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THE LENOVO® THINKSERVER® RD430

STORAGE RICH. REMARKABLE VALUE.

HIGHLY SCALABLE WITH UP TO 16 HARD DRIVES

INCREDIBLE VALUE, WITH PREMIUM FEATURES AS STANDARD: ONBOARD DIAGNOSTICS, EASYMANAGE TOOLSUITE AND WEB-ENABLED REMOTE MANAGEMENT.

OUTSTANDING POWER EFFICIENCY WITH AVAILABLE SMARTGRID POWER MANAGEMENT TECHNOLOGY

AVAILABLE 4-HOUR SERVICE RESPONSE*

OPEN STANDARDS AND PROTOCOLS MEAN EASY INTEGRATION INTO YOUR EXISTING NETWORK

The ThinkServer RD430 offers outstanding power efficiency with exclusive Lenovo SmartGrid technology. These storage-rich, value-oriented dual socket rack servers deliver extensive manageability tools, enormous scalability and fit easily into hybrid network environments.

WHY CHOOSE THINKSERVER RD430?

Redefining Value in x86 Rack Servers.

Choose ThinkServer RD430 when you need world-class power efficiency, proven Xeon E5-2400 performance and a extensive set of standard features. It's ideal for use in retail, education or professional services segments, where you need a powerful, highly scalable 2U rack server at prices easy on your budget. You get all this, along with the legendary Think reliability you trust. RD430 features built-in RAID on every model – your managed networks and user groups enjoy vault-safe data protection and lightning-fast data performance. RD430 offers outstanding remote manageability, an array of network adapter choices and rich I/O. RD430 is a perfect fit for hardware RAID workloads where you rely on robust bandwidth yet with energy efficient design innovation. Go ahead, install RD430 in your existing network. Its open standards design and IPMI 2.0 compliant protocols ensure worry-free integration into your hybrid network environments. RD430 works with your existing tools, management consoles and storage devices.

* Available in select countries

Impressive Manageability and Value

The ThinkServer RD430 is loaded with the enterprise-grade features you demand. With up to 24TB capacity, outstanding I/O expansion and hot-swap drives, it offers a feature-rich solution that makes manageability a snap. Front-side Intelligent Diagnostics provide convenient, confident at-a-glance management. Configure your RD430 with cost-effective SATA or robust SAS drive choices, depending on your usage needs. Its enormous capacity and outstanding RAID protection on all models mean you won't compromise on storage nor data protection. Deploying ThinkServer RD430 as your next generation application server satisfies the demands of your collaborative user groups and allows you to rest easy. Smart move.

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 or group. 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.

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WHAT MAKES A THINKSERVER THINK?

Outstanding Efficiency and Value

Highly Efficient:

ThinkServers deliver 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 80+ Gold-rated power supplies and optional low voltage memory 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 onboard 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, 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 designed for rugged use, with vibration-resistant, shock-proof drive carriers and robust chassis designs.

Enterprise-Grade Manageability:

Management made easy – ThinkServers offer front-side powerful Easy Manage tools for quick monitoring. Common feature set, BIOS and tools across models provides intuitive, easy maintenance.

