

Dell EMC PowerEdge R7515 and R7415 server comparison matrix

The PowerEdge R7515 system has the following features compared with the R7415 system.

Feature	PowerEdge R7515	PowerEdge R7415
Processor	One 2nd Generation AMD EPYC™ processor with up to 64 cores	One AMD EPYC™ processor with up to 32 cores
Chipset	System on Chip (SoC) design	System on Chip (SoC) design
Accelerators	Up to 4 Single-Wide GPU (T4)	NA
	Up to 1 Full-Height FPGA	NA
Memory		
DIMM Speed	Up to 3200MT/s	Up to 2666MT/s
Memory Type	<ul style="list-style-type: none"> • RDIMM • LRDIMM 	<ul style="list-style-type: none"> • RDIMM • LRDIMM
	3DS LRDIMM	NA
Memory Module Slots	16 DDR4 DIMM slots	16 DDR4 DIMM slots
Maximum RAM	RDIMM 1TB	RDIMM 512GB
	LRDIMM 2TB	LRDIMM 1TB
Storage		
Front Bays	Up to 24 x 2.5" with up to 12 NVMe, SATA/SAS/NVMe (HDD/SSD)	Up to 24 x 2.5" with up to 12 NVMe, SATA/SAS/NVMe (HDD/SSD)
	Up to 12 x 3.5" SAS/SATA (HDD/SSD)	Up to 12 x 3.5" SAS/SATA (HDD/SSD)
	Up to 8 x 3.5" SATA/SAS (HDD/SSD)	Up to 8 x 3.5" SATA/SAS (HDD/SSD)
Rear Bays	Up to 2 x 3.5" SAS/SATA (HDD/SSD)	Up to 2 x 3.5" SAS/SATA (HDD/SSD)
Storage Controllers		
Internal Controllers	<ul style="list-style-type: none"> • HBA330 • H330 Mini • H730P Mini • H740P Mini 	<ul style="list-style-type: none"> • HBA330 • H330 Mini • H730P Mini • H740P Mini
External Controllers	Non-RAID <ul style="list-style-type: none"> • 12Gbps SAS HBA • 12Gbps PERC9 • 10 series, mini PERC x8 slot 	Non-RAID <ul style="list-style-type: none"> • H840, 12Gbps SAS HBA • 12Gbps PERC9 • 10 series, mini PERC x8 slot
	RAID <ul style="list-style-type: none"> • H840 	RAID <ul style="list-style-type: none"> • H840
Software RAID	S150	S140

Feature	PowerEdge R7515	PowerEdge R7415
Internal Boot	Boot Optimized Storage Subsystem (BOSS): HW RAID 2 x M.2 SSDs 120GB or 240GB	Boot Optimized Storage Subsystem (BOSS): HW RAID 2 x M.2 SSDs 120GB or 240GB
	Internal USB	Internal USB
	Internal Dual SD Module* i NOTE: *ESXi (only OS supported)	Internal Dual SD Module* i NOTE: *ESXi (only OS supported)
Operating Systems	<ul style="list-style-type: none"> Canonical® Ubuntu® Server LTS Citrix® Hypervisor Microsoft® Windows Server® with Hyper-V Red Hat® Enterprise Linux SUSE® Linux Enterprise Server VMware® ESXi® 	<ul style="list-style-type: none"> Canonical® Ubuntu® Server LTS Citrix® Hypervisor Microsoft® Windows Server® with Hyper-V Red Hat® Enterprise Linux SUSE® Linux Enterprise Server VMware® ESXi®
Security	Cryptographically signed firmware	Cryptographically signed firmware
	Secure Boot	Secure Boot
	Secure Erase	Secure Erase
	Silicon Root of Trust	Silicon Root of Trust
	System Lockdown (requires iDRAC Enterprise)	System Lockdown (requires iDRAC Enterprise)
	TPM 1.2/2.0, TCM 2.0 (optional)	TPM 1.2/2.0, TCM 2.0 (optional)
Management		
Embedded/At-the-Server	iDRAC9	iDRAC9
	iDRAC RESTful API with Redfish	iDRAC RESTful API with Redfish
	iDRAC Direct	iDRAC Direct
	Quick Sync 2 BLE/wireless module	Quick Sync 2 BLE/wireless module
	Digital License Key	Digital License Key
	Easy Restore	Easy Restore
Consoles	OpenManage Enterprise	OpenManage Enterprise
	OpenManage Enterprise Power Manager	OpenManage Enterprise Power Manager
Mobility	OpenManage Mobile	OpenManage Mobile
Tools	Dell EMC RACADM CLI	Dell EMC RACADM CLI
	Dell EMC Repository Manager	Dell EMC Repository Manager
	Dell EMC System Update	Dell EMC System Update
	Dell EMC Server Update Utility	Dell EMC Server Update Utility
	Dell EMC Update Catalogs	Dell EMC Update Catalogs
	iDRAC Service Module	iDRAC Service Module
	IPMI Tool	IPMI Tool
	OpenManage Server Administrator	OpenManage Server Administrator
OpenManage Integrations	BMC Truesight	BMC Truesight
	Microsoft® System Center	Microsoft® System Center
	VMware® vCenter	VMware® vCenter

