

# ENGINEERED FOR HIGH PERFORMANCE AT AN AFFORDABLE PRICE

LENOVO® THINKSERVER™ TD200

## WORKHORSE PERFORMANCE

TD200 tower servers are equipped with the latest industry technology features and have virtually limitless expansion possibilities.

- Latest industry technology using Intel® Xeon® 5500 series processor
- 96GB maximum memory
- High storage flexibility with HS and SS designs allowing up to 4TB of storage
- 6 Gen 2 PCI slots
- 7 USB ports
- IMM Premium standard on select models

## ENTERPRISE-CLASS FEATURES

Lenovo's TD200 tower server provides maximum flexibility and scalability to suit your growing business.

### THOUGHTFULLY DESIGNED SOFTWARE

- Integrated IMM with around-the-clock management and remote access
- IMM Premium with remote presence and virtual media standard on select models gives you full control of your ThinkServer from anywhere and anytime
- EasyStartup with built-in RAID integration and an expanded list of supported operating systems
- EasyManage with streamlined installation, improved Lenovo branding, enhanced usability, and Windows Server® 2008 32-bit core console

### ENGINEERED FOR MAXIMUM UPTIME

- Built-in Predictive Failure Analysis warns you about potential problems before they occur
- Integrated RAID with encryption option gives you peace of mind that your data is protected

### LOW COST OF OWNERSHIP

- Lenovo's suite of easy tools makes setting up and managing your server faster and easier than ever.
- Virtualization ready and green features allow you to save on your power bill without sacrificing performance
- Tool-less serviceability makes replacing and upgrading your ThinkServer a snap

## VIRTUALIZATION READY

Lenovo's new ThinkServer provides an ideal virtualization platform. Virtualization technologies reduce server footprint and total cost of ownership by consolidating legacy servers on one platform. The TD200 makes the transition to a virtual environment seamless by:

- Providing an onboard connector for embedded hypervisor standard with every TD200
- Supporting industry leading virtualization solutions from Microsoft®, Novell®, VMWare®, and Red Hat®
- Combining Intel® virtualization technologies with up to 12 Advanced ECC memory DIMMs, and dual TOE enabled gigabit Ethernet ports

## TOP REASONS TO OWN

- ◆ HIGHLY SCALABLE
- ◆ LIMITLESS CUSTOMIZATION
- ◆ VIRTUALIZATION READY
- ◆ GREEN ENERGY SAVINGS



The brand new ThinkServer TD200 tower server is the smart choice for small and mid-sized businesses looking for a server that can be customized in virtually limitless ways. Combined with easy-to-use software and world-class service, the TD200 provides small and mid-sized businesses the flexibility to handle any computing challenge.

## GREEN ENERGY SAVINGS

Lenovo is an active participant in the World Standards Organizations, including ENERGY STAR® and Climate Savers. In addition, all ThinkServers are RoHS certified.

To help you further reduce your power usage footprint, ThinkServers provide several low-power options including low-wattage processors, low-power memory options and small form-factor hard drives.

Our suite of energy saving options gives you the ability to drive down your energy costs without sacrificing performance.

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ThinkServer™ Ideas

- Easy to Use
- Easy to Install
- Easy to Expand
- Easy to Maintain

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NEW WORLD. NEW THINKING.™

# SCALABLE, FLEXIBLE, ALL-IN-ONE TOWER COMPUTING

## LENOVO® THINKSERVER™ TD200

In today's busy corporate environment, businesses are constantly looking for ways to customize their servers to meet their computing challenges without purchasing additional hardware. Lenovo had this need in mind when it created the new TD200 tower server. Based on the latest Intel® Xeon® technology with a suite of intuitive software and thoughtfully designed services, our new offering is targeted at customers who need:

- A highly customizable tower server that can be customized to power virtually any application
- High-performance and large-storage capacity (up to 4.0TB of data)
- Built-in data protection standard on every model ensuring no data loss in the event of hard drive failure
- Internal RDX tape solutions offer simplified data backup
- Advanced management and full remote control capabilities for health monitoring and control of your server from anywhere and anytime

### EASIER-TO-USE SERVER MANAGEMENT

The ThinkServer TD200 comes standard with Integrated Management Module (IMM) along with a suite of software tools making it easy to install and manage your server. Our latest software tools feature several usability enhancements.

