

INTRODUCING EFFICIENT PERFORMANCE IN A SMALL FOOTPRINT

LENOVO® THINKSERVER™ RD210



TOP REASONS TO OWN

- ◆ HIGH PERFORMANCE IN 1U FORM-FACTOR
- ◆ ENTERPRISE CLASS FEATURES
- ◆ VIRTUALIZATION READY
- ◆ GREEN ENERGY SAVINGS

The brand new ThinkServer RD210 Rack Server provides first-class hardware with easier software tools and world-class services. Combining high performance in a small factor, the RD210 is engineered to deliver the ultimate server experience to small and mid-size businesses.

EFFICIENT PERFORMANCE IN A SMALL FOOTPRINT

Every RD210 gives customers access to the latest industry technology in a dense 1U rack design.

- Latest industry technology using Intel® Xeon® 5500 series processors
- Dual Processor power in a 1U footprint
- Expandable memory up to 16 slots and 6 HS 2.5" SAS/SATA HDD bays

ENTERPRISE CLASS FEATURES

Lenovo's new RD210 is the smart choice for businesses looking for maximum performance and reliability combined with low cost of ownership.

THOUGHTFULLY DESIGNED

- Tool-less serviceability makes managing your server quick and painless
- Easy LED lets you monitor your server without opening it
- Integrated Management Module provides always-on management

ENGINEERED FOR MAXIMUM UPTIME

- Built in Predictive Failure Analysis warns you about potential problems before they occur
- Every RD210 comes with integrated RAID giving you peace of mind that your data is protected
- Redundant power and cooling ensures that your servers stay up and running even if a component should have a problem

LOW COST OF OWNERSHIP

- Lenovo's suite of Easy tools makes setting up and managing your server easier than ever
- Virtualization Ready and Green features allows you to save on your power bill without sacrificing performance

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 RD210 makes the transition to a virtual environment seamless by:

- Providing an onboard connector for embedded hypervisor standard with every RD210
- Supporting industry leading virtualization solutions from Microsoft®, Novell®, VMWare®, and Red Hat®.
- Combining Intel® virtualization technologies (VT-x, VT-d) with up to 16 Advanced-ECC memory DIMMs, and up to 4 TOE enabled gigabit Ethernet ports

GREEN ENERGY SAVINGS

Lenovo's new ThinkServer is the greenest yet with Energy Star® compliant power supplies. In addition, all ThinkServers are RoHS certified.

ThinkServers provide several options to reduce energy consumption — including low-wattage processors, low-power memory options, and zoned cooling.



ThinkServer™ Ideas

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

lenovo®

NEW WORLD. NEW THINKING.™

THOUGHTFULLY DESIGNED FOR SPACE CONSCIOUS BUSINESSES ALLOWING YOU TO FOCUS ON YOUR GROWING BUSINESS

LENOVO® THINKSERVER™ RD210



In today's busy corporate environment, IT departments are looking for ways to make installing and managing their server environments efficient and cost effective without sacrificing performance. Lenovo had these needs in mind when it created the new RD210. Based on the latest Intel® Xeon® processors with a suite of intuitive software and thoughtfully designed services, our new offering is targeted at customers who need:

- An efficient platform to run high performance mission critical applications including database, email, virtualization, and line of business
- High performance computing in a durable, slim-form factor featuring the latest industry technology
- Built-in data protection standard on every model ensuring that hard drive failure doesn't result in data loss
- Integrated advanced management and remote administration capabilities provide health monitoring and control of your server from anywhere, anytime

EASIER TO USE SERVER MANAGEMENT

The ThinkServer RD210 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 MEMORY MODULE (IMM)

- Gives you complete around-the-clock management and remote access from an easy web interface
- IMM Premium (available on select models)
 - Perform server management and health check functions remotely independent of the status of the server
 - Remote media, which enables mounting of DVD drive, USB flash drive, or disk image to a server

EASY STARTUP

- Complete hardware provisioning in a wizard format takes the guesswork out of driver installation
- Built in RAID configuration ensures your data is protected from the start
- An enhanced list of operating system support ensures you always have access to the latest software

