



Dell EMC PowerEdge T640 and T630 server comparison matrix

The PowerEdge T640 system has the following features compared with the T630 system.

Feature	PowerEdge T640	PowerEdge T630
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
Accelerators	Up to four 300W and eight 150W GPUs NVIDIA Tesla P100, P40, K80M, M60, M10, AMD S7150, S7150X2	Up to four 300W internal optional GPUs
Memory		
DIMM Speed	Up to 2933MT/s	Up to 2400MT/s
Memory Type	RDIMM	RDIMM
	LRDIMM	LRDIMM
	NVDIMM	
Memory Module Slots	24 DDR4 DIMM slots (12 NVDIMM only)	24 DDR4 DIMM slots
Maximum RAM	RDIMM 3TB	RDIMM 768GB
	LRDIMM 3TB	LRDIMM 1.5TB
	NVDIMM 192GB	
Storage		
Front Bays	Up to 8 or 18 x 3.5" SAS/SATA (HDD/SSD), max 216TB	Up to 8 or 18 x 3.5" SAS/SATA (HDD), max 144TB
	Up to 16 x 2.5" SAS/SATA (HDD/SSD), max 61TB	Up to 16 x 2.5" SAS/SATA (HDD/SSD), max 61TB
	Up to 32 x 2.5" SAS/SATA (HDD/SDD), max 122TB	Up to 32 x 2.5" SAS/SATA (HDD/SDD), max 122TB
	Up to 16 x 2.5" with up to 8 NVMe, SAS/SSD/NVMe (HDD/SDD), max 112TB	
Storage Controllers		
Internal Controllers	H330	H330
	HBA330	H730
	H730P	H730P
	H740P	
	H840P	
External Controllers	12Gbps SAS HBA	H830
Software RAID	S140	S130

Feature	PowerEdge T640	PowerEdge T630
Internal Boot	Boot Optimized Storage Subsystem (BOSS): HW RAID 2 x M.2 SSDs 120GB or 240GB	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 2012	Microsoft® Windows Server® with Hyper-V
	Red Hat® Enterprise Linux	Novell SUSE® Linux Enterprise Server
	SUSE® Linux Enterprise Server	Red Hat® Enterprise Linux
	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
	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 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 Dell OpenManage Integration for VMware® vCenter
	Microsoft® System Center	
	RedHat® Ansible® Modules	
	VMware® vCenter	

Feature	PowerEdge T640	PowerEdge T630
OpenManage Connections	IBM Tivoli® Netcool/OMNibus	CA Network and Systems Management
	IBM Tivoli® Network Manager IP Edition	Dell OpenManage for Oracle Database Manager
	Micro Focus® Operations Manager I	HP Operations Manager
	Nagios® Core	IBM Tivoli® Netcool®
	Nagios® XI	
Power Supply	495W Platinum	495W Platinum
	750W 240HVDC Platinum	750W Platinum
	750W Titanium	750W Titanium
	1100W 380HVDC Platinum	1100W AC Platinum
	1100W AC Platinum	1100W DC Gold
	1100W 48VDC Platinum	1600W AC Platinum
	1600W AC Platinum	
	2000W AC Platinum	Up to 6 fans with full redundancy
	2400W AC Platinum	
	Up to 8 fans with full redundancy	
Ports		
Network Options	2 x 10GbE	2 x 1GbE
Front Ports	1 x Dedicated iDRAC micro-USB	1 x USB 2.0
	1 x USB 2.0	1 x USB 3.0
	1 x USB 3.0	
	6 x USB 2.0/3.0	
Rear Ports	4 x USB 2.0	4 x USB 2.0
	2 x USB 3.0	2 x USB 3.0
	1 x Serial	1 x Serial
	1 x VGA	1 x VGA
Internal Ports	1 x USB 3.0	1 x USB 3.0
Slots		
PCIe	4 x Gen3 slots (4 x8)	2 x Gen2 slots (2 x8)
	4 x Gen3 slots (4 x16)	4 x Gen3 slots (4 x16)
		2 x Gen3 slots (2 x8)
Video Card	1 x VGA	1 x VGA
Bezel	Optional LCD or security Bezel	Optional LCD or security Bezel
Form Factor	5U Tower Server	5U Tower Server
Dimensions and Weight		
Height	443.5mm (17.5")	443.5mm (17.5")
Width	304.5mm (12")	482.0mm (18.98")
Depth	692.8mm (27.3")	750.8mm (29.56")

Feature	PowerEdge T640	PowerEdge T630
Weight	49.7kg (109.5lb)	49.65kg (109.36lb)

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