Dell PowerEdge T640 Server Datasheet

CONTENT

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OVERVIEW

The PowerEdge T640 delivers ultimate two-socket performance and massive internal storage capacity in a rack or tower platform. The scalable T640 drives a wide range of workloads for mid-sized offices, remote sites and data centers.

Figure 1. **Dell PowerEdge T640 Server**

FEATURES

Adapt and scale to your dynamic business needs

The PowerEdge T640 balances cost-effective, in-server expansion with powerful performance to provide a scalable business architecture. The versatile T640 allows you to address data-heavy, diverse workloads including virtualization, databases, analytics, imaging applications and SDS. Meet dynamic performance and capacity demands with flexible storage and I/O options.

● Deliver fast insights with up to 8 NVMe drives, up to 2x more than the previous generation.

● Meet changing business requirements with a dual port 10GbE network.

● Future-proof data growth with up to 18 x 3.5" or 32 x 2.5" drives and 8 PCIe slots.

● Provide advanced imaging and VDI with up to 4 x 300W GPU accelerators.

Intuitive systems management with intelligent automation

Dell EMC PowerEdge servers increase efficiency by leveraging the power and simplicity of the embedded iDRAC with Lifecycle Controller for smart automation of routine tasks. With agent-free management, the T640 is managed with ease and frees up time for your business priorities.

● Simplify and automate management of your Dell EMC infrastructure with OpenManage Enterprise.
● Take advantage of the OpenManage Mobile app and Quick Sync 2 capabilities to easily and effectively manage PowerEdge servers at the server, or wherever you are.

● Streamline management in virtualized environments with OpenManage Integrations for VMware vCenteror Microsoft System Center.

Safeguard data with integrated security

Every PowerEdge server is made with a cyber-resilient architecture, delivering security into all parts of a server's life cycle. The T640 uses these new security features so you can reliably and securely deliver the right data to where your customers are, no matter where they are. Dell EMC considers each part of system security, from design to end of life, to ensure trust and deliver worry-free systems.

● Rely on a secure supply chain that protects servers from the factory to the data center.

● Maintain data safety with cryptographically signed firmware packages and Secure Boot.

● Prevent unauthorized or malicious change with Server Lockdown.

● Wipe all data from storage media including hard drives, SSDs and system memory quickly and securely with System Erase.

Specification	Dell PowerEdge T640 Server
Processor	Up to two 2nd Generation Intel® Xeon® Scalable processors, up to 28 cores per processor
Memory	24 DDR4 DIMM slots, Supports RDIMMS/ LRDIMMS, speeds up to 2993MT/s, 3TB max Up to 12 NVDIMM, 192GB max Supports registered ECC DDR4 DIMMs only
Storage controllers	Internal controllers: PERC H330, H730P, H740P, HBA330, Software RAID (SWRAID) S140 Boot Optimized Storage Subsystem: HWRAID 2 x M.2 SSDs 120GB, 240 GB External PERC (RAID): H840 External HBAs (non-RAID): 12 Gbps SAS HBA
Drive bays	Up to 8 or 18 x 3.5" SAS/SATA (HDD/SSD) max 288TB or up to 16 x 2.5" SAS/SATA (HDD/SSD) max 61TB or up to 32 x 2.5" SAS/SATA (HDD/SSD) max 122TB or up to 16 x 2.5" with up to 8 NVMe, SAS/SATA /NVMe (HDD/SSD) max 112TB
Power supplies	Titanium 750W, Platinum 495W, 750W, 1100W,1600W, 2000W and 2400W 48VDC 1100W, 240HVDC 750W Hot plug power supplies with full redundancy Up to 8 fans with N+1 redundancy (6 hot-pluggable internal fans

	plus 2 external fans)
Size	Form factor: Tower or rack, 5U
	Chassis max depth: 708.7 mm
Bezel	Optional security bezel
Embedded / At-Server	iDRAC9 with Lifecycle Controller
	iDRAC Direct
	iDRAC REST API with Redfish
	Quick Sync 2 BLE/wireless module
Consoles & Mobile	OpenManage Enterprise OpenManage Mobile
	OpenManage Power Manager
Integrations	Microsoft® System Center, VMware® vCenter™, BMC Software
Connections	Nagios & Nagios XI, HP Operations Manager (OMi)
Tools	Dell EMC Repository Manager
	Dell EMC Update Package
	Dell EMC System Update
	Dell EMC Server Update Utility
	iDRAC Service Module
	OpenManage Server Administrator
	OpenManage Storage Services
Security	TPM 1.2/2.0 optional
	Cryptographically signed firmware

