R6525 Spec Sheet



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

Features Technical Specification Processor Two 2" or 3" Generation AMD EPYC™ Processors with up to 64 cores per processor Memory Up to 32x DDR4 Mariamum RAM RDMM 2 TB LEDIMM 4TB Max Bandwidth up to 3200 MT/S Availability Hot plug redundant Hard drives, Fans, PSUs Controllers PERC 15 – HR36, H361, H174, H840, 12G SAS HBA PERC 11 – 1475, H755N Chapter SATASW RAID (S150): Yes Up to 4 x 3.7 hot plug SAS/SATA (HDD) Up to 12 x 2.5" (10 Front + 2 Rear) hot to 12 x 2.5" (10 Front + 2 Rear) hot plug FAS/SATA/MMe Optional Internat: 2 x M.2 (BOSS) Optional Rear: 2 x M.2 (BOSS-S2) Up to 12 x 2.5" (10 Front + 2 Rear) hot to 12 x 2.5" (10 Front + 2 Rear) hot to 12 x 2.5" (10 Front + 2 Rear) hot to 12 x 2.5" (10 Front + 2 Rear) hot plug FAS/SATA/MMe Optional Internat: 2 x M.2 (BOSS-S2) Up to 12 x 2.5" (10 Front + 2 Rear) hot to 12 x 2.5"	PowerEdge R6525			
Memory Maximum RAM Maximum RAM Rollmin 115 Max Bandwidth up to 3200 MT/S	Features	Technical Specification		
Maximum RAM ROIMM 2 TB LROIMM 4 TB Max Bank Art Roim Art Bank Art Roim Art Bank Art Roim Art Ro	Processor	Two 2 nd or 3 rd Generation AMD EPYC [™] Processors with up to 64 cores per processor		
PERC 10.5 – HBA345, H345, H745, H840, 12G SAS HBA PERC 11. H4756, H755N 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 Power Supplies 800W Platinum 1400W Platinum 150W Height: 28.8mm (1.7°) Weight: 21.8kg (48.00lbs) Rack Units 1 U Rack Server Embedded mgmt iDRAC Plate DiPAC RESTful API with Redfish iDRAC DiPace Quick Sync 2 BLE/wireless module Bezel OpenManage™ SW OpenManage Enterprise OpenManage Enterprise Power Manager OpenManage Mobile Integrations & Connections Microsoft* System Center Microsoft* System Center Redhat* Ausbie* Modules VMware* vCenter™ Secure Boot Secure Erase Embedded NIC 2 x 1 GbE LOM ports Networking Options (NOC) OCP x 16 Mezz 3.0 + 2 x 1 GE LOM OCP x 16 Mezz 3.0 + 2 x 1 GE LOM OPTIONAL PLAC Diptional Integration (NOC) OCP x 16 Mezz 3.0 + 2 x 1 GE LOM	Memory	Maximum RAM RDIMM 2 TB LRDIMM 4TB Max		
PERC 11 – H755, H755N Chipset SATA/SW RAID (S150): Yes Drive Bays Drive Bays Up to 4 x 3.5" hot plug SAS/SATA (HDD) Up to 8 x 2.5" for plug SAS/SATA (HDD) Up to 12 x 2.5" (10 Front + 2 Rear) hot plug SAS/SATA/NV/We Power Supplies 800W Platinum 1400W Plati	Availability	Hot plug redundant Hard drives, Fans, PSUs		
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 800W Platinum 1400W Platinum 1100W Titanium Pans Height: 42.8mm (1.7") Width: 434.0mm (17.1") Depth: 736.54mm (29") Weight: 21.8kg (48.06lbs) Rack Units 1U Rack Server Embedded mgmt IDRAC9 IDRAC RESTful API with Redfish IDRAC Direct Quick Sync 2 BLE/wireless module Bezel OpenManage Enterprise OpenManage Enterprise Power Manager OpenManage Enterprise Power Manager OpenManage Enterprise Power Manager OpenManage Mobile Integrations & Connections Microsoft' System Center Redhat' Ansible' Modules ∀Mware's ∨Center™ Embedded NIC 2 x 1 GbE LOM ports Networking Options (NOC) OCP x16 Mezz 3.0 + 2 x 1 GE LOM OCP x16 Mezz 3.0 + 2 x 1 GE LOM	Controllers	PERC 11 – H755, H755N		
Hat Jow Platinum 1100W Titanium 1100	Drive 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)		
Dimensions Height: 42.8mm (1.7") Width: 434.0mm (17.1") Depth: 736.54mm (29") Weight: 21.8kg (48.06lbs) Rack Units 1U Rack Server Embedded mgmt iDRAC9 iDRAC RESTful API with Redfish iDRAC Direct Quick Sync 2 BLE/wireless module Bezel OpenManage™ SW OpenManage Enterprise OpenManage Enterprise Power Manager OpenManage Mobile Integrations & Connections MC Truesight Microsoft® System Center Redhat® Ansible® Modules VMware® vCenter™ Whare® vCenter™ Security Cryptographically signed firmware Secure Boot Secure Erase Embedded NIC Z x 1 GbE LOM ports Networking Options (NOC) OCP x16 Mezz 3.0 + 2 x 1GE LOM	Power Supplies	1400W Platinum		
