

# PowerEdge T630

The Dell PowerEdge T630 rackable tower server delivers ultimate two-processor performance, versatility and availability for a wide range of demanding workloads in small and medium business environments.

Featuring the latest Intel® Xeon® processor E5-2600 v3 product family, huge internal storage capacity, extensive configuration flexibility and the most powerful GPU capability in the PowerEdge server portfolio, the PowerEdge T630 enables users to readily adapt to demanding workloads. From collaboration and productivity applications (mail and messaging, file and print, web serving, video serving) to Online Transaction Processing (OLTP) in retail environments, to record retention and management in healthcare and education, the T630 helps drive business success for small- to medium-sized businesses, large enterprise remote and branch offices, and data centers.

## Deliver peak performance

Drive peak compute performance with the latest Intel E5 processors and up to 768GB of DDR4 memory. Accelerate data performance and throughput with Express Flash PCIe SSDs, 12Gbps SAS and PCI Express® (PCIe) 3.0 I/O and storage tiering. Deliver greater performance and faster data analytics with support for up to four optional GPUs.

## Maximize operational efficiency

Accelerate time to production and improve ROI with the Dell OpenManage™ portfolio — systems management tools that streamline and automate deployment. Control energy budgets with highly energy-efficient processors, memory, power supplies and Dell Fresh Air solutions.

## Deliver greater versatility

Ensure fast response times as you grow by expanding the T630's memory footprint up to 24 DDR4 DIMMs. Harness data explosion with massive internal storage capacity — 32 x 2.5" or 18 x 3.5" hard drives — and readily adapt to changing workload conditions with a platform pretested for virtualization and high-availability clusters.

## Innovative management with intelligent automation

The Dell OpenManage systems management portfolio includes innovative solutions that simplify and automate essential server lifecycle management tasks — making IT operations more efficient and Dell servers the most productive, reliable and cost effective. Leveraging the incomparable agent-free capabilities of the PowerEdge embedded integrated Dell Remote Access Controller (iDRAC) with Lifecycle Controller technology, server deployment, configuration and updates are streamlined across the OpenManage portfolio and through integration with third-party management solutions,

Monitoring and control of Dell and third-party data center hardware is provided by OpenManage Essentials and with anytime, anywhere mobile access, through OpenManage Mobile. OpenManage Essentials now also delivers Server Configuration Management capabilities that automate one-many PowerEdge bare-metal server and OS deployments, quick and consistent replication of configurations and ensure compliance to a predefined baseline with automated drift detection.

## PowerEdge T630

- Up to two Intel Xeon E5-2600 v3 processors
- Up to 24 DDR4 DIMMs
- Massive internal storage capacity with up to 32 x 2.5" or 18 x 3.5" hard drives
- Up to four optional hot-plug Express Flash PCIe SSDs
- Up to four optional GPUs

Feature	PowerEdge T630 technical specification
Form factor	Tower (5U rackable)
Processor	Intel® Xeon® processor E5-2600 v3 product family
Processor sockets	2
Internal interconnect	2 x Intel QuickPath Interconnect (QPI) links; 6.4GT/s, 8.0GT/s, 9.6GT/s
Cache	2.5MB per core; core options: 4, 6, 8, 10, 12, 16, 18
Chipset	Intel C610
Memory <sup>1</sup>	Up to 768GB (24 DIMM slots): 2GB/4GB/8GB/16GB/32GB/64GB DDR4 up to 2133MT/s
I/O slots	<p><b>8 PCIe slots:</b></p> <ul style="list-style-type: none"> <li>Slot 1: one x16 PCIe 3.0 for FL/FH card from CPU1</li> <li>Slot 2: one x8 PCIe 2.0 for FL/FH card from PCH (x4 lanes)</li> <li>Slot 3: one x16 PCIe 3.0 for FL/FH card from CPU1</li> <li>Slot 4: one x8 PCIe 3.0 for HL/FH card from CPU2</li> <li>Slot 5: one x8 PCIe 2.0 for FL/FH card from CPU2 (x4 lanes)</li> <li>Slot 6: one x16 PCIe 3.0 for FL/FH card from CPU2</li> <li>Slot 7: one x16 PCIe 3.0 for FL/FH card from CPU2</li> <li>Slot 8 (Internal PERC slot): one x8 PCIe 3.0 for HL/FH card from CPU1</li> </ul>
RAID controllers	<p><b>Internal controllers:</b> PERC S130 (SW RAID), PERC H330, PERC H730, PERC H730P</p> <p><b>External HBAs (RAID):</b> PERC H830</p> <p><b>External HBAs (non-RAID):</b> 12Gbps SAS HBA</p>
Drive bays	<p><b>Internal hard drive bay and hot-plug backplane:</b></p> <p>Up to 8 x 3.5" SAS, SATA, nearline SAS, SSD, PCIe SSD drives with optional flex bay</p> <p>Up to 18 x 3.5" SAS, SATA, nearline SAS, SSD drives</p> <p>Up to 16 x 2.5" SAS, SATA, nearline SAS, SSD, PCIe SSD drives with optional flex bay</p> <p>Up to 32 x 2.5" SAS, SATA, nearline SAS, SSD drives</p>
Maximum internal storage <sup>1</sup>	<p>18 x 3.5" HDD – up to 72TB via 4TB hot-plug SAS hard drives</p> <p>32 x 2.5" HDD – up to 38TB via 1.2TB hot-plug SAS hard drives</p> <p>Up to 4 optional Express Flash PCIe SSD's</p>
Hard drives	<p><b>Hot-plug hard drive options:</b></p> <p>2.5" SAS, SATA, nearline SAS, SSD, Express Flash PCIe SSD</p> <p>3.5" SAS, SATA, nearline SAS, SSD</p> <p>Self-encrypting drives available</p>
Embedded NIC	Intel dual-port 1GbE LOM
GPU	Support for up to 4 optional 300W internal GPU processing accelerators
Power supplies	Titanium efficiency 750W AC power supply; Gold efficiency 1100W DC power supply; Platinum efficiency 495W, 750W, 1100W or 1600W AC power supply
Availability	High-efficiency, hot-plug, redundant power supplies; hot-plug drive bays; dual internal SD module; hot-plug redundant fan; optional bezel; information tag; ECC memory switch independent partitioning, Single Device Data Correction (SDDC), spare rank, tool-less chassis, support for high availability clustering and virtualization, proactive systems management alerts
Systems management	<p><b>Systems management:</b> IPMI 2.0 compliant, Dell OpenManage Essentials, Dell OpenManage Mobile, Dell OpenManage Power Center</p> <p><b>Remote management:</b> iDRAC8 with Lifecycle Controller, iDRAC8 Express (default), iDRAC8 Enterprise (upgrade), 8GB vFlash media (upgrade), 16GB vFlash media (upgrade)</p> <p><b>Dell OpenManage Integrations:</b></p> <ul style="list-style-type: none"> <li>Dell OpenManage Integration Suite for Microsoft® System Center</li> <li>Dell OpenManage Integration for VMware® vCenter™</li> </ul> <p><b>Dell OpenManage Connections:</b></p> <ul style="list-style-type: none"> <li>HP Operations Manager, IBM Tivoli® Netcool® and CA Network and Systems Management</li> <li>Dell OpenManage Plug-in for Oracle® Database Manager</li> </ul>
Rack support	ReadyRails™ II sliding rails for tool-less mounting in 4-post racks with square or unthreaded round holes or tooled mounting in 4-post threaded hole racks, with support for optional tool-less cable management arm. Rack mount model available (must be ordered at time of initial purchase).
Operating systems	<p>Microsoft Windows Server® 2008/2012 R2 (includes Hyper-V®)</p> <p>Microsoft Windows Server 2008/2012 R2 SP2, x86/x64 (includes Hyper-V)</p> <p>Novell® SUSE® Linux Enterprise Server</p> <p>Red Hat® Enterprise Linux®</p> <p><b>Optional embedded hypervisors:</b></p> <p>Citrix® XenServer®</p> <p>VMware vSphere® ESXi™</p> <p>Red Hat Enterprise Virtualization®</p> <p>For more information on the specific versions and additions, visit: <a href="http://Dell.com/OSsupport">Dell.com/OSsupport</a>.</p>
OEM-ready version available	From bezel to BIOS to packaging, your servers can look and feel as if they were designed and built by you. For more information, visit <a href="http://Dell.com/OEM">Dell.com/OEM</a> .
Recommended support	Dell ProSupport Plus for critical systems or Dell ProSupport for premium hardware and software support for your PowerEdge solution. Consulting and deployment offerings are also available. Contact your Dell representative today for more information. Availability and terms of Dell Services vary by region. For more information, visit <a href="http://Dell.com/ServiceDescriptions">Dell.com/ServiceDescriptions</a> .