#### INTEGRATED MANAGEMENT MODULE (IMM)

- Gives you complete around-the-clock management and remote access from an easy Web interface
- Perform server management and health-check function remotely, and independent of the status of the server
- IMM Premium (standard on select models)
  - ◆ Connect your local optical, USB, or disk image to the server remotely, through Virtual Media
  - ◆ Operating system failure screen capture and display through the Web interface
  - ◆ Full remote control (video, mouse, and keyboard) of your server from any location

#### EASY STARTUP

- Complete hardware provisioning in a wizard format takes the guesswork out of the server installation
- Built-in RAID configuration ensures your data is protected from the beginning
- An enhanced list of unattended operating system installs, ensure your deployments are quick and easy
- Replication configuration allows rapid deployment and configuration of multiple servers

#### EASY MANAGE

- Complete multi-server management accessible from a single console checks the health of your server easily, from anywhere and anytime
- Built-in right-click menu option takes you directly to IMM
- Set up custom alerts—so you are always watching exactly what is important to you



### FIRST-CLASS SERVICE AND SUPPORT

Lenovo provides complete after-sale support with a complementary 90-day trial of ThinkPlus™ Priority Support. Delivered through our reliable and extensive network of business partners, this offer provides peace of mind for customers during the most critical time of server ownership.

- ThinkPlus Productivity provides onsite hardware installation, online training, and tools to improve server performance
- ThinkPlus Priority Support offers expert IT support in a consolidated support package
- ThinkPlus Warranty provides a base warranty support



# LENOVO® THINKSERVER™ TD200 SPECIFICATIONS AND SERVICES

## Warranty

- 3/3 Onsite

## Form Factor

- 2P 5U Tower

## Core Chipset

- Intel® 5520 chipset

## Processor

- Intel® Xeon® 5500 series processor

## Model Name

- TD200

## Memory

- 1GB, 2GB, or 4GB Advanced ECC Memory 1333MHz DDR3 RDIMM
- 12 DIMM slots up to 96GB Maximum Memory

## Storage

- RAID 0, 1, 1E, or RAID 0, 1, 1E, 5, 6, 10, 50, 60
- 4 x 3.5" SS SATA HDD (or)
- 4 x 3.5" HS SAS/SATA HDD (or)
- 8 x 2.5" HS SAS/SATA HDD

## Media Bays

- 3 Media Bays
  - 1 x Multi-burner DVD Drive
  - 2 x Optical or tape expansion

## Management

- Built-in IMM standard
- Easy Manage
- IMM Premium (select models)
- Onboard virtualization connector

## PCI Slots

- 6 PCI Gen 2 Slots
  - (Express) 1 x 8 half-length, full-height
  - (Express) 1 x 16 (x4 elec) full-length, full-height
  - (Express) 2 x 8 (x4 elec) full-length, full-height
  - (Express) 1 x 8 full-length, full-height
  - 1 x 32 half-length, full-height

## Ports

- 7 USB ports (2 front, 4 rear, 1 internal)
- 1 video port (rear)
- Integrated Dual Gigabit Ethernet with TCP/IP Offload Engine (TOE)
- Dedicated IMM port

## Diagnostics

- LED panel

## Cooling

- Hot-Swap fans

## Power Supply

- 670W Fixed

## Software

- Windows Server® 2008 (Standard and Enterprise)
- Windows® Small Business Server 2008 (Premium and Standard)
- Windows® Essential Business Server 2008 (Premium and Standard)
- Windows® Small Business Server 2003 (Premium and Standard)
- Novell® SUSE® Linux® Enterprise Server (SLES) 10 32/64 bit (Novell® is Lenovo's Preferred Linux® Provider for ThinkServer)

