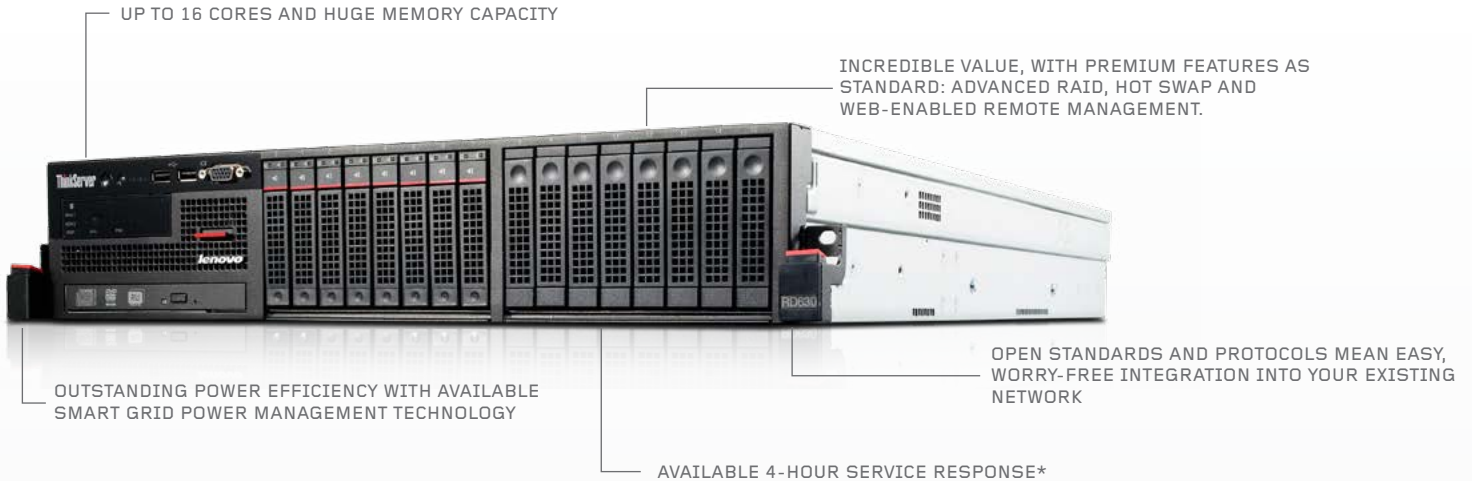**lenovo**® **FOR THOSE WHO DO.**™

THE LENOVO® THINKSERVER® RD630

ENTERPRISE PERFORMANCE.
OUTSTANDING EFFICIENCY.

UP TO 16 CORES AND HUGE MEMORY CAPACITY

INCREDIBLE VALUE, WITH PREMIUM FEATURES AS STANDARD: ADVANCED RAID, HOT SWAP AND WEB-ENABLED REMOTE MANAGEMENT.

OUTSTANDING POWER EFFICIENCY WITH AVAILABLE SMART GRID POWER MANAGEMENT TECHNOLOGY

OPEN STANDARDS AND PROTOCOLS MEAN EASY, WORRY-FREE INTEGRATION INTO YOUR EXISTING NETWORK

AVAILABLE 4-HOUR SERVICE RESPONSE*

The ThinkServer RD630 offers unmatched power efficiency with exclusive Lenovo Smart Grid technology. These high performance dual socket rack servers deliver extensive manageability tools, enormous scalability and fit easily into hybrid network environments.

WHY CHOOSE THINKSERVER RD630?

No-Compromises Performance for Decision Support

Choose ThinkServer RD630 when you need world-class reliability in a highly scalable, powerful 2U solution. It's ideal for business process or decision support deployments, where you demand rich performance, flexible system configurations and an optimized memory sub-system. All this with the legendary Think reliability you trust. RD630 features built-in full redundancy and sophisticated hardware RAID on every model – your managed networks and user groups enjoy vault-safe data protection and lightning-fast data performance. RD630 offers outstanding remote manageability, an array of network adapter choices and rich I/O. It's a perfect fit for high performance workloads where you rely on robust bandwidth yet with energy efficient design innovation. Go ahead, install RD630 in your existing network. Its open standards design and IPMI 2.0 compliant protocols ensure worry-free integration into your hybrid network environments. RD630 works with your existing tools, management consoles and storage devices. It powers your demanding decision support apps with ease.

Ideal for Collaboration and Infrastructure

Leveraging the latest generation Xeon E5-2600 processing performance, the RD630 is ideal for collaboration-intense deployments. Load it up with bandwidth-hungry apps. With up to 16 cores, flexible system configurations and enormous memory capacity, the RD630 delivers outstanding compute power that's ideal for IT infrastructure and database applications. All that performance isn't just a processor tweak. The latest Xeon E5-2600 technology offers up to 80% greater performance versus previous generation servers – a perfect fit for the demanding apps which you're trusted to manage.
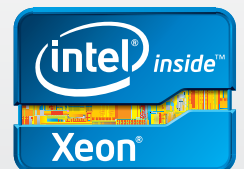
Database-Ready

The ThinkServer RD630 is loaded with the database-centric features you demand. With up to 24TB capacity, outstanding I/O expansion and hot-swap, front-access 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 RD630 with cost-effective SATA, robust SAS or latest generation SSD choices, depending on your usage needs. Its enormous capacity and outstanding RAID protection on all models means you won't compromise on storage nor data protection. Deploying ThinkServer RD630 as your next generation database 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 servers. 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.