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OpenManage Connections	IBM Tivoli® Netcool/OMNIBus	IBM Tivoli® Netcool/OMNIBus
	IBM Tivoli® Network Manager IP Edition	IBM Tivoli® Network Manager IP Edition
	Micro Focus® Operations Manager I	Micro Focus® Operations Manager I
	Nagios® Core	Nagios® Core
	Nagios® XI	Nagios® XI
	NA	Oracle® Enterprise Manager
Power Supply	NA	450W AC Cabled PSU Bronze
	495W AC Platinum	495W AC Platinum
	750W AC Platinum/Titanium	750W AC Platinum/Titanium
	1100W AC Platinum	1100W AC Platinum
	1600W AC Platinum	1600W AC Platinum
	750W Mixed Mode HVDC Platinum	750W Mixed Mode HVDC Platinum
	1100W Mixed Mode HVDC Platinum	1100W Mixed Mode HVDC Platinum
	Up to 6 standard/high performance fans with full redundancy	Up to 6 standard/high performance fans with full redundancy
Ports		
Network Options	2 x 1GbE Base-T	2 x 1GbE Base-T
	2 x 10GbE Base-T	2 x 10GbE Base-T
	2 x 10GbE SPF+	2 x 10GbE SPF+
	2 x 25GbE SPF28	
Front Ports	1 x Dedicated iDRAC micro-USB	1 x Dedicated iDRAC micro-USB
	1 x USB 2.0	1 x USB 2.0
	1 x VGA	1 x VGA
Rear Ports	2 x 1GbE	2 x 1GbE
	1 x Dedicated iDRAC network	1 x Dedicated iDRAC network
	1 x Serial	1 x Serial
	2 x USB 3.0	2 x USB 3.0
	1 x VGA	1 x VGA
Internal Ports	1 x USB 3.0	1 x USB 3.0
Slots		
PCIe	2 x Gen3 slots (1 x8; 1 x16) + 2 x Gen4 slots (2 x 16)	4 x Gen3 slots (3 x 16; 1 x 8)
Video Card	1 x VGA	1 x VGA
Bezel	Optional LCD bezel or security bezel	Optional LCD bezel or security bezel
Form Factor	2U Rack Server	2U Rack Server
Dimensions and Weight		
Height	86.8mm (3.42")	86.8mm (3.42")
Width	434.0mm (17.09")	434.0mm (17.09")
Depth	647.1mm (25.48")	647.1mm (25.48")

Feature	PowerEdge R7515	PowerEdge R7415
Weight	27.3kg (60.19lb)	28.21kg (62.19lb)

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