THE LENOVO® THINKSERVER® RD530

COMPUTE-INTENSIVE DENSITY. AMAZING VALUE.

The ThinkServer RD530 offers an powerful solution for compute-intensive deployments. Its feature-rich, no-compromises performance and legendary Think reliability make it an outstanding value that pays you back.

WHY CHOOSE THINKSERVER RD530?

Where Density meets Performance

The ThinkServer RD530 provides an ideal fit for compute-intensive deployments. Its slender 1U chassis belies its power – under the hood, the RD530 features the latest generation dual socket Xeon E5-2600 computing technology that's up to 80% faster than previous generation servers. With up to 16 cores, flexible system configurations and enormous memory capacity, you enjoy lightning-fast performance in a power-efficient yet scalable 1U solution. Robust performance with the RD530 is more than its new micro-architecture – every model comes standard with advanced hardware RAID, an extensive list of standard features and highly scalable SAS, SATA and SSD storage choices. With built-in redundancy, sophisticated cooling technology and advanced spread core micro-architecture, the RD530 delivers world-class power efficiency and reliability you demand. Coupling these features with the latest Xeon performance and the legendary Think quality you trust makes RD530 a compelling choice for compute-intensive usage models.

Virtualization Optimized

The RD530 is ideal for virtualization – it features powerful I/O choices, robust 16-core Xeon performance and enormous memory bandwidth to successfully manage heavy node session traffic. With the latest Xeon E5-2600 technology, you'll enjoy performance to spare. Yet, RD530 is more than a workhorse performer. It offers clever, intuitive manageability tools, at-a-glance diagnostics and rock-solid durability. It's an ideal 1U dual socket solution to consider as you scale out your virtualization infrastructure to meet increasing performance demands of your distributed network.

Infrastructure-Ready

The ThinkServer RD530 offers no-compromises, latest generation E5-2600 Xeon 2P performance for your compute-intensive needs. It features world-class power efficiency, 80+ Gold power choices, hot swap redundant power and an innovative spread-core board design that helps to lower thermal output. And, all that adds up to a highly efficient, power-sipping 1U solution which doesn't compromise on performance. Install the RD530 in your existing datacenter racks with no worries. It features industry-standard, IPMI 2.0-compliant management interfaces and protocols to make installation and integration a snap. The RD530 provides a simple, 3-step installation and comes loaded with a lengthy list of standard features that provide an impressive value. Rest easy. The RD530 continues the world-class design heritage and legendary quality you trust from the makers of Think products. It's a winning choice for your compute-intensive deployments.

Innovative Power Management

Enjoy impressive power savings with ThinkServer SmartGrid power management technology. Based on Intel Power Node Manager® technology, SmartGrid scales power management to the datacenter level, simultaneously managing as many as 1,000 servers. Use SmartGrid at any level of your datacenter hierarchy: rack, row, room, group, etc. It provides sophisticated, policy-based, dynamic power capping tools to help you best manage power to changing server workloads. It's innovation that matters, ThinkServer technology that pays you back.

* 4-hour service response available in select countries; ask your Lenovo sales representitive for details

WHAT MAKES A THINKSERVER THINK?

Outstanding Efficiency and Value

Highly Efficient:

ThinkServer delivers world-class power efficiency – up to 45% more efficient than previous generation servers. Innovative Smart Grid® power management provides policy-based, rack-level power management to significantly lower your energy consumption. Energy Star certified choices provide trusted efficiency and value.

Outstanding Value:

ThinkServer delivers the performance and reliability you demand, nicely configured as standard. It's everything you need in a durable, highly manageable server, and nothing you don't. Standard rack features include advanced RAID, rail kits, onboard diagnostics, hot swap support and web enabled remote management. Feature rich performance, right out of the box. That's what makes a ThinkServer Think.

Legendary Think Reliability

Business-Critical Reliability:

Legendary Think quality resonates in our ThinkServer portfolio --outstanding thermal efficiency, remarkably quiet Acoustics and enterprise-tough design give you confident, highly reliable performance. Redundant power and advanced RAID choices offer ideal protection in demanding 24/7 deployments. Rest easy, ThinkServers are is designed for rugged use, with vibration-resistant, shock-proof drive carriers and robust chassis designs.

