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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 SMART GRID 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 Smart Grid 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 36TB 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 Smart Grid power management technology. Based on Intel Power Node Manager® technology, Smart Grid scales power management to the datacenter level, simultaneously managing as many as 1,000 nodes. Use Smart Grid 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.

the green grid® member

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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.

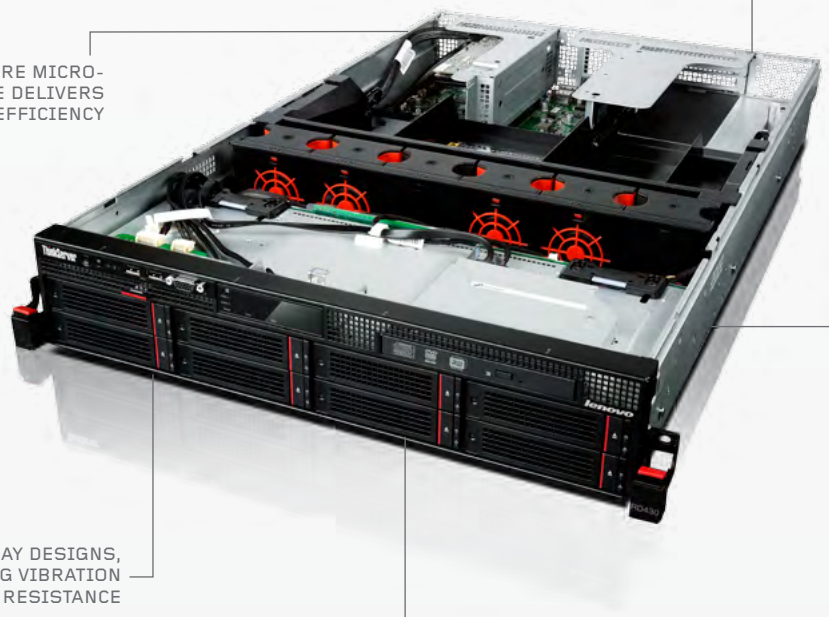
Open Standards and Easy Serviceability

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

Microsoft Windows Server 2012 (Essentials / Standard / Datacenter)
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)
RedHat Enterprise Linux Server (5.7 / 6.1)
VMWare vSphere (5.0 / 5.1) and VMWare ESXi
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 36TB internal SATA storage or 7.2TB internal SAS storage
8x or 16x 2.5" HS HDD Bays – up to 16TB 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 300 adapter (RAID 0/1/10)*
Optional RAID 300 Upgrade Key (RAID 5)

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

The following RAID components are available configure to order:
Optional ThinkServer RAID 710 Adapter Hardware SAS/SATA RAID supports RAID 0/1/5/10/6/50/60 has 1GB cache
Optional ThinkServer RAID Super Capacitor Module
Optional ThinkServer RAID FastPath Software Key
Optional ThinkServer RAID CacheCade Pro 2.0 Key

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

NETWORKING EXPANSION

The following networking components are available configure to order. See Options page for complete details.

* Optional single port, dual port and quad port fibre channel HBA card choices by Emulex and QLogic.
* Optional 10Ggbps ethernet server adapter choices from Intel.

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

CHASSIS

2U Rack mountable

* ThinkServer RAID 300 supports up to 8 HDDs.

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OPTIONS AND ACCESSORIES

HARD DRIVES

- ThinkServer 2.5" 100GB MLC SATA Solid State Drive (0A89420)
- ThinkServer 2.5" 200GB MLC SATA Solid State Drive (0A89418)
- ThinkServer 2.5" 400GB MLC SATA Solid State Drive (0A89419)
- ThinkServer 2.5" 500GB 7.2K 6Gbps SATA HDD (0C19495)
- ThinkServer 2.5" 1TB 7.2K 6Gbps SATA HDD (0C19496)
- ThinkServer 3.5" 500GB 7.2K 6Gbps SATA Hot Swap HDD (0A89473)
- ThinkServer 3.5" 1TB 7.2K 6Gbps SATA Hot Swap HDD (0A89474)
- ThinkServer 3.5" 2TB 7.2K 6Gbps SATA Hot Swap HDD (0A89475)
- ThinkServer 3.5" 3TB 7.2K 6Gbps SATA Hot Swap HDD (0A89477)
- ThinkServer 2.5" 146GB 15K SAS 6Gbps Hot Swap HDD (0C19493)
- ThinkServer 2.5" 300GB 15K SAS 6Gbps Hot Swap HDD (0C19494)
- ThinkServer 3.5" 300GB 15K SAS 6Gbps Hot Swap HDD (67Y2616)
- ThinkServer 3.5" 450GB 15K SAS 6Gbps Hot Swap HDD (67Y2617)
- ThinkServer 3.5" 600GB 15K SAS 6Gbps Hot Swap HDD (67Y2618)
- ThinkServer 2.5" 300GB 10K SAS 6Gbps Hot Swap HDD (67Y2619)
- ThinkServer 2.5" 450GB 10K SAS 6Gbps Hot Swap HDD (67Y2620)
- ThinkServer 2.5" 600GB 10K SAS 6Gbps Hot Swap HDD (67Y2621)
- ThinkServer 2.5" 900GB 10K SAS 6Gbps Hot Swap HDD (0A89409)

MEMORY

- ThinkServer 4GB DDR3-1333MHz (1Rx4) RDIMM (0A89411)
- ThinkServer 8GB DDR3-1333MHz (2Rx4) RDIMM (0A89412)
- ThinkServer 16GB DDR3-1333MHz (2Rx4) RDIMM (0A89413)
- ThinkServer 4GB DDR3L 1333MHz (1Rx4) RDIMM (0A89415)
- ThinkServer 8GB DDR3L 1333MHz (2Rx4) RDIMM (0A89416)
- ThinkServer 16GB DDR3L 1333MHz (2Rx4) RDIMM (0A89417)
- ThinkServer 2GB DDR3-1333Mhz (1RX8) ECC UDIMM (67Y2606)
- ThinkServer 4GB DDR3-1333Mhz (2RX8) ECC UDIMM (67Y2607)

RAID OPTIONS

- ThinkServer RAID 500 Adapter II (0A89464)
- ThinkServer RAID 500 Upgrade Key for Advanced RAID (0A89407)
- ThinkServer RAID 700 Adapter II (0A89463)
- ThinkServer RAID 700 Battery (67Y2647)

HBA AND ETHERNET ADAPTERS*

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 10Gbps Ethernet X520-SR2 Server Adapter by Intel (0C19487)

Lenovo 10Gbps Ethernet X520-DA2 Server Adapter by Intel (0C19486)

Lenovo 10Gbps Ethernet X540-T2 Server Adapter by Intel (0C19497)

Lenovo 10Gbps Ethernet Fiber Module by Intel (0C19488)

ThinkServer LPe1250 Single Port 8Gb Fibre Channel HBA by Emulex (0C19476)

ThinkServer LPe12002 Dual Port 8Gb Fibre Channel HBA by Emulex (0C19478)

MANAGEMENT AND POWER

- ThinkServer 800W Hot Swap Redundant Power Supply (0A89427)
- ThinkServer Management Controller Premium (67Y2624)

* select HBA and ethernet adapter options will be available in 1Q 2013. Ask your Lenovo sales representative for availability

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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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