



PowerEdge T420

The Dell PowerEdge T420, a two-socket tower server that delivers performance, expandability and reliability in quiet office settings.

The Dell PowerEdge T420 is a powerful and reliable two-socket tower server that delivers performance and built-in capacity for non-disruptive growth. The T420's acoustical profile fits unobtrusively into quiet office environments and data centers alike. An excellent fit for general-purpose small and medium business workloads such as database, file and print sharing, retail and email, the T420 also fulfills platform needs in small offices with virtual desktop infrastructure. Hot pluggability of key components, combined with leading manageability, make it an excellent server for branch offices and other remote sites that may not have IT staffing. Consistent worldwide support makes it highly appealing to multinational businesses and organizations with remote offices.

A versatile workhorse

Featuring the extensive performance of the Intel® Xeon® processor E5-2400 and E5-2400 v2 product families, and complemented by substantial memory capacity and broad I/O bandwidth, the T420 provides high, balanced performance and built-in room for growth. Its twelve DIMM slots and six PCI Express® (PCIe) slots provide memory density and wide I/O bandwidth to support both memory-intensive and data-intensive applications and databases. Built-in capacity for up to eight 3.5-inch or sixteen 2.5-inch hard drives accommodate data storage as your business or organization grows. These combined technology features are necessary to support consolidated and virtualized environments, a role in which the T420 also shines.

To protect your virtualized workloads, the T420 offers dual SD media making your hypervisors redundant and failsafe. Other reliability and availability features include hot-plug hard drives, both hardware and software RAID options, redundant fans and hot-plug power supplies.

Enterprise-wide systems management

PowerEdge embedded management technology, Integrated Dell Remote Access Controller 7 (iDRAC7) with Lifecycle Controller, helps IT administrators manage Dell servers in physical, virtual, local and remote environments — agent-free or with a systems management software agent installed.

iDRAC7 Enterprise features include a multi-admin virtual console, virtual media and remote file share that enable IT admins to operate servers “as if they were there,” ensuring secure access to servers from anywhere in the world.

OpenManage Essentials, a comprehensive monitoring and management console available as a no-charge software download, simplifies and automates basic hardware management tasks while Dell SupportAssist helps you maintain a healthy and productive environment.

PowerEdge T420

- Intel Xeon E5-2400 and E5-2400 v2 processors
- Up to sixteen 2.5-inch or eight 3.5-inch drive capacity
- Up to twelve DIMMs with RAS
- PCIe 3.0-enabled expansion slots
- Optional internal GPU accelerators