<sup>1</sup> GB equals 1 billion bytes and TB equals 1 trillion bytes; actual capacity varies with preloaded material and operating environment and will be less.

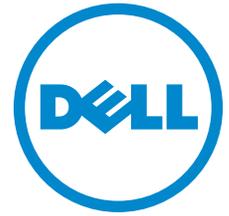
## Global services and support

Reduce IT complexity, lower costs and eliminate inefficiencies by making IT and business solutions work harder for you. You can count on Dell for end-to-end solutions to maximize your performance and uptime. A proven leader in Servers, Storage and Networking, Dell Enterprise Solutions and Services deliver innovation at any scale. And if you're looking to preserve cash or increase operational efficiency, Dell Financial Services™ has a wide range of options to make technology acquisition easy and affordable. Contact your [Dell Sales Representative](#) for more information.\*\*

Learn More at [Dell.com/PowerEdge](http://Dell.com/PowerEdge).

©2014 Dell Inc. All rights reserved. Dell, the DELL logo, the DELL badge, PowerEdge, and OpenManage are trademarks of Dell Inc. Other trademarks and trade names may be used in this document to refer to either the entities claiming the marks and names or their products. Dell disclaims proprietary interest in the marks and names of others. This document is for informational purposes only. Dell reserves the right to make changes without further notice to any products herein. The content provided is as is and without express or implied warranties of any kind. \*\*Leasing and financing provided and serviced by Dell Financial Services L.L.C. or its affiliate or designee ("DFS") for qualified customers. Offers may not be available or may vary in certain countries. Where available, offers may be changed without notice and are subject to product availability, credit approval, execution of documentation provided by and acceptable to DFS, and may be subject to minimum transaction size. Offers not available for personal, family or household use. Dell and the DELL logo are trademarks of Dell Inc.





# PowerEdge R630

With computing capability previously only seen in 2U servers, the ultra-dense PowerEdge R630 two-socket 1U rack server delivers an impressive solution for virtualization environments, large business applications or transactional databases.

The PowerEdge R630 server is versatile and highly configurable for a variety of solutions, delivering the latest Intel® Xeon® processor E5-2600 v3 product family, 24 DIMMs of high-performance DDR4 memory and a broad range of local storage options.

## Deliver peak performance

Build a blazingly fast transactional database with the R630 24 all-flash drive configuration. Combine the density, scalability and performance of 24 1.8" SSDs with dual-PERC capability to deliver a superior solution that can boost performance by storing an entire database. When combined with the SanDisk® DAS Cache solution, the R630 can help increase OLTP transactions and concurrent usage for latency-sensitive applications, such as e-commerce or financial trading.

## Discover greater versatility

With up to 24 DIMMs of memory, and configured with up to 10 2.5" drives, the R630 can provide a dense, resource-rich mid-sized virtualization environment to drive business Intelligence applications, from customer relationship management (CRM) to enterprise-resource planning (ERP), while it saves on space, energy and capital costs.

You can also increase the speed of data access using up to four NVMe PCIe Express Flash devices with Fluid Cache technology – and share that caching advantage across other networked servers.