## Virtualization Solution

- Windows Server® 2008 with Hyper-V™ Standard and Enterprise
- Novell® SUSE® Linux® Enterprise Server (SLES) 10 with Xen Hypervisor
- VMware® ESX and ESXi 3.5
- Red Hat® Enterprise Linux® 5.x



## A-La-Carte ThinkPlus™ Services

### Online Data Backup

Provides a secure online location to back up your valuable business data. 25GB, 50GB, and 100GB options

### Onsite Hardware Installation

Provides onsite installation of hardware by trained technicians

### Online Training

- Learn the basics on components, diagnostics, troubleshooting, and managing your server.
- Available in English, French, Spanish, German, Italian, Japanese, and Korean.

## ThinkPlus™ Bundled Service Offerings\*

ThinkPlus™ Warranty Base Warranty Support	ThinkPlus™ Priority Support Consolidated Support Package	ThinkPlus™ Productivity No Hassle Up-and-Running Bundle
Warranty Extension	24x7 Hardware and Software Phone Support	Onsite Hardware Installation
Optional 4-Hour Onsite Service Response (9x5)	Priority Routing	Online Training
	Advanced Level Technicians	Priority Support
	Software Installation and Usage Support (Phone-Based)	
	Next-Business Day (9x5) Onsite Service	
	Optional 4-Hour (24x7) Onsite Service Response	
	Optional Hardware Drive Retention	



ThinkServer™ Ideas

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# LENOVO® THINKSERVER™ TD200 ACCESSORIES AND OPTIONS

DDR3 RDIMM Memory		
• Faster Performance	67Y0014	ThinkServer 1GB PC3-10600 DDR3 1333 MHz RDIMM
• Low Power Consumption	67Y0015	ThinkServer 2GB PC3-10600 DDR3 1333 MHz RDIMM*
• Advanced ECC	67Y0016	ThinkServer 4GB PC3-10600 DDR3 1333 MHz RDIMM*
• Memory Mirroring		* Advanced ECC
Intel® Xeon® Processors		
• Nehalem Architecture	67Y0008	Intel® Xeon® E5502 (1.86GHz) Option Kit
• Simultaneous Multi-Threading	67Y0009	Intel® Xeon® E5504 (2.00GHz) Option Kit
• Integrated Memory Controller	67Y0011	Intel® Xeon® E5520 (2.26GHz) Option Kit
• Intel® QuickPath	67Y0102	Intel® Xeon® E5530 Processor (2.4MHz) Option Kit
	67Y0096	Intel® Xeon® E5540 Processor (2.53MHz) Option Kit
3.5" SATA Hard Drives		
• Easy Simple-Swap carriage	45J6196	ThinkServer 250GB Simple-Swap Hard Drive
• High Capacity Offering	45J6197	ThinkServer 500GB Simple-Swap Hard Drive
	45J6198	ThinkServer 750GB Simple-Swap Hard Drive
	45J6201	ThinkServer 250GB Hot-Swap Hard Drive
	45J6202	ThinkServer 500GB Hot-Swap Hard Drive
	45J6203	ThinkServer 750GB Hot-Swap Hard Drive
	45J6204	ThinkServer 1TB Hot-Swap Hard Drive
3.5" SAS Hard Drives		
• High Availability	45J6211	ThinkServer 146GB 15K Hot-Swap Hard Drive
• 3.0 Gbps SATA Interface	45J6212	ThinkServer 300GB 15K Hot-Swap Hard Drive
• Performance (15K)	67Y0119	ThinkServer 450GB 15K Hot-Swap Hard Drive
2.5" SAS and SATA HDD		
• Slim Form Factor 2.5"	<b>SAS</b>	
• 6.0 GB/s SAS Interface	67Y0115	ThinkServer 73GB 6.0 GB/s 15K 2.5" SAS SFF HS
• Low Power Consumption	67Y0116	ThinkServer 146GB 6.0 GB/s 10K 2.5" SAS SFF HS
• Performance (10K/15K)	67Y0117	ThinkServer 146GB 6.0 GB/s 15K 2.5" SAS SFF HS
• Hot-Swap Carriages	67Y0118	ThinkServer 300GB 6.0 GB/s 10K 2.5" SAS SFF HS
	<b>SATA</b>	
	67Y0002	ThinkServer 300GB 3.0 GB/s 10K 2.5" SATA SFF HS