Feature	PowerEdge T420 technical specification	
Form factor	Tower (5U rackable)	
Processors	Intel® Xeon® processor E5-2400 and E5-2400 v2 product families	
Processor sockets	2	
Internal interconnect	Intel QuickPath Interconnect (QPI) link: 6.4GT/s, 7.2GT/s, 8.0GT/s	
Cache	2.5MB per core; core options: 4, 6, 8, 10	
Chipset	Intel C602	
Memory ¹	Up to 384GB (12 DIMM slots): 2GB/4GB/8GB/16GB/32GB DDR3 up to 1600MT/s	
I/O slots	6 PCIe slots: <ul style="list-style-type: none"> 2 x16 with x16 bandwidth, 3.0, full-length, full-height 1 x8 with x4 bandwidth, 3.0, half-length, full-height 	<ul style="list-style-type: none"> 1 x8 with x4 bandwidth, 2.0, half-length, full-height 1 x8 with x4 bandwidth, 3.0, full-length, full-height 1 x8 with x1 bandwidth, 2.0, full-length, full-height
GPU options	One NVIDIA® Quadro® 6000 graphics card or up to two NVIDIA Quadro 4000 graphics cards	
RAID controller	Internal controllers: PERC S110 (SW RAID) PERC H310 PERC H710 PERC H710P	Internal HBAs (non-RAID): Internal tape adapter External HBAs (RAID): PERC H810 External HBAs (non-RAID): 6Gbps SAS HBA
Drive bays	Choose from four 3.5" cabled, eight 3.5" hot-plug, or sixteen 2.5" hot-plug drive bays	
Maximum internal storage ¹	Up to 32TB	
Hard drives	Hot-plug hard drive options: 2.5" SATA, nearline SAS, SAS (15K, 10K), SAS SSD, SATA SSD 3.5" SATA, nearline SAS, SAS (15K) Self-encrypting drives available	Cabled hard drive options: 3.5" SATA, nearline SAS, SAS (15K)
Embedded NIC	Broadcom® 5720 GbE dual-port 1Gb LOM	
I/O adapter options	1Gb/10Gb Ethernet: Broadcom 5720 dual-port 1Gb NIC Broadcom 5719 quad-port 1Gb NIC Intel I350 dual-port 1Gb stand-up adapter Intel I350 quad-port 1Gb stand-up adapter Intel X520 dual-port 10Gb DA/SFP+ server adapter Intel X540 dual-port 10Gb Base-T adapter 10Gb Converged Ethernet: Brocade® BR1020 dual-port 10Gb CNA QLogic® QLE8262 dual-port 10Gb DA/SFP+ Broadcom 57810S dual-port 10Gb Base-T CNA Broadcom 57810S dual-port 10Gb DA/SFP+ CNA	FC8/FC4 HBA: QLogic QLE2460 4Gb single-port FC HBA QLogic QLE2462 4Gb dual-port FC HBA QLogic QLE2560 8Gb single-port FC HBA QLogic QLE2562 8Gb dual-port FC HBA Emulex® LPe-12000-E 8Gb single-port FC HBA Emulex LPe-12002-E 8Gb dual-port FC HBA Brocade 815 8Gb single-port FC HBA Brocade 825 8Gb dual-port FC HBA
Power supply	Platinum efficiency, hot-plug, redundant 495W, 750W, 1100W power supplies; Silver efficiency, cabled 550W power supply; Auto-ranging power supplies	
Availability	Optional high-efficiency, hot-plug, redundant power supplies; hot-plug drive bays; TPM; dual internal SD support; redundant fans; optional bezel; information tag; ECC memory; optional interactive LCD screen; extended thermal support; ENERGY STAR® compliant; switch independent partitioning	
Remote management	Basic management (default), iDRAC7 with Lifecycle Controller, iDRAC7 Express (upgrade option) or iDRAC7 Enterprise (upgrade option), 8GB or 16GB vFlash media (upgrade options)	
Systems management	IPMI 2.0 compliant Dell OpenManage Essentials Dell OpenManage Mobile Dell OpenManage Power Center	Dell OpenManage Integrations: <ul style="list-style-type: none"> Dell OpenManage Integration Suite for Microsoft System Center Dell OpenManage Integration for VMware® vCenter® Dell OpenManage Connections: <ul style="list-style-type: none"> HP Operations Manager, IBM Tivoli® Netcool® and CA Network and Systems Management Dell OpenManage Plug-in for Oracle® Database Manager
Rack support	ReadyRails™ II sliding rails for tool-less mounting in 4-post racks with square or unthreaded round holes or tooled mounting in 4-post threaded hole racks, with support for optional tool-less cable management arm	
Operating systems	Microsoft Windows Server® 2012 R2 (includes Hyper-V®) Microsoft Windows Server 2012 Microsoft Windows Server 2008 R2 SP1, x64 (includes Hyper-V) Novell® SUSE® Linux Enterprise Server Red Hat® Enterprise Linux®	Optional embedded hypervisors: Citrix® XenServer® VMware vSphere® ESXi™ Red Hat Enterprise Virtualization® For more information on the specific versions and additions, visit Dell.com/OSSupport .
OEM-ready version	From bezel to BIOS to packaging, your servers can look and feel as if they were designed and built by you. For more information, visit Dell.com/OEM .	

¹GB equals 1 billion bytes and TB equals 1 trillion bytes; actual capacity varies with preloaded material and operating environment and will be less.

Global services and support

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