## Maximize operational efficiency

Quickly and securely monitor or modify critical server settings "at the box" with the iDRAC Quick Sync bezel with embedded near field communication (NFC) capability. Use a handheld device with the bezel to quickly check system health details, and use iDRAC Direct to easily deploy or modify settings across multiple servers with a USB key or laptop, eliminating the potential for configuration errors.

## Innovative management with intelligent automation

The Dell OpenManage systems management portfolio includes innovative solutions that simplify and automate essential server lifecycle management tasks – making IT operations more efficient and Dell servers the most productive, reliable and cost effective. Leveraging the incomparable agent-free capabilities of the PowerEdge embedded integrated Dell Remote Access Controller (iDRAC) with Lifecycle Controller technology, server deployment, configuration and updates are streamlined across the OpenManage portfolio and through integration with third-party management solutions.

Monitoring and control of Dell and third-party data center hardware is provided by OpenManage Essentials and with anytime, anywhere mobile access, through OpenManage Mobile. OpenManage Essentials now also delivers Server Configuration Management capabilities that automate one-many PowerEdge bare-metal server and OS deployments, quick and consistent replication of configurations and ensure compliance to a predefined baseline with automated drift detection.

## PowerEdge R630

- Latest Intel Xeon E5-2600 v3 processors – up to 18 cores
- Up to 24 DIMMs high-capacity DDR4 memory
- Up to 24 1.8" SSDs (23TB)
- Up to 3 PCIe 3.0 expansion slots
- Up to 4 Express Flash NVMe PCIe SSDs

Feature	PowerEdge R630 technical specification
Form factor	1U rack
Processor	Intel® Xeon® processor E5-2600 v3 product family
Processor sockets	2
Dimensions	24 x 1.8" and 10 x 2.5" drive configuration: H: 4.28 cm (1.68 in.) x W: 48.23 cm (18.98 in.) x D: 75.51 cm (29.72 in.) 8 x 2.5" drive configuration: H: 4.28 cm (1.68 in.) W: 48.23 cm (18.98 in.) D: 70.05 cm (27.57 in.)
Cache	2.5MB per core; core options: 4, 6, 8, 10, 12, 16, 18
Chipset	Intel C610 series chipset
Memory <sup>1</sup>	Up to 768GB (24 DIMM slots): 4GB/8GB/16GB/32GB DDR4 up to 2133MT/s
I/O slots	Up to 3 x PCIe 3.0 slots plus dedicated PERC slot
RAID controllers	<b>Internal controllers:</b> PERC S130 (SW RAID), PERC H330, PERC H730, PERC H730P <b>External HBAs (RAID):</b> PERC H830 <b>External HBAs (non-RAID):</b> 12Gbps SAS HBA
Drive bays	<b>Internal hard drive bay and hot-plug backplane:</b> Up to 24 x 1.8" SATA SSD Up to 10 x 2.5" HDD: SAS, SATA, nearline SAS SSD: SAS, SATA, Up to 4 NVMe PCIe Up to 8 x 2.5" HDD: SAS, SATA, nearline SAS SSD: SAS, SATA
Maximum internal storage <sup>1</sup>	HDD: SAS, SATA, nearline SAS SSD: SAS, SATA, NVMe PCIe 24 x 1.8" SSD – up to 23TB via 0.96 TB hot-plug SATA SSD 10 x 2.5" – up to 18TB via 1.8TB hot-plug SAS HDD 8 x 2.5" – up to 14TB via 1.8TB hot-plug SAS HDD
Embedded NIC	4 x 1Gb, 2 x 1Gb + 2 x 10Gb, 4 x 10Gb
Power supplies	Titanium efficiency 750W AC power supply; 1100W DC power supply; Platinum efficiency 495W, 750W, 1100W
Availability	ECC memory, hot-plug hard drives, hot-plug redundant cooling, hot-plug redundant power, internal dual SD module, single device data correction (SDDC), spare rank, support for high availability clustering and virtualization, proactive systems management alerts
Systems management	<b>Systems management:</b> IPMI 2.0 compliant; Dell OpenManage Essentials; Dell OpenManage Mobile; Dell OpenManage Power Center <b>Remote management</b> iDRAC8 with Lifecycle Controller, iDRAC8 Express (default), iDRAC8 Enterprise (upgrade) 8GB vFlash media (upgrade), 16GB vFlash media (upgrade) iDRAC Quick Sync <b>Dell OpenManage Integrations:</b> • Dell OpenManage Integration Suite for Microsoft® System Center • Dell OpenManage Integration for VMware® vCenter™ <b>Dell OpenManage Connections:</b> • HP Operations Manager, IBM Tivoli® Netcool® and CA Network and Systems Management • Dell OpenManage Plug-in for Oracle® Database Manager
Rack support	ReadyRails™ II sliding rails for tool-less mounting in 4-post racks with square or unthreaded round holes or tooled mounting in 4-post threaded hole racks, with support for optional tool-less cable management arm.
Operating systems	Microsoft Windows Server® 2008/2012 SP2, x86/x64 (x64 includes Hyper-V®) Microsoft Windows Server 2008/2012 R2, x64 (includes Hyper-V) Microsoft Windows HPC Server 2008 Novell® SUSE® Linux Enterprise Server Red Hat® Enterprise Linux <b>Optional embedded hypervisors:</b> Citrix® XenServer® VMware vSphere® ESXi™ For more information on the specific versions and additions, visit <a href="http://Dell.com/OSsupport">Dell.com/OSsupport</a> .
OEM-ready version available	From bezel to BIOS to packaging, your servers can look and feel as if they were designed and built by you. For more information, visit <a href="http://Dell.com/OEM">Dell.com/OEM</a> .
Recommended support	Dell ProSupport Plus for critical systems or Dell ProSupport for premium hardware and software support for your PowerEdge solution. Consulting and deployment offerings are also available. Contact your Dell representative today for more information. Availability and terms of Dell Services vary by region. For more information, visit <a href="http://Dell.com/ServiceDescriptions">Dell.com/ServiceDescriptions</a> .

