

Dell EMC PowerEdge R440 and R430 server comparison matrix

The PowerEdge R440 system has the following features compared with the R430 system.

Feature	PowerEdge R440	PowerEdge R430
Processor	Up to two 2nd Generation Intel® Xeon® Scalable processors with up to 24 cores per processor	Up to two Intel® Xeon® processor E5-2600 v4 product family with up to 22 cores per processor
Chipset	Intel® C620 series chipset	Intel® C610 series chipset
Memory		
DIMM Speed	Up to 2666 MT/s	Up to 2133MT/s
Memory Type	<ul style="list-style-type: none"> RDIMM LRDIMM 	<ul style="list-style-type: none"> RDIMM LRDIMM
Memory Module Slots	16 DDR4 DIMM slots NOTE: Supports registered ECC DDR4 DIMMs only	12 DDR4 DIMM slots NOTE: Supports registered ECC DDR4 DIMMs only
Maximum RAM	RDIMM 512GB	RDIMM 384GB
	LRDIMM 1TB	LRDIMM 384GB
Storage		
Front Bays	Up to 10 x 2.5" SAS/SATA (HDD/SSD) with up to 4 NVMe SSD max 76.8TB	Up to 10 x 2.5" SAS/SATA (HDD/SSD)
	Up to 4 x 3.5" SAS/SATA HDD, max 64TB	Up to 8 x 2.5" SAS/SATA (HDD/SSD)
	NA	Up to 4 x 2.5"/3.5" SAS/SATA (HDD/SSD)
	NA	Up to 4 x 3.5" cabled HDD
Storage Controllers		
Internal Controllers	<ul style="list-style-type: none"> HBA330 H330 H730P H740P 	<ul style="list-style-type: none"> H330 H730 H730P
External Controllers	<ul style="list-style-type: none"> H840P 12Gbps SAS HBA 	<ul style="list-style-type: none"> H830
Software RAID	S140	S130
Internal Boot	Boot Optimized Storage Subsystem (BOSS): HW RAID 2 x M.2 SSDs 480GB	NA
	Internal USB	Internal USB
	Internal Dual SD Module and vFlash* NOTE: *ESXi (only OS supported)	Internal Dual SD Module* NOTE: *ESXi (only OS supported)

Feature	PowerEdge R440	PowerEdge R430
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 Erase
	Secure Erase	
	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	iDRAC8 with Lifecycle controller
	iDRAC RESTful API with Redfish	iDRAC RESTful API with Redfish
	iDRAC Direct	iDRAC Direct
	Quick Sync 2 BLE/wireless module	iDRAC Quick Sync
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	Microsoft® System Center
	Microsoft® System Center	
	RedHat® Ansible® Modules	VMware® vCenter
	VMware® vCenter	
OpenManage Connections	IBM Tivoli® Netcool/OMNIBus	IBM Tivoli® Netcool/OMNIBus
	IBM Tivoli® Network Manager IP Edition	HP Operations Manager
	Micro Focus® Operations Manager I	
	Nagios® Core	
	Nagios® XI	
Power Supply	450W AC Cabled PSU Bronze	450W AC Cabled PSU Bronze

Feature	PowerEdge R440	PowerEdge R430
	550W AC Platinum	550W AC Platinum
	Up to 6 fan support	Up to 6 fan support
Ports		
Network Options	2 x 1GbE	4 x 1 GbE
	2 x 10GbE	
	2 x 10GbE SPF+	
Front Ports	1 x Dedicated iDRAC micro-USB	1 x Dedicated iDRAC USB Type A
	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 (x16/x16)	2 x Gen3 slots (x8/x16)
Video Card	1 x VGA	1 x VGA
Bezel	Optional LCD bezel or security bezel	Optional LCD bezel or security bezel
Form Factor	1U Rack Server	1U Rack Server
Dimensions and Weight		
Height	42.8mm (1.68")	42.8mm (1.68")
Width	434mm (17.08")	434mm (17.08")
Depth	714.6mm (28.13")	607.0mm (23.9")
Weight	17.6kg (38.9lb)	16.73kg (36.88lb)

© 2019 Dell Inc. or its subsidiaries. All rights reserved.