Enterprise-Grade Manageability:

Management made easy – ThinkServer offers powerful Easy Manage tools for quick monitoring. Common feature set, BIOS and tools across models provides intuitive, easy maintenance.

Open Standards and Easy Serviceability

Open Standards:

ThinkServers fit anywhere. With industry standard protocols and IPMI 2.0 compliant interfaces you enjoy worry free, easy integration into your existing server networks. Don't be locked into proprietary server choices – ThinkServers work with the tools you use and rely on. Keep your existing management console and storage preferences.

Easy Serviceability:

Extensive shared parts between platforms make it simple to service components and make upgrades. Servicing your racks is easy, with simple 3-step rack installation. And, expert help is available fast when you need it – ThinkServer offers rapid 4-hour service response.

lenovo® FOR THOSE WHO DO.™

SPECIFICATIONS

OS SUPPORT

Windows Server 2008 -- x86 Edition (Standard / Enterprise / Datacenter)
Windows Server 2008 -- x64 Edition (Standard / Enterprise / Datacenter)
Windows Server 2008 R2 -- x64 Edition (Standard / Enterprise / Datacenter)
Windows Server 2008 R2 SP1 -- x64 Edition (Standard / Enterprise / Datacenter)
Windows Small Business Server 2011(Standard / Premium Add On)
Novel SUSE Linux Enterprise Server (11.1 / 11.2)[4]
RedHat Enterprise Linux Server (5.7 / 6.1)
VMWare vSphere 5
Microsoft Hyper-v Server 2008
Microsoft Hyper-v Server 2008 R2 with SP1

CPU

Dual socket.
Intel Xeon E5-2600 series,
up to 130W choices

STORAGE

4x 3.5" HDD – up to 8TB internal SATA storage or 2.4TB internal SAS storage
8x 2.5" HS HDD – up to 7.2TB internal SAS storage

CHIPSET

Intel C602

POWER

1+1 Redundant Power – 800W (80Plus Gold),
Energy Star Server 1.1 compliant

MEMORY

20 DIMM sockets – up to 320GB[1]
- RDIMM and LV RDIMM DDR3-1333 Memory DIMM
- 2G/4G/8G/16G RDIMM
- 2G/4G/8G/16G LV RDIMM
RAS: ECC, Lock step, Mirroring, Sparing
CPU 1: 12 memory slots (4 channel)
CPU 2: 8 memory slots (4 channel)

STORAGE CONTROLLER

ThinkServer RAID 500 Adapter: Hardware SAS/SATA supports RAID 0,1,10
Optional ThinkServer RAID 500 RAID 5 upgrade key

ThinkServer RAID 700 Adapter:
Hardware SAS/SATA supports RAID 0/1/5/10/6/50/60 has 512MB cache
Optional ThinkServer RAID 700 battery

I/O CONNECTORS

Dual ports 10/100/1000 Intel i350 PHYs
One dedicated/shared management LAN (Intel 82574)
Front: 2x USB2.0, 1x VGA
Rear: VGA, COM, 4x USB2.0,
Internal: 2x USB(2x5), 2x USB(typeA), 1x TPM/TCM

CHASSIS

1U Rack mountable

COOLING

7 + 1 redundant fans[3]

DIAGNOSTICS

Intelligent Diagnostics Panel

MANAGEABILITY/RAS/SERVICE

Optional Remote Management / KVM
IPMI 2.0 / SOL
TPM (Supports TCG 1.2)
uEFI

I/O EXPANSION SLOTS

PCIe GEN3: 1 x LP x8 mechanical, x8 electrical
PCIe GEN3: 1 x FH/HL x16 mechanical, x16 electrical**

DIMENSIONS /WEIGHTS

436mm (W) x 43.6mm (H) x 720.6mm (D)
Max 17kg

1 – when installing LV RDIMM memory, a maximum of 16 DIMMs can be populated.
2 – Does not support redundant function when using 130W 4 core CPU
3 Fans are not redundant when using 130W processors or greater
4 Support for SUSE Linux 11.2 will be available in Fall 2012
* 1.2 support will be available in Fall 2012
** Populated with hardware RAID adapter (choose either ThinkServer RAID 500 adapter or ThinkServer RAID 700 adapter)

intel® inside™ Xeon®

lenovo FOR THOSE WHO DO.™

OPTIONS AND ACCESSORIES

RAID OPTIONS

Ensure that your data is protected in the event of a sudden power failure with the optional ThinkServer RAID 700 Battery. Gain piece of mind knowing your unwritten information in the controller cache is protected for up to 48 hours.