<sup>1</sup> GB equals 1 billion bytes and TB equals 1 trillion bytes; actual capacity varies with preloaded material and operating environment and will be less.

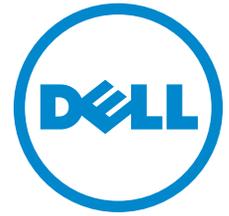
## End-to-end technology solutions

Reduce IT complexity, lower costs and eliminate inefficiencies by making IT and business solutions work harder for you. You can count on Dell for end-to-end solutions to maximize your performance and uptime. A proven leader in Servers, Storage and Networking, Dell Enterprise Solutions and Services deliver innovation at any scale. And if you're looking to preserve cash or increase operational efficiency, Dell Financial Services™ has a wide range of options to make technology acquisition easy and affordable. Contact your [Dell Sales Representative](#) for more information.\*\*

Learn More at [Dell.com/PowerEdge](http://Dell.com/PowerEdge).

©2014 Dell Inc. All rights reserved. Dell, the DELL logo, the DELL badge, PowerEdge, and OpenManage are trademarks of Dell Inc. Other trademarks and trade names may be used in this document to refer to either the entities claiming the marks and names or their products. Dell disclaims proprietary interest in the marks and names of others. This document is for informational purposes only. Dell reserves the right to make changes without further notice to any products herein. The content provided is as is and without express or implied warranties of any kind. \*\*Leasing and financing provided and serviced by Dell Financial Services L.L.C. or its affiliate or designee ("DFS") for qualified customers. Offers may not be available or may vary in certain countries. Where available, offers may be changed without notice and are subject to product availability, credit approval, execution of documentation provided by and acceptable to DFS, and may be subject to minimum transaction size. Offers not available for personal, family or household use. Dell and the DELL logo are trademarks of Dell Inc.





# PowerEdge R730

A highly versatile, two-socket 2U rack server with impressive processor performance, a large memory footprint, extensive I/O options and a choice of dense, high-performance storage or low-cost, high-capacity storage.

The PowerEdge R730 excels at a wide range of very demanding workloads for mid-sized and large enterprises, such as data warehouses, e-commerce, virtual desktop infrastructure (VDI), databases and high-performance computing (HPC) as a data node. When configured with 3.5" drives, the R730 provides up to 48TB of rapidly accessed storage for databases, business intelligence and HPC applications.

## Deliver peak performance

Drive peak compute performance across a variety of workloads with the Intel® Xeon® processor E5-2600 v3 product family and state-of-the-art DDR4 memory. Boost data access for applications with up to 16 x 12Gbps SAS drives and high-performance dual RAID. Take advantage of advanced accelerators and GPUs to maximize performance in HPC, VDI and imaging environments.

## Discover greater versatility

With 24 DIMMs of high-capacity, low-power DDR4 memory, seven PCI Express® (PCIe) 3.0 expansion slots and highly scalable local storage, the R730 is extremely flexible. Create a dense, resource-rich virtualization environment with up to 16 2.5" drives. Combine that with the R730's GPU capability to save infrastructure costs and consolidate management operations in a scalable and centralized virtual desktop environment. The GPU option also makes the R730 an excellent choice as a mid-range medical imaging solution.

## Maximize operational efficiency

PowerEdge servers let you construct and manage highly efficient infrastructures for data centers and small businesses. Accelerate time-to-production with automated deployment processes that use fewer manual steps and reduce the potential for error. Improve IT productivity with innovative at-the-server management tools like iDRAC Direct and iDRAC Quick Sync to deliver in-depth system health status and speed deployment. Optimize data center energy usage with improved performance-per-watt and more granular control of power and cooling.

## Innovative management with intelligent automation

The Dell OpenManage systems management portfolio includes innovative solutions that simplify and automate essential server lifecycle management tasks – making IT operations more efficient and Dell servers the most productive, reliable and cost effective. Leveraging the incomparable agent-free capabilities of the PowerEdge embedded integrated Dell Remote Access Controller (iDRAC) with Lifecycle Controller technology, server deployment, configuration and updates are streamlined across the OpenManage portfolio and through integration with third-party management solutions.

Monitoring and control of Dell and third-party data center hardware is provided by OpenManage Essentials and with anytime, anywhere mobile access, through OpenManage Mobile. OpenManage Essentials now also delivers Server Configuration Management capabilities that automate one-many PowerEdge bare-metal server and OS deployments, quick and consistent replication of configurations and ensure compliance to a predefined baseline with automated drift detection.

## PowerEdge R730

- Latest Intel Xeon processor E5-2600 v3 product family with up to 18 cores
- Up to 24 DIMMs of high-capacity DDR4 memory
- Up to 7 PCIe 3.0 expansion slots
- Up to 4 internal GPU accelerators

