

LENOVO THINKSERVER RD650

Incredible storage density and a highly flexible design — perfect for your business-critical applications



OUTSTANDING STORAGE DENSITY

Tremendous internal storage capacity and more I/O connectivity than ever before is the result of an innovative design on the new Lenovo® ThinkServer® RD650. With up to 26 drive bays and 74.4 TB of internal storage capacity, the RD650 is great for storage-hungry applications, such as databases, data analytics clusters and video streaming. Two additional enterprise-class M.2 solid-state drives (SSDs) are available as an option for secure booting as well as SD card options for hypervisor booting.

Up to eight PCIe slots give you plenty of bandwidth to scale your I/O.

For ultimate performance, industry-unique Lenovo AnyBay design allows multiple storage types in the same drive bay, including front-accessible PCIe SSD.

HIGHLY FLEXIBLE DESIGN

The latest Intel® Xeon® processors, large memory capacity and loads of storage, combined with multiple chassis types, RAID choices and I/O options, make it easy to create the perfect RD650 configuration to run your business-critical applications.

In addition to the standard 3.5- and 2.5-inch chassis, the RD650 offers a unique hybrid option with nine 3.5-inch and six 2.5- inch drive bays in the front and two 2.5-inch drive bays in the back – great for creating a tiered storage environment.

Leveraging the new Lenovo AnyFabric and AnyRAID designs, the RD650 can house up to four 10 Gb Ethernet ports and your choice of RAID adapter — without taking up any of the available PCIe slots.

EXTRA-RELIABLE PERFORMANCE

Data center cooling costs can be greater than the cost of powering the IT equipment itself. One way to reduce these cooling costs is by operating the data center at a higher temperature. With a dynamic environmental design, the RD650 can run at 45 degrees Celsius continuously — with no impact on reliability. In fact, the system has been carefully architected and tested to support long-term reliability.

The RD650 is also perfect for organizations that install servers in less strictly controlled environments.

Other high-reliability features include ECC memory, hot-swap hard-disk drive and SSD capability, and hot-swap and redundant power and cooling.



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SPECIFICATIONS

FORM FACTOR/HEIGHT	2U Rack
PROCESSOR	Up to two 18-core Intel Xeon E5-2600 v3 Series
MEMORY	Up to 768 GB DDR4 - 2133 MHz via 24 slots (RDIMM/LRDIMM)
MEDIA BAYS	Up to 1
DISK BAYS	Up to 12 x 3.5" front + up to 2 x 2.5" rear ¹ or up to 24 x 2.5" front + up to 2 x 2.5" rear ¹ or up to 9 x 3.5" front + up to 6 x 2.5" front + up to 2 x 2.5" rear ¹
MAXIMUM INTERNAL STORAGE	Up to 74.4 TB 3.5" chassis ² or up to 30.8 TB 2.5" chassis ² or up to 63.2 TB hybrid chassis ² ; M.2 SSD and SD card options available ³
RAID SUPPORT	ThinkServer RAID 110i AnyRAID (0/1/10, optional 5) ThinkServer RAID 510i AnyRAID Adapter (0/1/10, optional 5) ThinkServer RAID 720i AnyRAID Adapter (0/1/10/5/50/6/60) ThinkServer RAID 720ix AnyRAID Adapter (0/1/10/5/50/6/60)
POWER SUPPLY	Redundant hot-swap 550W/750W/1100W (80 PLUS Platinum), 110V to 240V AC input 750W (80 PLUS Titanium), 200V to 240V AC input 1600W (80 PLUS Platinum), 200V to 240V AC input
NETWORK INTERFACE	1 x Integrated Gb Ethernet (Dedicated management port) 1 x AnyFabric slot with choice of Ethernet NIC, Fibre Channel HBA or CNA
EXPANSION SLOTS	All chassis up to: 3 x PCIe Gen3: LP x8 4 x PCIe Gen3: FLFH x8 1 x PCIe Gen3: HLFH x8
COOLING	4 Redundant hot-swap fans with 1 processor or 6 redundant hot-swap fans with 2 processors
SYSTEMS MANAGEMENT	ThinkServer System Manager Optional ThinkServer System Manager Premium
OPERATING SYSTEMS SUPPORTED	Microsoft Windows Server 2012 R2 (Including Hyper-V), Microsoft Windows Server 2012 (Including Hyper-V), Microsoft Windows Server 2008 R2 SP1 (Including Hyper-V), SUSE Linux Enterprise Server, Red Hat Enterprise Linux Server, VMware vSphere ESXi, Citrix XenServer
DIMENSIONS (W X H X D)	(482 mm x 87 mm x 764 mm) or (19.0" x 3.4" x 30.1")
WEIGHT	Starting at (16.0 kg) or (35.3 lbs)

1 Rear drives SATA only

2 Based on 6 TB drives coming soon

3 Coming soon

OPTIONS

<p>ThinkServer 8GB DDR4 - 2133MHz RDIMM</p> <p>4X70F28589</p> <p>Boost the capabilities of your ThinkServer system and increase performance.</p>	<p>ThinkServer RAID 720ix AnyRAID Adapter</p> <p>4XB0F28694</p> <p>Safeguard your data and increase performance without using a PCIe slot.</p>	<p>ThinkServer OCm14104-UX-L AnyFabric 10Gb 4P SFP+ CNA by Emulex</p> <p>4XC0F28744</p> <p>Leverage the bandwidth potential of your network and scale your I/O.</p>
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For a complete list of options, visit lenovoquickpick.com

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To learn more about the Lenovo ThinkServer RD650, please contact your Lenovo Business Partner or visit shop.lenovo.com/us/en/servers/thinkserver/racks/rd650

