

FASTER, GREENER, HIGHLY CUSTOMIZABLE COMPUTING PERFORMANCE

LENOVO® THINKSERVER™ RD220



TOP REASONS TO OWN

- ◆ HIGHLY SCALABLE
- ◆ ENTERPRISE CLASS FEATURES
- ◆ VIRTUALIZATION READY
- ◆ GREEN ENERGY SAVINGS

The brand new ThinkServer RD220 Rack Server provides rock solid hardware with easy to use software tools and world-class services. Built with performance and scalability in mind, the new RD220 provides the fastest ThinkServer experience yet.

HIGHLY SCALABLE

Every RD220 gives customers access to the latest industry technology and virtually limitless ways to expand.

- Latest industry technology using Intel® Xeon® 5500 series processors
- Up to 12 HS 2.5" SAS/SATA HDD bays or 8 HS 2.5" SAS/SATA with internal tape capable solutions
- Expandable up to 16 memory DIMMs and 4 Gen 2 PCI-E slots

ENTERPRISE CLASS FEATURES

Lenovo's new RD220 is the smart choice for businesses looking for maximum scalability and flexibility 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 RD220 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 RD220 makes the transition to a virtual environment seamless by:

- Providing an onboard connector for embedded hypervisor standard with every RD220
- 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 ThinkServers are the greenest yet with full ENERGY STAR® for servers 1.0 compliance. ENERGY STAR® qualified products are 30% more energy efficient than their counterparts which can lead to \$500 - \$1,500 in cost savings per year! Our new power supplies are over 92% efficient; meaning more of the energy you're paying for is translated into usable power.

Lenovo is an active participant in the world standards organizations. In addition to ENERGY STAR® certification all ThinkServers are RoHS certified. Lenovo is also a participant in the Climate Savers program.

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



ThinkServer™ Ideas

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

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NEW WORLD. NEW THINKING.™

THOUGHTFULLY DESIGNED FOR EXPANDING BUSINESSES LETS YOUR SERVER SUPPORT YOUR GROWING COMPANY

LENOVO® THINKSERVER™ RD220



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 RD220. 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:

- A highly expandable platform to run mission critical applications including database, email, virtualization, and line of business
- High performance, high capacity storage (up to 3.6TB of data)
- Built-in data protection standard on every model ensuring that hard drive failure doesn't result in data loss
- Internal tape capable for simplified backup
- 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 RD220 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 functions remotely independent of the status of the server
- IMM Premium (available on select models)
 - ◆ Remote media, which enables mounting of DVD drive, USB flash drive, or disk image to a server
 - ◆ Operating system failure screen capture and display through the Web interface
 - ◆ Full remote control (video,mouse,keyboard) of your server from any location

EASY STARTUP

- Complete hardware provisioning in a wizard format takes the guesswork out of server installation
- Built in RAID configuration ensures your data is protected from the start
- An enhanced list of unattended operating system installs ensures 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 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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ThinkServer™ Ideas

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LENOVO® THINKSERVER™ RD220 SPECIFICATIONS AND SERVICES



Warranty

- 1/1 and 3/3 Onsite

Form Factor

- 2U 2P Rack Optimized

Core Chipset

- Intel® 5520 chipset

Processor

- Intel® Xeon® 5500 Series Processors

Model Name

- RD220

Memory

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

Storage

- RAID 0, 1, 1E or RAID 0, 1, 1E, 5, 6, 10, 50, 60
- 8 x 2.5" HS SAS/SATA with internal tape capable option
- 12 x 2.5" HS SAS/SATA
- Multi-Burner DVD Drive

Connectivity

- Integrated Dual Gigabit Ethernet with TCP/IP Offload Engine (TOE) (Optional 2 additional integrated ports)

Management

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

PCI Slots

- 4 PCI-Express (4x8) Gen 2 slots
 - 2 x 8 full-length, full-height
 - 1 x 8 half-length, full-height
 - 1 x 8 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

- 675W Redundant capable

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 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

A-La-Carte ThinkPlus™ Services

Online Data Backup	Online Training
Provides a secure, online location to backup your valuable business data. 25GB, 50GB, and 100GB options	Learn the basics on components, diagnostics, troubleshooting, and managing your server
Onsite Hardware Installation	Available in English, French, Spanish, German, Italian, Japanese, and Korean
Provides onsite installation of hardware by trained technicians	

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	



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LENOVO® THINKSERVER™ RD220 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		
* Supports Advanced ECC		
Intel® Xeon® 5500 Series Processors		
• Simultaneous Multi-Threading	67Y0004	Intel® Xeon® E5502 Processor (1.86 MHz) Option Kit
	67Y0005	Intel® Xeon® E5506 Processor (2.13 MHz) Option Kit
• Integrated Memory Controller	67Y0006	Intel® Xeon® E5520 Processor (2.26 MHz) Option Kit
	67Y0007	Intel® Xeon® E5504 Processor (2.00 MHz) Option Kit
• Intel® QuickPath	67Y0096	Intel® Xeon® E5540 Processor (2.53 MHz) Option Kit

2.5" SAS and SATA HDD		
<ul style="list-style-type: none"> • Slim Form Factor 2.5" • 6.0 GB/s SAS Interface • Low Power Consumption • Performance (10K/15K) • Hot-Swap Carriages 	SAS	
	67Y0115	ThinkServer 73GB 6.0 GB/s 15K 2.5" SAS SFF HS
	67Y0116	ThinkServer 146GB 6.0 GB/s 10K 2.5" SAS SFF HS
	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 300GB 3.0 GB/s 10K 2.5" SATA SFF HS

ThinkServer Accessories		
<ul style="list-style-type: none"> • Keyboards • Mouse • Monitors 	Keyboards/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 – Third party options for a complete solution				
<ul style="list-style-type: none"> • ThinkServer Ready Options: 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®		
<ul style="list-style-type: none"> • ThinkServer Ready Options: Tape Backup 	44E8895	LTO Half-High Generation 4 SAS Tape Drive		
	43W8480	DDS Generation 5 SATA Tape Drive		
	39M5636	DDS Generation 6 USB Tape Drive		
	RDX Internal USB Bundles		RDX External USB Bundles	
	46C5364	160GB	362516X	160GB
	46C5387	320GB	362532X	320GB
	46C5388	500GB	362550X	500GB
<i>RDX Bundles include the following: Cartridge, Dock, USB cables</i>				
<ul style="list-style-type: none"> • ThinkServer Ready Options: RAID and HDD Controller 	43W4296	ServeRAID MR10i SAS/SATA Controller		
	44E8826	ServeRAID MR10i LI-Ion Battery		
	44E8825	ServeRAID MR10M SAS/SATA with Remote Battery Kit		
	44E8689	ServeRAID BR10i SAS/SATA Controller		
	44E8695	ServeRAID MR10is VAULT SAS/SATA Controller		
	44E8700	ServeRAID 3Gb SAS HBA Controller v2		
<ul style="list-style-type: none"> • ThinkServer Ready Options: Systems Management 	46C7526	Virtual Media Key		
<ul style="list-style-type: none"> • ThinkServer Ready Options: 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			
<ul style="list-style-type: none"> • ThinkServer Ready Options: 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)		
<ul style="list-style-type: none"> • ThinkServer Ready Options: 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

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Availability: Offers, prices, specifications and availability may change without notice. Lenovo is not responsible for photographic or typographic errors.

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