

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 integrated RDX tape
- 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 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 EXPANDING BUSINESSES ALLOWING YOUR SERVER TO 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 RDX tape solutions 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 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
 - Operating system failure screen capture and display through the Web interface

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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LENOVO® THINKSERVER™ RD220 SPECIFICATIONS AND SERVICES



Model Name

- RD220

Warranty

- 1/1 and 3/3 Onsite

Form Factor

- 2U 2P Rack Optimized

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)
- 8 x 2.5" HS SAS/SATA with internal tape option
- 12 x 2.5" HS SAS/SATA
- Multi-Burner DVD Drive

Connectivity

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

Management

- Built in IMM Standard
- EasyManage
- Optional IMM Premium
- Onboard USB flash drive 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

- 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: 482.0 mm (18.9 in)
- Height: 85.4 mm (3.35 in)
- Depth: 730 mm (27.8 in)
- Weight: 29.5 kg (65 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: 20%-80%
- System off: 8% - 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™ 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 |
| • Integrated Memory Controller | 67Y0005 | Intel® Xeon® E5506 Processor (2.13 MHz) Option Kit |
| • Intel® QuickPath | 67Y0006 | Intel® Xeon® E5520 Processor (2.26 MHz) Option Kit |
| | 67Y0007 | Intel® Xeon® E5504 Processor (2.00 MHz) Option Kit |
| | 67Y0096 | Intel® Xeon® E5540 Processor (2.53 MHz) Option Kit |
| 2.5" SAS and SATA HDD | | |
| • 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 | ThinkVision L174 17" Analog Monitor |
| | T43HExx/R43HExx | ThinkVision L1900p 19" LCD Monitor |
| 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 – 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 | |
| RDX Bundles include the following: Cartridge, Dock, USB cables | | | | |
| <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/europe

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