POWEREDGE R7515

Powerful performance and scalability

The Dell EMC PowerEdge R7515 rack server is a highly scalable single-socket 2U rack server that delivers outstanding performance and TCO.

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

Data center evolution starts with modern platforms that scale easily and are optimized for application performance. The PowerEdge R7515 is built upon a scalable system architecture and provides choice and flexibility to meet performance demands. High-level specifications:

- 100%[1] more processing cores and faster data transfer speeds with PCIe Gen 4
- 20%[2] more memory performance for scale out environments
- Direct connect SAS/SATA/ NVMe for vSAN Ready Nodes
- High core count performance for highest VM density in a single-socket design
- Multi-die architecture offers low latency and floating-point performance for Big Data and Containers

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 R7515

The Dell EMC PowerEdge R7515 Rack Server is a highly scalable Single-socket 2U rack server that delivers performance and outstanding TCO. It is ideal for the following workloads and applications:

- Software-Defined Storage (SDS)
- Virtualization
- Data Analytics

[1] Based on Dell Internal analysis, August 2019
[2] Based on Dell Internal analysis, August 2019
**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 R7515

Features	Technical Specification	
Processor	One 2nd Generation AMD EPYC™ Processor with up to 64 cores	
Memory	DDR4: Up to 16 x DDR4 RDIMM (1TB), LRDIMM (2TB), bandwidth up to 3200 MT/S	
Controllers	HW RAID: PERC 9/10 - HBA330, H330, H730P, H740P, H840, 12G SAS HBA Chipset SATA/SW RAID(S150): Yes	
Drive Bays	**Front Bays** Up to 8 x3.5" Hot Plug SATA/SAS HDDs Up to 12x 3.5" hot-plug SAS/SATA HDDs Up to 24x 2.5" Hot Plug SATA/SAS/NVMe	**Rear Bays** Up to 2x 3.5" hot-plug SAS/SATA HDDs
Power Supplies	495W Platinum 750W Titanium 750W Platinum	1100W Platinum 1600W Platinum
Fans	Stanadard/High Peformance Fan N+1 Fan redunadancy	
Dimensions	Height: 86.8mm (3.42") Width: 434.0mm (17.09") Depth: 647.1mm (25.48") Weight: 27.3 kg (60.19 lb)	
Rack Units	2U Rack Server	
Embedded mgmt	iDRAC9 iDRAC RESTful API with Redfish iDRAC Direct Quick Sync 2 BLE/wireless module	
Bezel	Optional LCD or Security Bezel	
OpenManage™ SW	**Consoles** OpenManage Enterprise OpenManage Enterprise Power Manager **Mobility** OpenManage Mobile **Tools** Dell EMC RACADM CLI Dell EMC Repository Manager	Dell EMC System Update Dell EMC Server Update Utility Dell EMC Update Catalogs iDRAC Service Module IPMI Tool OpenManage Server Administrator OpenManage Storage Services
Integrations & Connections	OpenManage Integrations BMC Truesight Microsoft® System Center Redhat® Andible® 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		
Networking Options (NDC)	2 x 1GbE 2 x 10GbE BT 2 x 10GbE SFP+ 2 x 25GbE SFP28	
GPU Options:	Up to 4 Single-Wide GPU(T4); Up to 1 Full-Height FPGA	

PowerEdge R7515

Features	Technical Specification	
Ports	**Front Ports** 1 x Dedicated iDRAC direct micro-USB 2 x USB 2.0 1 x Video	**Rear Ports:** 2 x 1GbE 1 x Dedicated iDRAC network port 1 x Serial 2 x USB 3.0 1 x Video
PCIe	Up to 4: 2 x Gen3 slots (1 x8; 1 x16) 2 x Gen4 slots (2 x16)	
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.	

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.**

DELLEMC