Feature	PowerEdge R730 technical specification
Form factor	2U rack
Processor	Intel® Xeon® processor E5-2600 v3 product family
Processor sockets	2
Dimensions	H: 8.73 cm (3.44 in.) x W: 44.40 cm (17.49 in.) x D: 68.40 cm (26.92 in.)
Cache	2.5MB per core; core options: 4, 6, 8, 10, 12, 14, 16, 18
Chipset	Intel C610 series chipset
Memory <sup>1</sup>	Up to 768GB (24 DIMM slots): 4GB/8GB/16GB/32GB DDR4 up to 2133MT/s
I/O slots	Up to 7 x PCIe 3.0 plus dedicated PERC slot
RAID controllers	<b>Internal controllers:</b> PERC S130 (SW RAID), PERC H330, PERC H730, PERC H730P <b>External HBAs (RAID):</b> PERC H830 <b>External HBAs (non-RAID):</b> 12Gbps SAS HBA
Drive bays	<b>Internal hard drive bay and hot-plug backplane:</b> Up to 16 x 2.5" HDD: SAS, SATA, nearline SAS SSD: SAS, SATA Up to 8 x 3.5" HDD: SAS, SATA, nearline SAS SSD: SAS, SATA
Maximum internal storage <sup>1</sup>	HDD: SAS, SATA, nearline SAS SSD: SAS, SATA 16 x 2.5" – up to 29TB via 1.8TB hot-plug SAS hard drives 8 x 3.5" – up to 48TB <sup>2</sup> via 6TB hot-plug NL SAS hard drives
Embedded NIC	4 x 1GbE, 2 x 10+2GbE, 4 x 10GbE NDC
Power supplies	Titanium efficiency 750W AC power supply; 1100W DC power supply; Platinum efficiency 495W, 750W, 1100W AC power supply;
Availability	ECC memory, hot-plug hard drives, hot-plug redundant cooling, hot-plug redundant power, internal dual SD module, single device data correction (SDDC), spare rank, tool-less chassis, support for high availability clustering and virtualization, proactive systems management alerts, iDRAC8 with Lifecycle Controller
Remote management	iDRAC8 with Lifecycle Controller, iDRAC8 Express (default), iDRAC8 Enterprise (upgrade) 8GB vFlash media (upgrade), 16GB vFlash media (upgrade)
Systems management	IPMI 2.0 compliant Dell OpenManage Essentials Dell OpenManage Mobile Dell OpenManage Power Center Dell OpenManage Integrations: <ul style="list-style-type: none"> <li>Dell OpenManage Integration Suite for Microsoft® System Center</li> <li>Dell OpenManage Integration for VMware® vCenter™</li> </ul> Dell OpenManage Connections: <ul style="list-style-type: none"> <li>HP Operations Manager, IBM Tivoli® Netcool® and CA Network and Systems Management</li> <li>Dell OpenManage Plug-in for Oracle® Database Manager</li> </ul>
Rack support	ReadyRails™ II sliding rails for tool-less mounting in 4-post racks with square or unthreaded round holes or tooled mounting in 4-post threaded hole racks, with support for optional tool-less cable management arm.
Operating systems	Microsoft Windows Server® 2008/2012 SP2, x86/x64 (x64 includes Hyper-V®) Microsoft Windows Server 2008/2012 R2, x64 (includes Hyper-V) Microsoft Windows HPC Server 2008 Novell® SUSE® Linux Enterprise Server Red Hat® Enterprise Linux <b>Optional embedded hypervisors:</b> Citrix® XenServer® VMware vSphere® ESXi™ Microsoft Windows Server 2012, includes Hyper-V For more information on the specific versions and additions, visit <a href="http://Dell.com/OSsupport">Dell.com/OSsupport</a> .
OEM-ready version available	From bezel to BIOS to packaging, your servers can look and feel as if they were designed and built by you. For more information, visit <a href="http://Dell.com/OEM">Dell.com/OEM</a> .
Recommended support	Dell ProSupport Plus for critical systems or Dell ProSupport for premium hardware and software support for your PowerEdge solution. Consulting and deployment offerings are also available. Contact your Dell representative today for more information. Availability and terms of Dell Services vary by region. For more information, visit <a href="http://Dell.com/ServiceDescriptions">Dell.com/ServiceDescriptions</a> .

<sup>1</sup> GB equals 1 billion bytes and TB equals 1 trillion bytes; actual capacity varies with preloaded material and operating environment and will be less.

<sup>2</sup> Post RTS.

## End-to-end technology solutions

Reduce IT complexity, lower costs and eliminate inefficiencies by making IT and business solutions work harder for you. You can count on Dell for end-to-end solutions to maximize your performance and uptime. A proven leader in Servers, Storage and Networking, Dell Enterprise Solutions and Services deliver innovation at any scale. And if you're looking to preserve cash or increase operational efficiency, Dell Financial Services™ has a wide range of options to make technology acquisition easy and affordable. Contact your [Dell Sales Representative](#) for more information.\*\*

Learn More at [Dell.com/PowerEdge](http://Dell.com/PowerEdge).

©2014 Dell Inc. All rights reserved. Dell, the DELL logo, the DELL badge, PowerEdge, and OpenManage are trademarks of Dell Inc. Other trademarks and trade names may be used in this document to refer to either the entities claiming the marks and names or their products. Dell disclaims proprietary interest in the marks and names of others. This document is for informational purposes only. Dell reserves the right to make changes without further notice to any products herein. The content provided is as is and without express or implied warranties of any kind. \*\*Leasing and financing provided and serviced by Dell Financial Services L.L.C. or its affiliate or designee ("DFS") for qualified customers. Offers may not be available or may vary in certain countries. Where available, offers may be changed without notice and are subject to product availability, credit approval, execution of documentation provided by and acceptable to DFS, and may be subject to minimum transaction size. Offers not available for personal, family or household use. Dell and the DELL logo are trademarks of Dell Inc.





# PowerEdge R730xd

An exceptionally flexible and scalable, two-socket 2U rack server that delivers high-performance processing and a broad range of workload-optimized local storage possibilities, including hybrid tiering.

Designed with an incredible range of configurability, the PowerEdge R730xd meets the needs of many different workloads with the latest Intel® Xeon® processor E5-2600 v3 product family, 24 DIMMs of high-performance DDR4 memory and a broad range of local storage options.

## Drive peak performance

Accelerate application performance with the latest technologies and dynamic local storage. Scale quickly and easily with front-accessible devices, ranging from low-cost SATA hard drives to 1.8" ultra-fast, low-latency PowerEdge Express Flash NVMe PCIe SSDs. Use hybrid storage configurations to tailor the R730xd to your workload needs and implement tiered-storage efficiencies. Combine 24-drive capacity with dual- PERC capability to drive storage performance and take advantage of new Dell caching technologies to boost application performance even more.

## Discover greater versatility

Unlike previous PowerEdge servers, the R730xd can be tailored for application performance by mixing high-speed 1.8" SSDs and low-cost, high-capacity 3.5" hard drives in a single hybrid chassis, enabling accelerated data access through in-server storage tiering.

