

Dell EMC PowerEdge FC640 and FC630 server comparison matrix

The PowerEdge FC640 system has the following features compared with the FC630 system.

Feature	PowerEdge FC640	PowerEdge FC630
Processor	Up to two Intel® Xeon® Scalable processors with up to 28 cores per processor	Intel® Xeon® processor E5-2600 v4 product family with up to 22 cores
Chipset	Intel® C620 chipset	Intel® C610 chipset
Memory		
DIMM Speed	Up to 2933MT/s	Up to 2400MT/s
Memory Type	RDIMM	RDIMM
	LRDIMM	LRDIMM
Memory Module Slots	16 DDR4 DIMM slots	24 DDR4 DIMM slots
Maximum RAM	RDIMM 1TB	RDIMM 768GB
	LRDIMM 2TB	LRDIMM 1.5TB
Storage		
Front Bays	Up to 2 x 2.5" SAS/SATA (HDD/SSD), max 12GB	Up to 2 x 2.5" hot-swappable SAS/SATA (HDD), max 12GB
		Up to 8 x 1.8" hot-swappable SATA SSDs, max 6GB
Storage Controllers		
Internal Controllers	H330	H330
	HBA330	H730
	H730P	H730P
External Controllers	NA	NA
Software RAID	S140	S130
Internal Boot	Boot Optimized Storage Subsystem (BOSS): HW RAID 2 x M.2 SSDs 240GB or 480GB	NA
	Internal USB	Internal USB
	Internal Dual SD Module* NOTE: *ESXi (only OS supported)	Internal Dual SD Module* NOTE: *ESXi (only OS supported)
Operating Systems		
	Canonical® Ubuntu® LTS	Citrix® Hypervisor®
	Citrix® Hypervisor®	Microsoft Windows Server® 2016
	Microsoft® Windows Server® LTSC with Hyper-V	Novell SUSE® Linux Enterprise Server
	Red Hat® Enterprise Linux	Red Hat® Enterprise Linux

Feature	PowerEdge FC640	PowerEdge FC630
	SUSE® Linux Enterprise Server	VMware vSphere® ESXi™
	VMware vSphere® ESXi™	
Security	Cryptographically signed firmware	Cryptographically signed firmware
	Secure Boot	Secure Erase
	Secure Erase	System Lockdown (requires iDRAC)
	System Lockdown (requires OpenManage Enterprise)	
Management		
Embedded/At-the-Server	iDRAC9	iDRAC8 with Lifecycle Controller
	iDRAC Direct	iDRAC8 Express
	iDRAC RESTful API with Redfish	iDRAC8 Enterprise
	Chassis Management Controller (CMC)	
Consoles	OpenManage Enterprise	OpenManage Enterprise
	OpenManage Enterprise Power Manager	OpenManage Enterprise Power Manager
Mobility	OpenManage Mobile	OpenManage Mobile
Tools	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
	OpenManage Server Administrator	OpenManage Server Administrator
OpenManage Integrations	BMC® Truesight	Dell OpenManage Integration Suite for Microsoft System Center
	Microsoft® System Center	Dell OpenManage Integration for VMware vCenter®
	VMware® vCenter	
OpenManage Connections	Micro Focus® Operations Manager I	HP Operations Manager
	Nagios® Core	IBM Tivoli® Netcool®
	Nagios® XI	CA Network and Systems Management
		Dell OpenManage Plug-in for Oracle® Database Manager
Power Supply	1600W AC Platinum	1600W AC Platinum
	2000W AC Platinum	2000W AC Platinum
	2400W AC Platinum	Up to 4 fans with full redundancy
	Up to 8 fans with full redundancy	
Ports		
Network Options	2 x 1GbE	2 x 1GbE
Front Ports	1 x USB 2.0 Dedicated iDRAC micro-USB	1 x USB 2.0
	1 x USB 3.0	1 x USB 3.0
Rear Ports	1 x Serial	1 x Serial

Feature	PowerEdge FC640	PowerEdge FC630
Internal Ports	1 x USB 3.0	1 x USB 2.0
Slots		
PCIe	2 x Gen3 slots (2 x8)	1 x Gen3 slot (1 x16)
	1 x Gen3 slot (1 x16)	
Video Card	1 x VGA	1 x VGA
Bezel	Sled handle	Sled handle
Form Factor	Half-height modular blade server supported on the PowerEdge FX2/FX2s enclosure.	Half-height modular blade server supported on the PowerEdge FX2/FX2s enclosure.
Dimensions and Weight		
Height	211mm (8.3")	211mm (8.3")
Width	40.25mm (1.58")	40.3mm (1.6")
Depth	535.75mm (21.09")	535.8mm (21.1")
Weight	5.8kg (12.79lb)	6.4kg (14.11lb)

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