* Available in select countries

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 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 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.
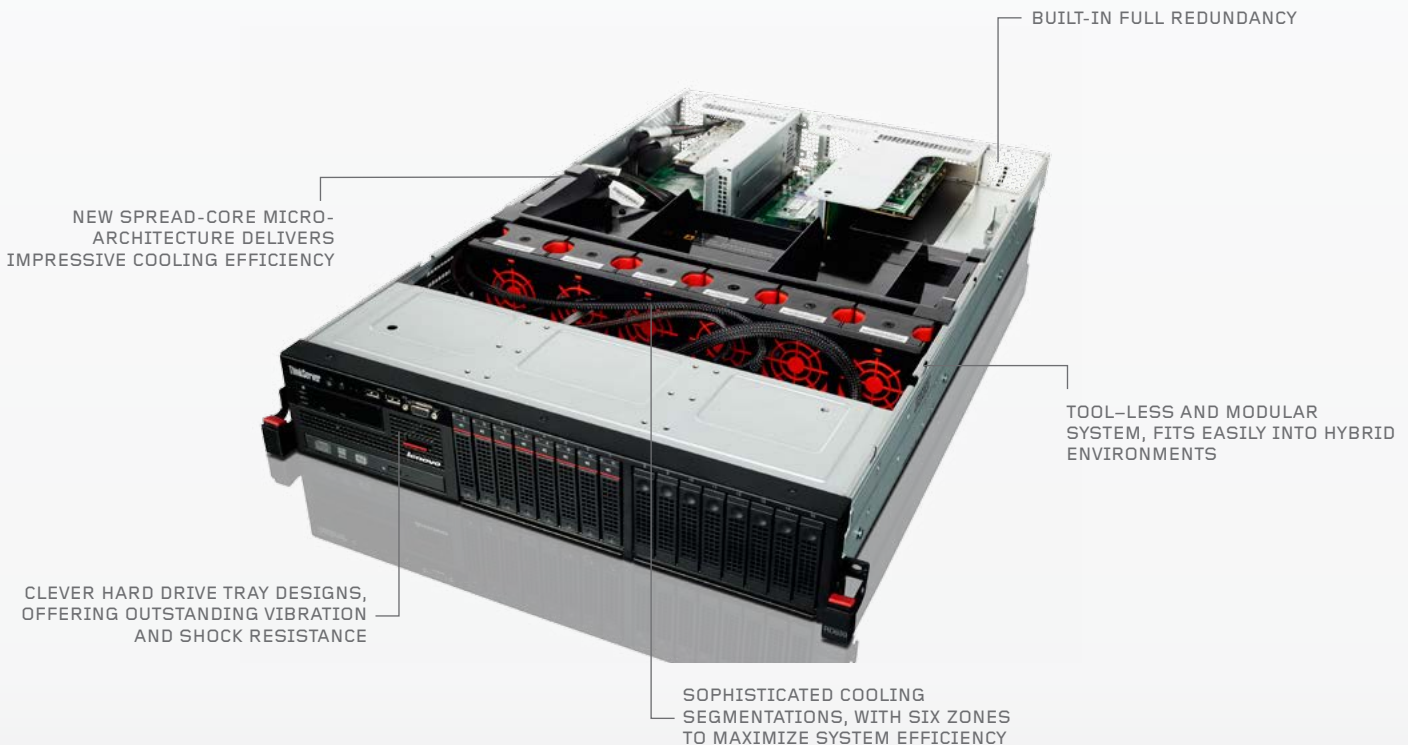
Open Standards and Easy Serviceability

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 RD630 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.

BUILT-IN FULL REDUNDANCY

NEW SPREAD-CORE MICRO-ARCHITECTURE DELIVERS IMPRESSIVE COOLING EFFICIENCY

TOOL–LESS AND MODULAR SYSTEM, FITS EASILY INTO HYBRID ENVIRONMENTS

CLEVER HARD DRIVE TRAY DESIGNS, OFFERING OUTSTANDING VIBRATION AND SHOCK RESISTANCE

SOPHISTICATED COOLING SEGMENTATIONS, WITH SIX ZONES TO MAXIMIZE SYSTEM EFFICIENCY

THE LENOVO® THINKSERVER® RD630

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SPECIFICATIONS

OS SUPPORT		CPU
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		Dual socket. Intel Xeon E5-2600 series, up to 135W choices

STORAGE	CHIPSET	POWER
8x3.5" HDD – up to 24TB internal SATA storage or 4.8TB internal SAS storage 8x or 16x 2.5" HS HDD – up to 16TB internal SAS storage	Intel C602	1+1 Redundant Power – 800W (80Plus Gold), Energy Star Server 1.1 compliant

MEMORY	STORAGE CONTROLLER RAID	I/O CONNECTORS
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)	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	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

COOLING	CHASSIS	DIMENSIONS /WEIGHTS
5 + 1 Hot-swap redundant fans[2]	2U Rack mountable	442mm (W) x 87.6mm (H) x 720.6mm (D) Max 26.5kg

DIAGNOSTICS	MANAGEMENT	MANAGEABILITY/RAS/SERVICE
Intelligent Diagnostics Panel Intelligent Diagnostics Premium (optional)	ThinkServer Management Module (iBMC) ThinkServer Management Module Premium (iKVM)	Optional Remote Management / KVM IPMI 2.0 / SOL TPM (Supports TCG 1.2) uEFI

I/O EXPANSION SLOTS

PCIe 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

1 – when installing LV RDIMM memory, a maximum of 16 DIMMs can be populated.
2 Fans are not redundant when using 130W processors or greater
* Populated with hardware RAID adapter (choose either ThinkServer RAID 500 adapter or ThinkServer RAID 700 adapter)

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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)

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-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 (0A89426)
· ThinkServer Management Controller Premium (67Y2624)

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