- In its 24-drive, dual-PERC configuration, the R730xd can be an excellent database server delivering more than one million IOPS performance.
- Combine 26 drives with 24 DIMMs of memory and six PCI Express® (PCIe) expansion slots to provide a resource-rich virtualization environment.
- With up to four ultra-fast, ultra-low latency Express Flash NVMe PCIe SSDs, the R730xd can boost performance on critical workloads and share the cache with other server.
- In its low-cost 16 x 3.5" drive configuration with up to 100TB capacity, the R730xd is an excellent Microsoft® SharePoint® and Exchange® server for unified communications and collaboration (UC&C) and delivers the scale-out storage efficiency demanded by today's XaaS providers, Hadoop/big data users and co-location hosting.

## Maximize operational efficiency

PowerEdge servers let you construct and manage highly efficient infrastructures for data centers and small businesses. Accelerate time-to-production with automated deployment processes that use fewer manual steps and reduce human error. Improve IT productivity in the data center with

innovative at-the-server management tools, like iDRAC Quick Sync and iDRAC Direct to deliver in-depth system health status and speed deployment. Optimize data center energy usage with improved performance-per-watt and more granular control of power and cooling.

## Innovative management with intelligent automation

The Dell OpenManage systems management portfolio includes innovative solutions that simplify and automate essential server lifecycle management tasks — making IT operations more efficient and Dell servers the most productive, reliable and cost effective. Leveraging the incomparable agent-free capabilities of the PowerEdge embedded integrated Dell Remote Access Controller (iDRAC) with Lifecycle Controller technology, server deployment, configuration and updates are streamlined across the OpenManage portfolio and through integration with third-party management solutions.

Monitoring and control of Dell and third-party data center hardware is provided by OpenManage Essentials and with anytime, anywhere mobile access, through OpenManage Mobile. OpenManage Essentials also delivers Server Configuration Management capabilities that automate one-to-many PowerEdge bare-metal server and OS deployments, quick and consistent replication of configurations and ensure compliance to a predefined baseline with automated drift detection.

## PowerEdge R730xd

- Latest Intel Xeon E5-2600 v3 processors — up to 18 cores
- Up to 24 DIMMs DDR4 memory
- 6 distinct storage configurations
- Up to 6 PCIe 3.0 expansion slots
- Supports up to 4 Express Flash NVMe PCIe SSDs

Feature	PowerEdge R730xd technical specification
Form factor	2U rack
Processor	Intel® Xeon® processor E5-2600 v3 product family
Processor sockets	2
Dimensions	H: 8.73 cm (3.44 in.) x W: 44.40 cm (17.49 in.) x D: 68.40 cm (26.92 in.)
Cache	2.5MB per core; core options: 4, 6, 8, 10, 12, 14, 16, 18
Chipset	Intel C610 series chipset
Memory <sup>1</sup>	Up to 768GB (24 DIMM slots): 4GB/8GB/16GB/32GB DDR4 up to 2133MT/s
I/O slots	Up to 6 x PCIe 3.0 slots plus dedicated RAID card slot
RAID controllers	<b>Internal controllers:</b> PERC S130 (SW RAID), PERC H330, PERC H730, PERC H730P <b>External HBAs (RAID):</b> PERC H830 <b>External HBAs (non-RAID):</b> 12Gbps SAS HBA
Drive bays	<b>Internal hard drive bay and hot-plug backplane:</b> Up to 16 x 3.5" SAS, SATA, nearline SAS, SSD + 2 x 2.5" drives Up to 18 x 1.8" SAS, SATA, nearline SAS, SSD drives + 8 x 3.5" SAS, SATA, nearline SAS, SSD drives, + 2 x 2.5" HDD Up to 26 x 2.5" SAS, SATA, nearline SAS, SSD, PCIe SSD drives
Maximum internal storage <sup>1</sup>	SAS, SATA, nearline SAS, SSD, PCIe SSD: Up to 68.5TB with 18 x 1.8" 960GB SATA SSD + 8 x 3.5" 1.8TB SAS HDD Up to 47.5TB with 24 x 2.5" 1.8TB hot-plug SAS HDD + 2 x 2.5" 1.8TB hot-plug SAS HDD Up to 99.6TB with 12 x 3.5 6TB NL SAS HDD or SSD +4 x 3.5 6TB SAS + 2 x 2.5 1.8TB SAS HDD or SSD
Embedded NIC	4 x 1GbE, 2x10+2GbE, 4 x 10GbE NDC
Power supplies	Titanium efficiency 750W AC power supply; 1100W DC power supply; Platinum efficiency 495W, 750W, 1100W AC power supply;
Availability	ECC memory, hot-plug hard drives, hot-plug redundant cooling, hot-plug redundant power, internal dual SD module, single device data correction (SDDC), spare rank, tool-less chassis, support for high availability clustering and virtualization, proactive systems management alerts, iDRAC8 with Lifecycle Controller
Remote management	iDRAC8 with Lifecycle Controller, iDRAC8 Express (default), iDRAC8 Enterprise (upgrade) 8GB vFlash media (upgrade), 16GB vFlash media (upgrade)
Systems management	IPMI 2.0 compliant Dell OpenManage Essentials Dell OpenManage Mobile Dell OpenManage Power Center Dell OpenManage Integrations: <ul style="list-style-type: none"> <li>Dell OpenManage Integration Suite for Microsoft® System Center</li> <li>Dell OpenManage Integration for VMware® vCenter™</li> </ul> Dell OpenManage Connections: <ul style="list-style-type: none"> <li>HP Operations Manager, IBM Tivoli® Netcool® and CA Network and Systems Management</li> <li>Dell OpenManage Plug-in for Oracle® Database Manager</li> </ul>
Rack support	ReadyRails™ II sliding rails for tool-less mounting in 4-post racks with square or unthreaded round holes or tooled mounting in 4-post threaded hole racks, with support for optional tool-less cable management arm.
Operating systems	Microsoft Windows Server® 2008/2012 SP2, x86/x64 (x64 includes Hyper-V®) Microsoft Windows Server 2008/2012 R2, x64 (includes Hyper-V) Microsoft Windows HPC Server 2008 Novell® SUSE® Linux Enterprise Server Red Hat® Enterprise Linux <b>Optional embedded hypervisors:</b> Citrix® XenServer® VMware vSphere® ESXi™ For more information on the specific versions and additions, visit <a href="http://Dell.com/OSsupport">Dell.com/OSsupport</a> .
OEM-ready version available	From bezel to BIOS to packaging, your servers can look and feel as if they were designed and built by you. For more information, visit <a href="http://Dell.com/OEM">Dell.com/OEM</a> .
Recommended support	Dell ProSupport Plus for critical systems or Dell ProSupport for premium hardware and software support for your PowerEdge solution. Consulting and deployment offerings are also available. Contact your Dell representative today for more information. Availability and terms of Dell Services vary by region. For more information, visit <a href="http://Dell.com/ServiceDescriptions">Dell.com/ServiceDescriptions</a> .