EASY MANAGE

- Complete multi-server management accessible from a single console making it easy to check the health of your servers from anywhere
- Built in right-click menu option takes you right to IMM
- Setup custom alerts so you're always watching exactly what's 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 customers with peace of mind 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 base warranty support



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LENOVO® THINKSERVER™ RD210 SPECIFICATIONS AND SERVICES



Model Name

- RD210

Warranty

- 1/1 and 3/3 Onsite

Form Factor

- 1U 2P Rack

Core Chipset

- Intel® 5520 chipset

Processor

- Intel® Xeon® 5500 Series Processors

Memory

- 1GB ECC Memory DDR3 R-DIMM
- 2GB or 4GB Advanced ECC Memory DDR3 R-DIMM
- 16 Memory Slots up to 128GB Max Memory

Storage

- LSI BR10i RAID (0,1) or LSI MR10i RAID (0,1,5,6,10,50,60)
- 6 x 2.5" HS SAS/SATA
- Multi-Burner DVD Drive

Connectivity

- Integrated Dual Gigabit Ethernet with TCIP/IP Offload Engine (TOE)
(Two additional ports in select models)

Management

- Built in IMM
- EasyManage
- Optional IMM Premium
- Onboard virtualization connector

PCI Slots

- PCIe Gen 2 slots
 - 1 x 16 full-height, half-length
 - 1 x 16 low profile

Ports

- 2 video ports (1 front, 1 rear)
- 5 USB ports (2 front, 2 rear, 1 internal)

Diagnostics

- Easy LED Panel

Cooling

- Hot-Swap Redundant fans

Power Supply

- 1x or 2x 675W Redundant Power Supply

Virtualization Solutions

- 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

Mechanical

- Width: 443.6 mm (17.4 in)
- Height: 43.0 mm (1.69 in)
- Depth: 686 mm (27.0 in)
- Weight: 15.6 kg (34.5 lbs) (max configuration)

Electrical Power

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

Temperature

- System on: 10 - 35 C
- System off: 10 - 43 C

Noise level

- Idle: 6.8 bels
- Operating: 6.8 bels

Relative humidity

- System on: 8% to 80%
- System off: 8% to 80%

A-La-Carte ThinkPlus™ Services

Online Data Backup

Provides a secure, online location to backup 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

Warranty Extension

Optional 4-Hour Onsite Service Response (9x5)

ThinkPlus™ Productivity

No Hassle Up-and-Running Bundle

Onsite Hardware Installation

Online Training

Priority Support

ThinkPlus™ Priority Support

Consolidated Support Package

24x7 Hardware and Software Phone Support

Priority Routing

Advanced Level Technicians

Software Installation and Usage Support (Phone-Based)

Next-Business Day (9x5) Onsite Service

Optional 4-Hour (24x7) Onsite Service Response

Optional Hardware Drive Retention



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LENOVO® THINKSERVER™ RD210 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® 5500 Series Processors		
• Simultaneous Multi-Threading	67Y0004	Intel® Xeon® E5502 Processor (1.86 GHz) Option Kit
• Integrated Memory Controller	67Y0005	Intel® Xeon® E5506 Processor (2.13GHz) Option Kit
• Intel® QuickPath	67Y0006	Intel® Xeon® E5520 Processor (2.26GHz) Option Kit
	67Y0007	Intel® Xeon® E5504 Processor (2.00GHz) Option Kit
	67Y0096	Intel® Xeon® E5540 Processor (2.53GHz) Option Kit
2.5" SAS and SATA HDDs		
• Slim-Form Factor 2.5"	SAS	
• 6.0 Gb/s SAS Interface		
• Low Power Consumption	67Y0115	ThinkServer 73GB 6.0 Gb/s 15K 2.5" SAS SFF HS
• Performance (10K/15K)	67Y0116	ThinkServer 146GB 6.0 Gb/s 10K 2.5" SAS SFF HS
• Hot-Swap Carriages	67Y0117	ThinkServer 146GB 6.0 Gb/s 15K 2.5" SAS SFF HS
	67Y0118	ThinkServer 300GB 6.0 Gb/s 10K 2.5" SAS SFF HS
	SATA	
		67Y0002

