









# POWEREDGE RACK SERVERS

Dell EMC PowerEdge rack servers help you build a modern infrastructure that minimizes IT challenges and drives business success. Choose from a complete portfolio of 1-2- and 4-socket rack servers to deliver high core density for your traditional applications, virtualization and cloud-native workloads. Enhanced memory speeds, faster NVMe storage options\* and BIOS tuning allows you match performance to your workload for ultimate efficiency. Take control of your entire IT lifecycle with intelligent automation, so you can focus on moving your business forward. Integrated security helps protect your data center from unauthorized changes and cyber-attacks. Future-proof your data center with the worry-free PowerEdge rack portfolio.

	R940	R830	R740xd
			
Specifications	Scalable performance in just 3U.	Designed for scalable database applications and dense virtualization.	Ideal for SDS, service providers or data-set processing.
Processor	Up to four Intel® Xeon® Scalable processors	Up to four Intel Xeon E5 4600 v4 processors	Up to two Intel Xeon Scalable processors
Memory	48 DDR4 DIMM slots, 6TB max, speeds up to 2666MT/s	48 DDR4 DIMM slots, 3TB max, speeds up to 2400MT/s	24 DDR4 DIMM slots, 3TB max, speeds up to 2666MT/s
Disk	Up to 24 x 2.5" drives	Up to 16 x 2.5" drives	Up to 32 x 2.5" or 18x 3.5" total drives
NVMe	Up to 12 NVMe drives	X	Up to 24 NVMe drives
PCIe slots	Up to 13 x Gen3 slots, (3x8+10x16)	Up to 7 x Gen3 slots (2x16+1x8+3x8)	Up to 8 x Gen3 slots (4x16)
GPU support	X	X	Up to 3 x 300W or 6 x 150W
Rack height	3U	2U	2U
Security	TPM 1.2/2.0 optional Cryptographically signed firmware Chassis Intrusion Alert Hardware Root of Trust Secure Boot System Lockdown Secure Erase	TPM 1.2/2.0 optional Cryptographically signed firmware Chassis Intrusion Alert Secure Boot	TPM 1.2/2.0 optional Cryptographically signed firmware Chassis Intrusion Alert Hardware Root of Trust Secure Boot System Lockdown Secure Erase

	R740	R640	R540
			
Specifications	The optimum balance of resources to power the most demanding environments.	Dense scale-out data center computing.	Ideal balance of resources and affordability.
Processor	Up to two Intel Xeon Scalable processors	Up to two Intel Xeon Scalable processors	Up to two Intel Xeon Scalable processors
Memory	24 DDR4 DIMM slots, 1.5TB max, speeds up to 2666MT/s	24 DDR4 DIMM slots, 1.5TB max, speeds up to 2666MT/s	16 DDR4 DIMM slots, 512GB max, speeds up to 2666MT/s
Disk	Up to 16 x 2.5" or 8 x 3.5" drives	Up to 12 x 2.5" or 4 x 3.5" drives	Up to 14 x 3.5" drives
NVMe	X	Up to 8 x 2.5" NVMe drives	X
PCIe slots	Up to 8 x Gen3 slots, (4x16)	Up to 3 x Gen3 slots (all x16)	Up to 5 x Gen3 slots (2 x 16)
GPU support	Up to 3 x 300W or 6 x 150W	X	X
Rack height	2U	1U	2U
Security	TPM 1.2/2.0 optional Cryptographically signed firmware Chassis Intrusion Alert Hardware Root of Trust Secure Boot System Lockdown Secure Erase	TPM 1.2/2.0 optional Cryptographically signed firmware Chassis Intrusion Alert Hardware Root of Trust Secure Boot System Lockdown Secure Erase	TPM 1.2/2.0 optional Cryptographically signed firmware Chassis Intrusion Alert Hardware Root of Trust Secure Boot System Lockdown Secure Erase

	R440	R330	R230
			
Specifications	Optimized for dense, scale-out computing.	One-socket rack server for SMB and ROBO.	One-socket rack server for SMB and ROBO.
Processor	Up to two Intel® Xeon® Scalable processors	Up to one Intel Xeon E3-1200 v6, or Intel Pentium® or Intel Core i3® or Intel Celeron® processor	Up to one Intel Xeon E3-1200 v6 or Intel Pentium or Intel Core i3 or Intel Celeron processor
Memory	16 DDR4 DIMM slots, 512GB max, speeds up to 2666MT/s	4 DDR4 DIMM slots, 64GB max, speeds up to 2400MT/s	4 DDR4 DIMM slots, 64GB max, speeds up to 2400MT/s
Disk	Up to 10 x 2.5" or 4 x 3.5" drives	up to 8 x 2.5" or 4 x 3.5" drives	Up to 4 x 2.5" or 2 x 3.5" drives
NVMe	Up to 4 NVMe drives	X	X
PCIe slots	Up to 2 x Gen3 slots (x16)	Up to 2 x Gen3 slots	Up to 2 x Gen3 slots
GPU support	X	X	X
Rack height	1U	1U	1U
Security	TPM 1.2/2.0 optional Cryptographically signed firmware Chassis Intrusion Alert Hardware Root of Trust Secure Boot System Lockdown Secure Erase	TPM 1.2/2.0 optional Cryptographically signed firmware Chassis Intrusion Alert Secure Boot	TPM 1.2/2.0 optional Cryptographically signed firmware Chassis Intrusion Alert Secure Boot