<sup>1</sup> GB equals 1 billion bytes and TB equals 1 trillion bytes; actual capacity varies with preloaded material and operating environment and will be less.

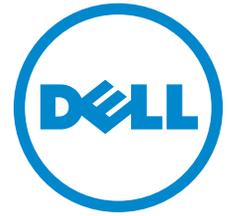
## End-to-end technology solutions

Reduce IT complexity, lower costs and eliminate inefficiencies by making IT and business solutions work harder for you. You can count on Dell for end-to-end solutions to maximize your performance and uptime. A proven leader in Servers, Storage and Networking, Dell Enterprise Solutions and Services deliver innovation at any scale. And if you're looking to preserve cash or increase operational efficiency, Dell Financial Services™ has a wide range of options to make technology acquisition easy and affordable. Contact your [Dell Sales Representative](#) for more information.\*\*

Learn More at [Dell.com/PowerEdge](http://Dell.com/PowerEdge).

©2014 Dell Inc. All rights reserved. Dell, the DELL logo, the DELL badge, PowerEdge, and OpenManage are trademarks of Dell Inc. Other trademarks and trade names may be used in this document to refer to either the entities claiming the marks and names or their products. Dell disclaims proprietary interest in the marks and names of others. This document is for informational purposes only. Dell reserves the right to make changes without further notice to any products herein. The content provided is as is and without express or implied warranties of any kind. \*\*Leasing and financing provided and serviced by Dell Financial Services L.L.C. or its affiliate or designee ("DFS") for qualified customers. Offers may not be available or may vary in certain countries. Where available, offers may be changed without notice and are subject to product availability, credit approval, execution of documentation provided by and acceptable to DFS, and may be subject to minimum transaction size. Offers not available for personal, family or household use. Dell and the DELL logo are trademarks of Dell Inc.





## PowerEdge M630

An ultra-efficient blade server combining up to 36 cores of Intel processing power and 24 DIMMs of DDR4 memory in a dense, easy-to-manage platform ideal for data center workloads.

### Easily scale your workload capacity

Deliver the compute power your demanding applications require with the PowerEdge M630 blade server, a member of the 13th generation of PowerEdge servers. Designed for use with the PowerEdge M1000e blade enclosure and PowerEdge VRTX converged infrastructure, the M630 offers exceptional scalability in environments ranging from IT as a service (XaaS) providers and private clouds to remote and branch offices.

The Intel® Xeon® processor E5-2600 v3 product family offers the processing cycles and threads to help increase virtualization performance, allowing the M630 to deliver more, larger and higher-performing virtual machines with help from more cores and up to 15 percent greater memory bandwidth.

### Drive peak performance

Unleash the workload capabilities of your converged infrastructure with the ample memory capacity of the M630's 24 DDR4 DIMM slots and up to four 1.8" SSDs — twice the number of flash drives per server than previous generations. This extreme memory density and high-bandwidth memory makes the M630 ideal for workloads like high-performance computing (HPC).

### Tailor your blades to your business

The M630 provides flexibility to optimize in-server storage and I/O performance, allowing you to tailor your servers to your workloads today and tomorrow. With a range of drive options from two 2.5" hard drives or Express Flash PCIe SSDs to up to four 1.8" SSDs, it's easy to configure in-server storage to meet your needs. For network flexibility, the M630 features Dell Select Network Adapters. These modular integrated NICs offer you a choice of fabric, speed and vendor, allowing you to precisely address workload bandwidth requirements and enable rapid access to the storage resources your server or cloud requires— NAS or SAN.

### Innovative management with intelligent automation

The Dell OpenManage systems management portfolio simplifies and automates server lifecycle management — making IT operations more efficient and Dell servers the most productive, reliable and cost effective. The capabilities of Dell's agent-free integrated Dell Remote Access Controller (iDRAC) with Lifecycle Controller make server deployment, configuration and updates more automated and efficient than ever. Dell M630 servers also benefit from the Chassis Management Controller (CMC), an embedded component that provides management of the converged infrastructure in every chassis and monitors multiple chassis at once via a web browser.

Both iDRAC and CMC technologies are leveraged by the rest of the OpenManage portfolio. OpenManage Essentials provides enterprise-level monitoring and control of Dell and third-party data center hardware, and works with OpenManage Mobile to provide similar information on smart phones. OpenManage Essentials also delivers server configuration management capabilities that automate bare-metal server and OS deployments, replication of configurations and ensures ongoing compliance with set system configurations.