	Silicon Root of Trust
	Secure Boot
	System Lockdown
	System Erase
I/O & Ports	2 x 10GbE LOM (1GbE/10GbE)
	8 x USB (1 x USB 2.0, 1 x USB 3.0, 6 x USB 2.0/3.0) dedicated IDRAC Direct Micro-USB
	Video card: VGA
	Up to 8 PCIe Gen3 slots
GPU	GPU options: 4 x DW or 8 x SW
	Nvidia Tesla P100, K80M, M60, M10, P40, AMD
	S7150, S7150X22
Supported operating systems	Canonical® Ubuntu® LTS
	Citrix® Hypervisor
	Microsoft Windows Server® LTSC with Hyper-V
	Red Hat® Enterprise Linux
	SUSE® Linux Enterprise Server
	VMware® ESXi®
OEM-ready version available	From bezel to BIOS to packaging, your servers can look and feel as if they were designed and built by you.
Recommended support	Choose Dell ProSupport Plus for critical systems or Dell ProSupport for premium hardware and software support for your PowerEdge solution. Consulting and deployment offerings are also available. Contact your Dell representative today for more information.

Availability and terms of Dell Services vary by region.

ORDERING INFORMATION

Configured Models
Dell 5U T640 3204/8G*1/600G SAS 10K*1/H330/DVD/750W*1/3.5-18
Dell 5U T640 3204/8G*1/600G SAS 10K*1/H330/DVD/750W*1/3.5-8
Dell 5U T640 4208/8G*1/600G SAS 10K*1/H330/DVD/750W*1/3.5-18
Dell 5U T640 4208/8G*1/600G SAS 10K*1/H330/DVD/750W*1/3.5-8
Dell 5U T640 4210/8G*1/600G SAS 10K*1/H330/DVD/750W*1/3.5-18
Dell 5U T640 4210/8G*1/600G SAS 10K*1/H330/DVD/750W*1/3.5-8
Dell 5U T640 4214/8G*1/600G SAS 10K*1/H330/DVD/750W*1/3.5-18
Dell 5U T640 4214/8G*1/600G SAS 10K*1/H330/DVD/750W*1/3.5-8
Dell 5U T640 4216/8G*1/600G SAS 10K*1/H330/DVD/750W*1/3.5-18
Dell 5U T640 4216/8G*1/600G SAS 10K*1/H330/DVD/750W*1/3.5-8
Dell 5U T640 5218/8G*1/600G SAS 10K*1/H330/DVD/750W*1/3.5-18
Dell 5U T640 5218/8G*1/600G SAS 10K*1/H330/DVD/750W*1/3.5-8
Dell PowerEdge T640 3104/8G/600G SAS 10K/H330/DVDRW/495W/3.5-18 Sever

[Dell PowerEdge T640 3104/8G/600G SAS 10K/H330/DVDRW/495W/3.5-8 Sever](#)
[Dell PowerEdge T640 3106/8G/600G SAS 10K/H330/DVDRW/495W/3.5-18 Sever](#)
[Dell PowerEdge T640 3106/8G/600G SAS 10K/H330/DVDRW/495W/3.5-8 Sever](#)
[Dell PowerEdge T640 4110/8G/600G SAS 10K/H330/DVDRW/495W/3.5-18 Sever](#)
[Dell PowerEdge T640 4110/8G/600G SAS 10K/H330/DVDRW/495W/3.5-8 Sever](#)
[Dell PowerEdge T640 4114/8G/600G SAS 10K/H330/DVDRW/495W/3.5-18 Sever](#)
[Dell PowerEdge T640 4114/8G/600G SAS 10K/H330/DVDRW/495W/3.5-8 Sever](#)
[Dell PowerEdge T640 5115/8G/600G SAS 10K/H330/DVDRW/495W/3.5-18 Sever](#)
[Dell PowerEdge T640 5115/8G/600G SAS 10K/H330/DVDRW/495W/3.5-8 Sever](#)
[Dell PowerEdge T640 5118/8G/600G SAS 10K/H330/DVDRW/495W/3.5-18 Sever](#)
[Dell PowerEdge T640 5118/8G/600G SAS 10K/H330/DVDRW/495W/3.5-8 Sever](#)

WHERE TO BUY

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SOURCES

https://i.dell.com/sites/csdocuments/Shared-Content_data-Sheets_Documents/en/PowerEdge-T640-Spec-Sheet.pdf