ThinkServer RAID 500 Upgrade Key for RAID 5 0A89601

ThinkServer RAID 700 Battery - 67Y2647

ThinkServer 800W Hot Swap Redundant Power Supply - 0A89426

Need Powerful, yet energy efficient performance?

Need a cost effective way to reduce your chances of downtime and lost revenue?

A Redundant Power Supply to help prevent loss of server up time due to power supply failure

They are easily replaced with the server up and running in a redundant configuration

They provide Peace of mind in the event of a single power supply failure

ThinkServer Management Controller Premium - 67Y2624

- Secure Web server user interface
- IPMI Serial over LAN
- Access to critical server settings
- Continuous health monitoring and control
- Automatic notification and alerts, Remote power control
- Remote Keyboard, Video, Mouse (KVM)

ETHERNET

- Industry-leading, energy-efficient next-generation performance.
- Low profiles enable higher bandwidth and throughput.
- Load balancing on multiple CPUs increases performance on 2P systems.
- High-performing, 10/100/1000 Ethernet connections.
- Reliable and proven Gigabit Ethernet technology from Intel Corporation.
- Scalable PCI Express interface provides dedicated I/O.
- Optimized for virtualized environments.

Lenovo Gigabit ET Dual Port Server Adapter by Intel - 0A89423

Lenovo Ethernet I340 Quad Port Server Adapter by Intel - 0A89424

Lenovo 10Gbps Ethernet X520-T2 Server Adapter by Intel - 0A89425

LENOVO SERVICES

Lenovo offers a comprehensive portfolio of award-winning services to support and protect your ThinkServer investment. Succeed with substance, and let Lenovo's Service support you all the way.

Priority Technical Support

Makes your priority, our priority. 24x7 priority call routing to advanced-level technicians, electronic incident tracking, and escalation management services

- 24x7 technical phone support
- Priority call routing
- Advanced level technicians
- Basic usage and software installation support

* Web based tracking of issues and resolutions

Warranty Upgrades - Onsite and Next Business Day

Maximizes PC uptime and productivity by providing convenient, fast repair service at your place of business.

Warranty Extensions (1 to 5 Years Total Duration)

This fixed-term, fixed-cost service helps accurately budget for PC expenses, protect your valuable investment, and potentially lower the cost of ownership over time.

RECOMMENDED SERVICES

Lenovo Services

3 Year On-site Warranty Upgrade with 24 x 7 4-Hour Response & Priority Technical Support*

PART NUMBER: 04W9750

PRICE: US $1,300

CANADA $1,400

* Compatible with RD Series Serverswith 3 Year Next Business Day On-site Base Warranty
Compatible with Machine Types: 2579,2592, 2594, 2595, 2570, 2573, 2575, 2576

WWW.LENOVO.COM

©2012 Lenovo. All rights reserved.
Availability: Offers, prices, specifications and availability may change without notice. Lenovo is not responsible for photographic or typographic errors. **Warranty:** For a copy of applicable warranties, write to: Warranty Information, 500 Park Offices Drive, RTP, NC, 27709, Attn: Dept. ZPYA/B600. Lenovo makes no representation or warranty regarding third-party products or services. **Trademarks:** Lenovo, the Lenovo logo, ThinkServer are trademarks or registered trademarks of Lenovo. Microsoft, Windows, and Vista are registered trademarks of Microsoft Corporation. Intel, the Intel logo, Intel Core, Core Inside, Xeon and Xeon Inside are registered trademarks of Intel Corporation in the U.S. and other countries. Other company, product, and service names may be trademarks or service marks of others. Visit www.lenovo.com/safecomputing periodically for the latest information on safe and effective computing.

intel inside™ Xeon®

WW/WW/DS/Q4-12/27030