

# POWEREDGE R6525

## Ideal for High Performance Dense-Computing environments



The Dell EMC PowerEdge R6525 Rack Server is a highly configurable, dual-socket 1U rack server that delivers outstanding balanced performance and innovations for dense compute environments to address traditional and emerging workloads and applications.

### Deliver breakthrough performance, innovation and density for traditional and emerging workloads

The new Dell EMC PowerEdge R6525 is a highly configurable, dual-socket 1U rack server that delivers outstanding balanced performance and innovation for dense compute environments. It's ideal for traditional and emerging workloads and applications.

High-level features include:

- 64 processing cores and faster data transfer speeds with PCIe Gen 4
- Up to 3200MT/s memory speed to reduce latency and deliver faster response
- Multi GPU support to accelerate end user VDI performance
- Highest core count PE 1U server with cryptographic isolation between hypervisor and VMs

### Increase efficiency and accelerate operations with an automated infrastructure

The Dell EMC OpenManage™ systems management portfolio delivers an efficient and comprehensive solution for PowerEdge servers through tailored, automated, and repeatable processes.

- Automate server life cycle management with scripting via the iDRAC Restful API with Redfish conformance.
- Simplify and centralize one to many management with the OpenManage Enterprise console.
- Utilize the OpenManage Mobile app and PowerEdge Quick Sync 2 to easily manage servers using a phone or tablet.
- Resolve issues with up to 72% less IT effort using automated proactive and predictive technology from ProSupport Plus and SupportAssist.\*\*

### Fortify your data center with integrated security

Every PowerEdge server is designed with a cyber resilient architecture, integrating security deeply into every phase in the lifecycle, from design to retirement.

- Enhance security with platform enablement of AMD Secure Memory Encryption (SME) and Secure Encrypted Virtualization (SEV).
- Operate your workloads on a secure platform anchored by cryptographically trusted booting and silicon root of trust.
- Maintain server firmware safety with digitally signed firmware packages.
- Detect and remediate unauthorized or malicious change with drift detection and system lockdown.
- Securely and quickly wipe all data from storage media including hard drives, SSDs and system memory with System Erase.

### PowerEdge R6525

The PowerEdge R6525 provides a unique dense – 1U, dual-socket server - to address and scale traditional and emerging workloads like

- High Performance Computing (HPC)
- Virtual Desktop Infrastructure (VDI)
- Virtualization

\*\*Based on June 2018 Principled Technologies Report commissioned by Dell EMC, "Save time and IT effort resolving server hardware issues with ProSupport Plus and SupportAssist", compared to Basic Warranty without SupportAssist. Actual results will vary. Full report: <http://facts.pt/olccpk>

# PowerEdge R6525

Features	Technical Specification	
Processor	Two 2 <sup>nd</sup> Generation AMD EPYC™ Processors with up to 64 cores per processor	
Memory	Up to 32 x DDR4 Maximum RAM RDIMM 2 TB LRDIMM 4TB Max Bandwidth up to 3200 MT/S	
Availability	Hot plug redundant Hard drives, Fans, PSUs	
Controllers	PERC 10.5 – HBA345, H345, H745, H840, 12G SAS HBA Chipset SATA/SW RAID (S150): Yes	
Drive Bays	Front Bays Up to 4 x 3.5" hot plug SAS/SATA (HDD) Up to 8 x 2.5" hot plug SAS/SATA (HDD) Up to 12 x 2.5" (10 Front + 2 Rear) hot plug SAS/SATA/NVMe Optional: BOSS (2 x M.2)	
Power Supplies	800W Platinum 1400W Platinum 1100W Titanium	
Fans	Hot plug Fans	
Dimensions	Height: 44.45mm (1.75") Width: 434.0mm (17.1") Depth: 736.54mm (29") Weight: 21.5kg (47.39lbs)	
Rack Units	1U Rack Server	
Embedded mgmt	iDRAC9 iDRAC RESTful API with Redfish iDRAC Direct Quick Sync 2 BLE/wireless module	
Bezel	Optional LCD bezel or security bezel	
OpenManage™ SW	OpenManage Enterprise OpenManage Enterprise Power Manager OpenManage Mobile	
Integrations & Connections	OpenManage Integrations BMC Truesight Microsoft® System Center Redhat® Ansible® Modules VMware® vCenter™	OpenManage Connections IBM Tivoli® Netcool/OMNibus IBM Tivoli® Network Manager IP Edition Micro Focus® Operations Manager I Nagios® Core Nagios® XI
Security	Cryptographically signed firmware Secure Boot Secure Erase	Silicon Root of Trust System Lockdown TPM 1.2/2.0, TCM 2.0 optional
Embedded NIC	2 x 1 GbE LOM ports	
Networking Options (NDC)	OCP x16 Mezz 3.0 + 2 x 1GE LOM Gen4 SNAPI support for HDR	
GPU Options	Up to 2 Single-Wide GPU	

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Ports	<table><tr><td>Front Ports: 1 x Dedicated iDRAC direct micro-USB 1 x USB 2.0 1 x VGA</td><td>Rear Ports: 1 x Dedicated iDRAC network port 1 x Serial 1 x USB 3.0 1 x VGA</td></tr></table>	Front Ports: 1 x Dedicated iDRAC direct micro-USB 1 x USB 2.0 1 x VGA	Rear Ports: 1 x Dedicated iDRAC network port 1 x Serial 1 x USB 3.0 1 x VGA
Front Ports: 1 x Dedicated iDRAC direct micro-USB 1 x USB 2.0 1 x VGA	Rear Ports: 1 x Dedicated iDRAC network port 1 x Serial 1 x USB 3.0 1 x VGA		
PCIe	3 x Gen4 slots (x16) at 16GT/s, 2EMS slots at 25GT/s		
Operating Systems & Hypervisors	Canonical® Ubuntu® Server LTS Citrix® Hypervisor™ Microsoft® Windows Server® with Hyper-V Red Hat® Enterprise Linux SUSE® Linux Enterprise Server VMware® ESXi®		
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>		
Recommended services	ProSupport Plus with SupportAssist provides proactive and predictive support for critical systems. ProSupport provides comprehensive hardware and software support. Get more from your technology starting on day one with ProDeploy Enterprise Suite deployment offers. For more information, visit <a href="http://Dell.com/Services">Dell.com/Services</a> .		

### 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.\*\*