**“Now our application provisioning is much faster with the stronger virtualization capabilities we’ve gotten from the advanced Dell EMC PowerEdge rack servers. Also, user experiences have improved, especially in peak times like registration and grading, while IT staff gained efficiency and flexibility with the Dell EMC solution.”**

*- Alejandro Liz, Project Coordinator, Pontificia Universidad Católica Madre y Maestra*

**“With OpenManage Essentials, I can take care of our IT needs in about 20 percent of the time it took previously. It helps me spend less time actively managing all my servers and more time on strategic tasks that may not relate directly to IT.”**

*- Richard Sparkman, IT Director, Shelby American*

**Researchers can ask questions about their data they couldn’t before, with workloads accelerated by up to 1,000 percent by Dell EMC servers.”**

*- Niall Gaffney, Director of Data Intensive Computing, Texas Advanced Computing Center*

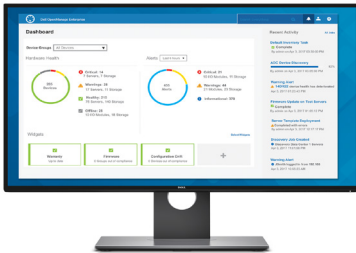
# Dell EMC Solutions

When you buy a Dell EMC server, you get more than just hardware. You get access to IT solutions end-to-end. Dell and EMC bring together industry-leading expertise into a common platform to help you transform your data center. Dell EMC can deliver PowerEdge technology at any level of integration – from a best-in-breed platform, to a pre-integrated fully turnkey hybrid cloud implementation or any step in-between. Combining the PowerEdge server infrastructure with Dell Services and Financial Solutions allows you to modernize your data center faster, more affordably and with less risk.



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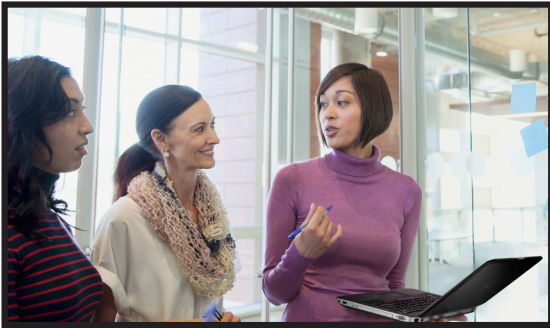
## OpenManage Systems Management



Spend less time on routine maintenance and stay focused on your business-critical priorities, thanks to the intelligent automation capabilities of Dell EMC PowerEdge servers. Dell EMC OpenManage™ System Management means your servers can take care of themselves, with zero touch configuration, proactive support notifications and easy system erase when it is time for systems to be retired or redeployed. With comprehensive agent-free server management, you can utilize consistent methods to manage servers regardless of the installed OS and workloads.

## Dell EMC Services

To fully implement a modern infrastructure, organizations require reliable, comprehensive IT services to drive IT transformations, accelerate adoption of new technologies and maximize productivity.

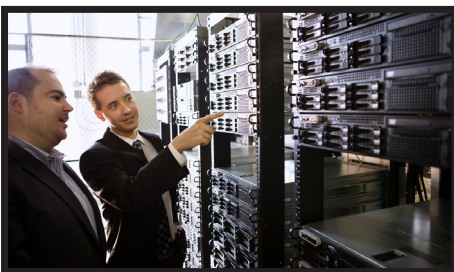


**Architect:** Get started with our IT Transformation Workshop to accelerate your transformation to becoming an agile business partner and broker of services to the business.

**Implement:** The ProDeploy Enterprise Suite helps you get more out of your new technology starting day one. Trust Dell EMC experts to lead deployments from basic hardware installations through planning, configuration and complex integrations.

**Manage:** The ProSupport Enterprise Suite ensures 24x7 access to elite ProSupport engineers along with automated, proactive and predictive tools enabled by SupportAssist. Our personalized service and preventative measures help you get ahead of problems before they happen.

## Dell EMC Data Center Infrastructure



Dell EMC Data Center Infrastructure (DCI) simplifies and manages critical infrastructure in and around the data center serving the needs of your business. A complete portfolio of racks, power and cooling solutions lets you scale as your data center needs grow.



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