



Dell EMC PowerEdge R240 and R230 server comparison matrix

The PowerEdge R240 system has the following features compared with the R230 system.

Feature	PowerEdge R240	PowerEdge R230
Processor	Intel® Xeon® E-2200 product family processor with up to 8 cores	Intel® Xeon® processor E3-2100 v6 product family with up to 4 cores
	Intel® Core i3® i3 9100 processor with up to 4 cores	Intel® Core i3® i3 processor with up to 2 cores
	Intel® Pentium® G5420 processor with up to 2 cores	Intel® Pentium® processor with up to 2 cores
	Intel® Celeron® G4930 processor with up to 2 cores	Intel® Celeron® processor with up to 2 cores
Chipset	Intel® C246 chipset	Intel® C236 chipset
Memory		
DIMM Speed	Up to 2666MT/s	Up to 2400MT/s
Memory Type	UDIMM	UDIMM
Memory Module Slots	4 DDR4 DIMM slots	4 DDR4 DIMM slots
Maximum RAM	UDIMM 64GB	UDIMM 64GB
Storage		
Front Bays	Up to 4 x 3.5 hot-plug SAS/ SATA/SSD/HDD, max 56TB	Up to 4 x 3.5 hot-plug SAS/ SATA/SSD/HDD, max 56TB
	Up to 4 x 3.5 cabled SAS/ SATA/SSD/HDD, max 56TB	Up to 4 x 3.5 cabled SAS/ SATA/SSD/HDD, max 56TB
	Up to 2 x 3.5 cabled SAS/SATA/ SSD/HDD, max 28TB	Up to 2 x 3.5 cabled SAS/SATA/ SSD/HDD, max 28TB
Storage Controllers		
Internal Controllers	H330	H330
	H730P	H730
	HBA330	H830
External Controllers	12Gbps SAS HBA	12Gbps SAS HBA
Software RAID	S140	S130
Internal Boot	Boot Optimized Storage Subsystem (BOSS): HW RAID 2 x M.2 SSDs 240GB (RAID 1 or No RAID)	NA
	Boot Optimized Storage Subsystem (BOSS): HW RAID 1 x M.2 SSD 240GB (No RAID only)	
	Internal USB	Internal USB
	Internal Dual SD Module*	Internal Dual SD Module*

Feature	PowerEdge R240	PowerEdge R230
	 NOTE: *ESXi (only OS supported)	 NOTE: *ESXi (only OS supported)
Operating Systems	Canonical® Ubuntu® LTS	Microsoft Windows Server® 2016
	Citrix® Hypervisor®	Microsoft® Windows Server® with Hyper-V
	Microsoft® Windows Server® LTSC with Hyper-V 2012	Red Hat® Enterprise Linux
	Red Hat® Enterprise Linux	SUSE® Linux Enterprise Server
	SUSE® Linux Enterprise Server	VMware® ESXi®
	VMware® ESXi®	
Security	Cryptographically signed firmware	Cryptographically signed firmware
	Secure Boot	Secure Erase
	Secure Erase	System Lockdown (requires iDRAC)
	Silicon Root of Trust	TPM 1.2/2.0, TCM 2.0 optional
	System Lockdown (requires OpenManage Enterprise)	
	TPM 1.2/2.0, TCM 2.0 optional	
Management		
Embedded/At-the-Server	iDRAC9	iDRAC8 with Lifecycle Controller
	iDRAC Direct	iDRAC8 Express
	iDRAC RESTful API with Redfish	iDRAC8 Enterprise
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	Dell OpenManage Integration Suite for Microsoft System Center
	Microsoft® System Center	
	RedHat® Ansible® Modules	Dell OpenManage Integration for VMware vCenter®
	VMware® vCenter	
OpenManage Connections	IBM Tivoli® Netcool/OMNibus	HP Operations Manager
	IBM Tivoli® Network Manager IP Edition	IBM Tivoli® Netcool®
	Micro Focus® Operations Manager I	CA Network and Systems Management

Feature	PowerEdge R240	PowerEdge R230
	Nagios® Core	Dell OpenManage Plug-in for Oracle® Database Manager
	Nagios® XI	
Power Supply	250W AC Bronze (Cabled PSU)	250W AC Bronze (Cabled PSU)
	450W AC Platinum (Cabled PSU)	
	One fan, non-redundant and non-hot swappable	One fan, non-redundant and non-hot swappable
Ports		
Network Options	2 x 1GbE LOM (standard)	2 x 1GbE LOM (standard)
	2 x 1GbE and 4 x 1GbE NIC (optional)	
Front Ports	1 x Dedicated iDRAC micro-USB	2 x USB 2.0
	1 x USB 2.0	
Rear Ports	2 x USB 3.0	2 x USB 3.0
	1 x Serial	
	1 x VGA	
Internal Ports	1 x USB 3.0	1 x USB 3.0
Slots		
PCIe	1 x Gen3 slot (1 x16)	1 x Gen3 slot (1 x16)
	1 x Gen3 slot (1 x8)	1 x Gen3 slot (1 x8)
Video Card	1 x VGA	1 x VGA
Bezel	Optional security Bezel	Optional security Bezel
Form Factor	Rack Server	Rack Server
Dimensions and Weight		
Height	42.8mm (17.1")	42.8mm (17.1")
Width	434mm (17.08")	434mm (17.09")
Depth	595.6mm (23.5")	495mm (19.5")
Weight	12.2kg (29.98lb)	21kg (55.67lb)

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