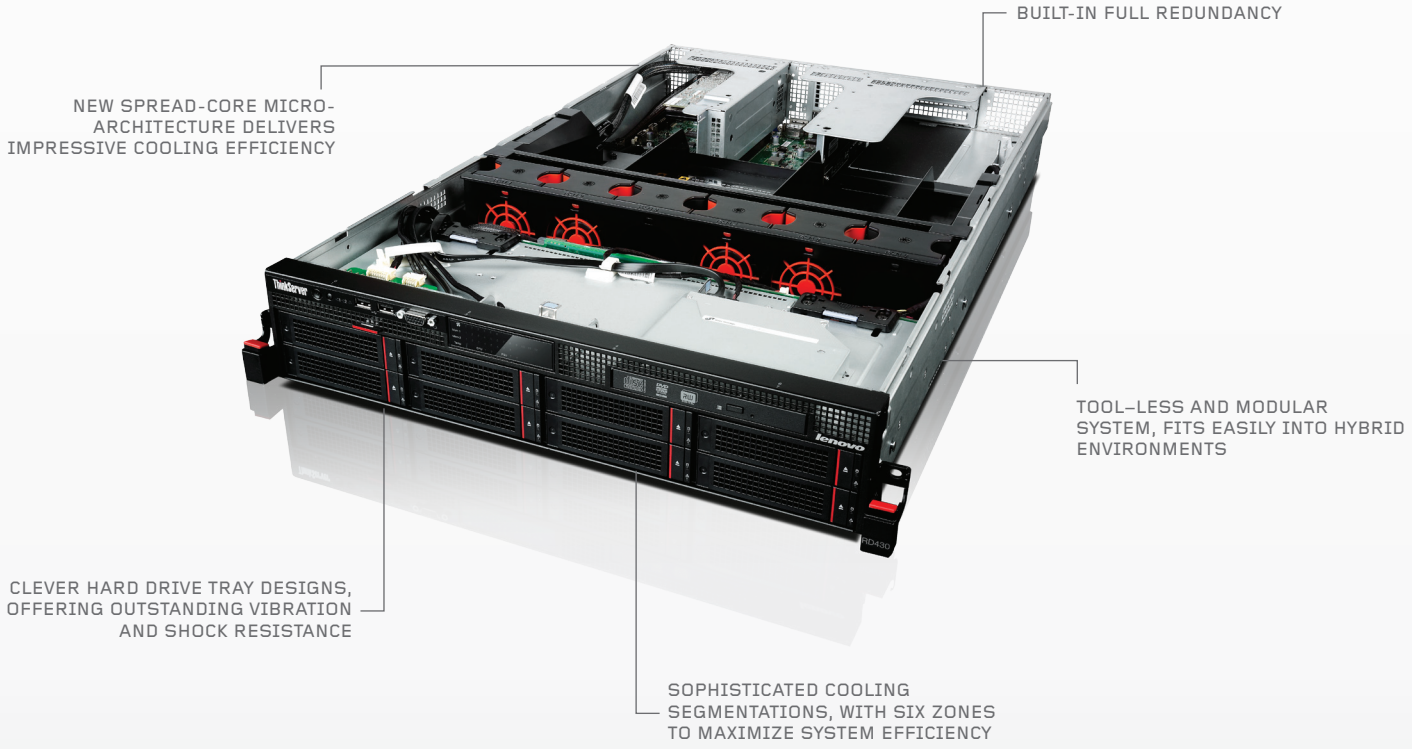
Open Standards and Easy Serviceability

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 –ThinkServer RD430 works with the tools you use and rely on. Keep your existing management console and storage preferences.

Easy Serviceability:

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



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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 E5-2400 series,
up to 95W choices

STORAGE

8x or12x 3.5 HDD Bays – up to 24TB internal SATA storage or 7.2TB internal SAS storage
8x or 16x 2.5" HS HDD Bays – up to 14.4TB* internal SAS storage

CHIPSET

Intel C600

POWER

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

MEMORY

12 DIMM slots - up to 192GB
- 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

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

2U Rack mountable

COOLING

4 Hot-swap fans[3]

I/O EXPANSION SLOTS

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

PCIe GEN3/2 CPU:
1 x LP x8 mechanical, x8 electrical
1 x FH/HL x16 mechanical, x16 electrical***
1 x FH/HL x16 mechanical, x8 electrical
2 x FH/HL x8 mechanical, x8 electrical

DIAGNOSTICS

Intelligent Diagnostics Panel
Intelligent Diagnostics Premium (optional)

MANAGEMENT

ThinkServer Management Module (iBMC)
ThinkServer Management Module Premium (iKVM)

MANAGEABILITY/RAS/SERVICE

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

DIMENSIONS /WEIGHTS

442mm (W) x 87.6mm (H) x 720.6mm (D)
Max 26.5kg

4 Support for SUSE Linux 11.2 will be available in Fall 2012
* 900GB 2.5" SAS hard drive choices will be available Fall 2012
*** Populated with hardware RAID adapter (choose either ThinkServer RAID 500 adapter or ThinkServer RAID 700 adapter)

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OPTIONS AND ACCESSORIES

RAID OPTIONS

With data storage requirements ever increasing, having a solution that meets your performance and availability requirements is crucial. Designed to be cost-effective and enhance uptime, ThinkServer RAID controllers offer a new level of reliability and availability for your business.

ThinkServer RAID 300 Upgrade Key for Advanced RAID - 0A89422

ThinkServer RAID 500 Adapter - 0A89464

ThinkServer RAID 500 Upgrade Key for Advanced RAID - 0A89407

ThinkServer RAID 700 Adapter - 0A89463

ThinkServer RAID 700 Battery - 67Y2647

ThinkServer Hot Swap Redundant Power Supply - 0A89427

Need powerful, yet energy efficient performance? Need a cost effective way to reduce your chances of downtime and lost revenue? A redundant power supply can help prevent loss of server up-time in the event of a power supply failure. Always have a safety net to provide piece of mind knowing that your data is even more secure.

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

4YR Onsite 24x7x4hr Warranty + 4 Year Priority Technical Support*

PART NUMBER: 04W9756

PRICE US: $1700

PRICE CANADA: $1800

* This part is compatible with the following machine types: 3064, 3065, 3070, 3071, 3057, 3059

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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.

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