ThinkServer Accessories		
<ul style="list-style-type: none"> <li>• Keyboards</li> <li>• Mouse</li> <li>• Monitors</li> </ul>	Keyboard/Mice	
	31P9490	ThinkPad® Travel UltraNav USB Keyboard – US English
	73P5220	Lenovo Preferred Pro Keyboard USB – US English
	06P4069	Lenovo Optical Mouse
	Monitors	
	9165AC6	Lenovo TV L151 Monitor: 15" Analog TFT
	9227AD1	Lenovo TV L171 Monitor: 17" Analog TFT
	4431HB2	Lenovo TV L193p LCD Monitor: 19" Analog/Digital
ThinkServer Ready Options – 3rd party options for a complete solution		
<ul style="list-style-type: none"> <li>• ThinkServer Ready: Gigabit Ethernet I/O</li> </ul>	39Y6066	NetXtreme® II 1000 Express Single Port Ethernet Adapter
	42C1780	NetXtreme® II BaseT Express Dual Port Ethernet Adapter
	39Y6126	PRO/1000 PT Dual Port Server Adapter by Intel®
	39Y6136	PRO/1000 PT Quad Port Server Adapter by Intel®
<ul style="list-style-type: none"> <li>• ThinkServer Ready: Tape Backup</li> </ul>	43W8480	IBM® DDS Generation 5 SATA Tape Drive
<ul style="list-style-type: none"> <li>• ThinkServer Ready: RAID and HDD Controller</li> </ul>	43W4296	IBM® ServeRAID MR10i SAS/SATA Controller
	44E8826	IBM® ServeRAID MR10i Li-Ion Battery
	44E8825	IBM® ServeRAID MR10M SAS/SATA with Remote Battery Kit
	44E8689	IBM® ServeRAID BR10i SAS/SATA Controller
	44E8695	IBM® ServeRAID MR10i VULT SAS/SATA Controller
	44E8700	IBM® ServeRAID 3GB SAS HBA Controller v2
<ul style="list-style-type: none"> <li>• ThinkServer Ready: Systems Management</li> </ul>	46C7527	IBM® Virtual Media Key
<ul style="list-style-type: none"> <li>• ThinkServer Ready: HBA Controller Options</li> </ul>	8GBps Interface	
	42D0485	Emulex® 8GB FC Single-Port PCI HBA
	42D0484	Emulex® 8GB FC Dual-Port PCI HBA
	42D0501	QLogic® 8GB FC Single-Port PCI HBA
	42D0510	QLogic® 8GB FC Dual-Port PCI HBA
	46M6049	Brocade® 8GB FC Single-Port PCI HBA
	46M6050	Brocade® 8GB FC Dual-Port PCI HBA
	4GBps Interface	
	39R6525	QLogic® 4GB FC Single-Port PCI HBA
	39R6527	QLogic® 4GB FC Dual-Port PCI HBA
42C2069	Emulex® 4GBps FC Single-Port PCI HBA	
42C2071	Emulex® 4GBps FC Dual-Port PCI HBA	
<ul style="list-style-type: none"> <li>• ThinkServer Ready: Uninterruptible Power Supplies</li> </ul>	UPS	
	2130R3X	UPS 1000 TLV (US)
	2130R5X	UPS 1500 TLV (US)
	21301RX	UPS 3000 LV (US)

 [www.lenovo.com/thinkserver](http://www.lenovo.com/thinkserver)

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