## PowerEdge M630

- Up to 58 cores per U with latest Intel Xeon processor E5-2600 v3 product family
- 24 DIMMs of DDR4 memory
- Up to four 1.8" SSDs with double the storage bandwidth

Feature	PowerEdge M630 technical specification
Form factor	Half-height blade with up to 16 nodes in a 10U M1000e chassis; up to four nodes in a VRTX chassis
Processor	Intel® Xeon® processor E5-2600 v3 product family
Processor sockets	2
Dimensions	H: 197.9 cm, W: 50.35 cm, D: 544.32 cm
Cache	2.5MB per core; core options: 4, 6, 8, 10, 12, 16, 18
Chipset	Intel C610 series chipset
Memory <sup>1</sup>	Up to 768TB (24 DIMM slots): 4GB/8GB/16GB/32GB DDR4 up to 1866MT/s
I/O mezzanine cards	2 x PCIe 3.0 (x8) mezzanine cards
RAID controllers	<b>Internal controllers:</b> PERC S130 (SW RAID), PERC H330, PERC H730, PERC H730P
Primary storage	<b>Hot-plug hard drive options:</b> PowerEdge Express Flash NVMe PCIe SSD, SATA HDD/SSD or SAS HDD/SSD 4 x 1.8" SSD. 2 x 2.5" PCIe SSDs
I/O options	<p><b>Dell Select Network Adapter (NDC) options:</b> Broadcom® 57810S-k dual-port 10Gb KR Blade NDC Broadcom 57840 quad-port KR Blade Converged NDC Intel X520-k dual-port 10Gb KR Blade NDC QLogic® QMD8262-k dual-port 10Gb NDC</p> <p><b>Fibre Channel:</b> Emulex® LPe1205-M (FC8) Emulex LPm16002B-D (FC16) QLogic QME2572 (FC8) QLogic QME2662 (FC16)</p> <p><b>1Gb/10Gb adapters:</b> Broadcom 57810S-k dual-port 10Gb KR Brocade® BR1741M-k dual-port 10Gb CNA Broadcom 5719 quad-port 1Gb Intel Ethernet X520-K dual-port 10Gb Intel I350 quad-port 1Gb QLogic QME8262-k dual-port 10Gb KR CNA</p> <p><b>InfiniBand:</b> Mellanox® ConnectX®-3 dual-port FDR10 Mellanox ConnectX-3 dual-port FDR Mellanox ConnectX-3 dual-port QDR Mellanox ConnectX-3 dual-port 10GbE KR blade</p>
Power supplies	Chassis level – PowerEdge M1000e 2700W Platinum and 3000W Titanium PSU options
Video card	Video type Matrox® G200 (integrated with iDRAC8) Video memory: 16MB shared with iDRAC8 application memory
Systems management	<p><b>Systems management:</b> IPMI 2.0 compliant; Dell OpenManage Essentials; Dell OpenManage Mobile; Dell OpenManage Power Center</p> <p><b>Remote management</b> iDRAC8 with Lifecycle Controller, iDRAC8 Express (default), iDRAC8 Enterprise (upgrade) 8GB vFlash media (upgrade), 16GB vFlash media (upgrade)</p> <p><b>Dell OpenManage Integrations:</b></p> <ul style="list-style-type: none"> <li>• Dell OpenManage Integration Suite for Microsoft® System Center</li> <li>• Dell OpenManage Integration for VMware® vCenter™</li> </ul> <p><b>Dell OpenManage Connections:</b></p> <ul style="list-style-type: none"> <li>• HP Operations Manager, IBM Tivoli® Netcool® and CA Network and Systems Management</li> <li>• Dell OpenManage Plug-in for Oracle® Database Manager</li> </ul>
Operating systems	<p>Microsoft Windows Server® 2008/2012 R2 (with Hyper-V® enabled) Microsoft Windows Server 2012 (with Hyper-V enabled) Microsoft Windows Server 2008/2012 Datacenter (with Hyper-V enabled) Microsoft Windows Server 2008 R2 SP1 (with Hyper-V enabled) Microsoft Windows Server 2008 R2 SP2 x64/x86 (with Hyper-V enabled) Novell® SUSE® Linux Enterprise Server Red Hat® Enterprise Linux</p> <p><b>Optional hypervisors:</b> Citrix® XenServer® VMware vSphere® ESXi™ For more information on the specific versions and additions, visit <a href="http://Dell.com/OSsupport">Dell.com/OSsupport</a>.</p>
Recommended support	Dell ProSupport Plus for critical systems or Dell ProSupport for premium hardware and software support for your PowerEdge solution. Consulting and deployment offerings are also available. Contact your Dell representative today for more information. Availability and terms of Dell Services vary by region. For more information, visit <a href="http://Dell.com/ServiceDescriptions">Dell.com/ServiceDescriptions</a> .

For more information about the Dell blade solution, see the [PowerEdge M1000e Technical Guide](#) or the [M1000e Blade Chassis Spec Sheet](#). For more information about the VRTX converged infrastructure platform, see the [PowerEdge VRTX Technical Guide](#) or [PowerEdge VRTX Spec Sheet](#).

<sup>1</sup> GB equals 1 billion bytes and TB equals 1 trillion bytes; actual capacity varies with preloaded material and operating environment and will be less.

## End-to-end technology solutions

Reduce IT complexity, lower costs and eliminate inefficiencies by making IT and business solutions work harder for you. You can count on Dell for end-to-end solutions to maximize your performance and uptime. A proven leader in Servers, Storage and Networking, Dell Enterprise Solutions and Services deliver innovation at any scale. And if you're looking to preserve cash or increase operational efficiency, Dell Financial Services™ has a wide range of options to make technology acquisition easy and affordable. Contact your [Dell Sales Representative](#) for more information.\*\*

Learn More at [Dell.com/PowerEdge](http://Dell.com/PowerEdge).

©2014 Dell Inc. All rights reserved. Dell, the DELL logo, the DELL badge, PowerEdge, and OpenManage are trademarks of Dell Inc. Other trademarks and trade names may be used in this document to refer to either the entities claiming the marks and names or their products. Dell disclaims proprietary interest in the marks and names of others. This document is for informational purposes only. Dell reserves the right to make changes without further notice to any products herein. The content provided is as is and without express or implied warranties of any kind. \*\*Leasing and financing provided and serviced by Dell Financial Services L.L.C. or its affiliate or designee ("DFS") for qualified customers. Offers may not be available or may vary in certain countries. Where available, offers may be changed without notice and are subject to product availability, credit approval, execution of documentation provided by and acceptable to DFS, and may be subject to minimum transaction size. Offers not available for personal, family or household use. Dell and the DELL logo are trademarks of Dell Inc.