ThinkServer Accessories		
<ul style="list-style-type: none"> • Keyboards • Mouse • Monitors 	Keyboards/Mice	
	31P89xx	USB Keyboard with UltraNav
	73P52xx	Business Black Preferred Pro USB Keyboard
	06P4069	USB Optical Wheel Mouse
	Monitors	
T27ENxx/T27AGxx	Lenovo TV L151 Monitor: 15" Analog TFT	
T43HExx/R43HExx	Lenovo TV L171 Monitor: 17" Analog TFT	
Software Solutions		
<ul style="list-style-type: none"> • Packaged in easy-to-purchase Reseller Option kits which are competitively priced • Windows Server 2008 with built-in, enhanced Web and virtualization capabilities • Novell is Lenovo's Preferred Linux® Provider for ThinkServer 	84978BE	Windows Server® 2008 Standard with 5 CALs
	84978DE	Windows Server® 2008 Enterprise with 25 CALs
	84978EE	Windows® Small Business Server 2008 Standard with 5 CALs
	84978FE	Windows® Small Business Server 2008 Premium with 5 CALs
	84978IE	Windows® Essential Business Server 2008 Standard with 5 CALs
	84978JE	Windows® Essential Business Server 2008 Premium with 5 CALs
	55Y7037	Novell® SUSE® Linux Enterprise Server (SLES) 10 32/64 bit

ThinkServer Ready Options – 3rd party options for a complete solution		
• ThinkServer Ready: Gigabit Ethernet I/O	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®
• ThinkServer Ready: Tape Backup	44E8895	IBM® LTO Half-High Generation 4 SAS Tape Drive
	43W8480	IBM® DDS Generation 5 SATA Tape Drive
	39M5636	IBM® DDS Generation 6 USB Tape Drive
	IBM® RDX External USB Bundles	
	362516X	160GB
	362532X	320GB
	362550X	500GB
	<i>Note: RDX Bundles include the following: Cartridge, Dock, & USB cables</i>	
• ThinkServer Ready: RAID and HDD Controller	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 MR10is VAULT SAS/SATA Controller
44E8700	IBM® ServeRAID 3Gb SAS HBA Controller v2	
• ThinkServer Ready: Systems Management	46C7526	Virtual Media Key

• ThinkServer Ready: HBA Controller Options	8Gb Interface	
	42D0485	Emulex 8Gb FC Single-Port PCIe HBA
	42D0484	Emulex 8Gb FC Dual-Port PCIe HBA
	42D0501	QLogic 8Gb FC Single-Port PCIe HBA
	42D0510	QLogic 8Gb FC Dual-Port PCIe HBA
	46M6049	Brocade 8Gb FC Single-Port PCIe HBA
	46M6050	Brocade 8Gb FC Dual-Port PCIe HBA
	4Gb Interface	
39R6525	QLogic 4Gb FC Single-Port PCIe HBA	
39R6527	QLogic 4Gb FC Dual-Port PCIe HBA	
42C2069	Emulex 4Gbps FC Single-Port PCIe HBA	
42C2071	Emulex 4Gbps FC Dual-Port PCIe HBA	
• ThinkServer Ready: Uninterruptible Power Supplies	UPS	
	21301RX	IBM® UPS 3000 LV (Low Voltage)
	21302RX	IBM® UPS 3000 HV (High Voltage)
21302JX	IBM® UPS 3000 HV (Japan High Voltage)	
• ThinkServer Ready: Server Power and Cables	Redundant Power	
	46M1075	675W Redundant Power Supply (Internal)
	Rack Extension Power Cables	
39Y7932	4.3m, 10A/100-250V, C13 to IEC 320-C14	

 www.lenovo.com/thinkserver/europe

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