Width: 434.0mm (17.1") Depth: 736.54mm (29") Weight: 21.8kg (48.06lbs) Rack Units 1U Rack Server Embedded mgmt iDRAC9 iDRAC RESTful API with Redfish iDRAC Direct Quick Sync 2 BLE/wireless module Bezel OpenManage™ SW OpenManage Enterprise OpenManage Enterprise Power Manager OpenManage Mobile Integrations & Connections BMC Truesight Microsoft® System Center Redhat® Ansible® Modules VMware® ∨Center™ VMware® ∨Center™ Secure Boot Security Embedded NIC 2 x 1 GbE LOM ports Networking Options (NOC) OCP x16 Mezz 3.0 + 2 x 1GE LOM	Fans	Hot plug Fans		
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 Microsoft® System Center Redhat® Ansible® Modules VMware® vCenter™ Security Cryptographically signed firmware Secure Boot Secure Erase Embedded NIC DenManage Connections OpenManage Connections IBM Tivoli® Netcool/OMNIbus IBM Tivoli® Network Manager IP Edition Micro Focus® Operations Manager I Nagios® Core Nagios® XI Security 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 (NOC) OCP x16 Mezz 3.0 + 2 x 1GE LOM	Dimensions	Width: 434.0mm (17.1") Depth: 736.54mm (29")		
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 Conections Integrations & OpenManage Integrations BMC Truesight IBM Tivoli® Netcool/OMNIbus IBM Tivoli® Network Manager IP Edition Microsoft® System Center Redhat® Ansible® Modules VMware® vCenter™ Nagios® Core Nagios® XI Security Cryptographically signed firmware Secure Boot Secure Erase System Lockdown TPM 1.2/2.0, TCM 2.0 optional Embedded NIC 2 x 1 GbE LOM ports Networking Options (NOC) OCP x16 Mezz 3.0 + 2 x 1GE LOM	Rack Units	1U Rack Server		
OpenManage ™ SW OpenManage Enterprise OpenManage Connections OpenManage Enterprise Power Manager OpenManage Mobile OpenManage Connections BMC Truesight Microsoft® System Center Redhat® Ansible® Modules VMware® vCenter™ Security Cryptographically signed firmware Secure Boot Secure Erase Embedded NIC Networking Options (NOC) OpenManage Connections IBM Tivoli® Network Manager IP Edition Micro Focus® Operations Manager I Nagios® Core Nagios® XI Silicon Root of Trust System Lockdown TPM 1.2/2.0, TCM 2.0 optional	Embedded mgmt	iDRAC RESTful API with Redfish iDRAC Direct		
OpenManage Enterprise Power Manager OpenManage Mobile Integrations & Connections OpenManage Integrations BMC Truesight Microsoft® System Center Redhat® Ansible® Modules VMware® vCenter™ Security Cryptographically signed firmware Secure Boot Secure Erase Embedded NIC Networking Options (NOC) OpenManage Connections IBM Tivoli® Network Manager IP Edition Micro Focus® Operations Manager I Nagios® Core Nagios® XI Silicon Root of Trust System Lockdown TPM 1.2/2.0, TCM 2.0 optional	Bezel	Optional LCD bezel or security bezel		
Connections BMC Truesight Microsoft® System Center Redhat® Ansible® Modules VMware® vCenter™ 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 (NOC) OCP x16 Mezz 3.0 + 2 x 1GE LOM	OpenManage™ SW	OpenManage Enterprise Power Manager		
Secure Boot System Lockdown TPM 1.2/2.0, TCM 2.0 optional Embedded NIC 2 x 1 GbE LOM ports Networking Options (NOC) OCP x16 Mezz 3.0 + 2 x 1GE LOM		BMC Truesight Microsoft® System Center Redhat® Ansible® Modules	IBM Tivoli® Netcool/OMNIbus IBM Tivoli® Network Manager IP Edition Micro Focus® Operations Manager I Nagios® Core	
Networking Options (NOC) OCP x16 Mezz 3.0 + 2 x 1GE LOM	Security	Secure Boot	System Lockdown	
	Embedded NIC	2 x 1 GbE LOM ports		
GPU Options Up to 2 Single-Wide GPU	Networking Options (NOC)	OCP x16 Mezz 3.0 + 2 x 1GE LOM		
	GPU Options	Up to 2 Single-Wide GPU		

PowerEdge R6525		
Features	Technical Specification	
Ports	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 (optional) 1 x USB 3.0 1 x VGA
PCle	3 x Gen4 slots (x16) at 16GT/s	
Operating Systems & Hypervisors	Canonical® Ubuntu® Server LTS Citrix® HypervisorTM 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 Dell.com/OEM.	
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 Dell.com/ServiceDescriptions	
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 Dell.com/Services.	

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