

**Security, auditability, and control**
The ThinkStation S20 systems support the following security features:

- User and administrator passwords for BIOS access
- Support for the addition of an integrated cable lock (Kensington lock)
- Startup sequence control
- Startup without keyboard, mouse, diskette drive
- Unattended start mode
- Diskette and hard disk I/O control
• Serial and parallel port I/O control
• Security profile by device

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

TopSeller Programme

The announced models are only available as part of the Lenovo TopSeller® programme. For full details of the terms and conditions please refer to the TopSeller Programme Terms and Conditions.

Note: Copies of the TopSeller Programme Terms and Conditions are available locally or from the Lenovo Channel Programme Manager

In summary:

Orders for TopSeller products must be placed on an order specifically identified as ‘TopSeller’ and should not contain any other (non-TopSeller) product. Orders may only be placed for currently eligible TopSeller products (Not all products will be eligible for TopSeller at the same time.)

Orders must be placed for immediate delivery.

Lenovo will undertake to deliver product purchased under the terms of the TopSeller programme within a specified number of days. For full details of the delivery terms for your country please refer to the TopSeller Programme Terms and Conditions.

Products purchased under this programme are eligible for 15 days price protection from the date of shipment. For full details please refer to the programme Terms and Conditions.

There is no accommodation for the return of any products ordered under the terms of this programme. Products purchased under the terms of this offering are not available to be sold as part of a Special Bid. Orders must be placed in quantities of:

12 X ThinkCentre® S20 units

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

Warranty period for machine type 4105

• System hardware - Three years on site on parts and labor NBD

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 Providers normal service area, contact your local Service Provider.
representative or your reseller for country and location specific information. Service Provider contact information can be found at

http://www.lenovo.com/support

Customer Replaceable Unit (CRU) Service

Under CRU Service, your Service Provider will ship CRUs to you for installation by you. CRU information and replacement instructions are shipped with your product and are available from Lenovo at any time upon request. CRUs that are easily installed by you are called Self-service CRUs, while Optional-service CRUs may require some technical skill and tools. Installation of Self-service CRUs is your responsibility. You may request that a Service Provider install Optional-service CRUs under one of the other types of warranty service designated for your product. An optional service offering may be available from Lenovo to have Lenovo install Self-service CRUs for you. You may find a list of CRUs and their designation in the publication that ships with your product or visit

http://www.lenovo.com/CRUs

The requirement to return a defective CRU, if any, will be specified in the materials shipped with a replacement CRU. When return is required, return instructions, a prepaid return shipping label, and a container will be included with the replacement CRU and you may be charged for the replacement CRU if your Service Provider does not receive the defective CRU within thirty (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 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 of the license agreements that are shipped with the system.

ThinkPlus Services

Warranty and maintenance options

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

Installation Services

The announced products may be eligible for ThinkPlus Installation Services, convenient prepackaged offerings for installation services.
LENNOVO THINKPLUS WARRANTY UPGRADES

The announced Lenovo ThinkStation machine types are also eligible for Lenovo ThinkPlus warranty upgrades. 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 PAN-EMEA

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

<table>
<thead>
<tr>
<th>Lenovo ThinkPlus Offering</th>
<th>Upgrade</th>
<th>Ordering</th>
<th>P/N</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>L No</td>
<td>Type</td>
<td></td>
</tr>
</tbody>
</table>

For 4105 with 3 Yr On-Site Service NBD* Base Warranty:
(Low End)

4 Yr On-Site Service NBD* L642 ThinkPlus 46D4454
5 Yr On-Site Service NBD* L643 ThinkPlus 46D4455

Notes
* NBD = Next Business Day Response Target

ANNOUNCEMENT COUNTRIES FOR THE INCLUDED LENOVO THINKPLUS L.No PACS.

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<tr>
<td></td>
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</tr>
</tbody>
</table>

For 4105 with 3 Yr On-Site Service NBD* Base Warranty:
(Low End)

4 Yr On-Site Service NBD* L642 ThinkPlus 46D4454
5 Yr On-Site Service NBD* L643 ThinkPlus 46D4455

Notes
* NBD = Next Business Day Response Target

ANNOUNCEMENT COUNTRIES FOR THE INCLUDED LENOVO THINKPLUS L.No PACS.

Announcement is restricted to the following countries:

Austria           Belgium        Bulgaria*        Croatia
Czech Republic    Denmark        Finland          France**
Germany          Greece         Hungary          Ireland  
Israel           Italy          Luxemburg        Netherlands  
Norway           Poland         Portugal         Romania  
Russia***         Slovakia       Slovenia****     South Africa  
Spain            Sweden         Switzerland      Turkey  
UK*****  

* Bulgaria is limited to the capital Sofia for On-Site Service.
** Excludes DOM/TOM and all other overseas territories and dependencies.
*** Russia is limited to 100 km of Moscow for Service provision.
**** Slovenia is limited to 50 Km of Ljubljana for On-Site Service.
***** Mainland UK only for On-Site Service.

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 and licensed machine code.

Prices
For all local charges, contact your sales representative.

ThinkPlus Services for warranty and maintenance
The following offerings apply to all models of machine type 4105.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part number</th>
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<tbody>
<tr>
<td>4-Year On-site 9 x 5 NBD Upgrade</td>
<td>43R8983</td>
</tr>
<tr>
<td>5-Year On-site 9 x 5 NBD Upgrade</td>
<td>43R8987</td>
</tr>
</tbody>
</table>

IBM Global Financing
IBM® Global Financing offers competitive financing to credit-qualified customers to assist them in acquiring IT solutions. Offerings include financing for IT acquisition, including hardware, software, and services, from both IBM and other manufacturers or vendors. Offerings (for all customer segments: small, medium, and large enterprise), rates, terms, and availability can vary by country. Contact your local IBM Global Financing organization or visit

http://www.ibm.com/financing
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Announcement countries

All European, Middle Eastern, and African Countries.

Additional external attachment

ThinkAccessories

For the latest information on options available for ThinkStation S20 systems, visit

http://www.lenovo.com/options

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System Migration Assistant is a trademark of Lenovo Corporation in the United States, other countries, or both.

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Corrections

(Corrected on April 20, 2009)

Models announced with Intel W3520 processors have been updated to 2.66 GHz in the descriptions under the Product number section.