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Dell PowerEdge T420

The Dell™ PowerEdge™ T420, a 2-socket tower server, delivers performance, expandability and reliability in a quiet office setting.

The Dell PowerEdge T420 is a powerful and reliable 2-socket tower server that delivers performance and built-in capacity for non-disruptive growth. The T420's acoustical profile allows it to fit unobtrusively into quiet office environments and data centers alike. This tower server is 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 the growing trend of virtual desktop infrastructure (VDI). Hot pluggability of key components, combined with leading manageability, make it an excellent server for branch offices and other remote sites where IT skills might not be present. Consistent worldwide support makes it highly appealing to multinational businesses and organizations with remote offices.

A versatile workhorse

Featuring the extensive performance of two Intel® Xeon® E5-2400 processors, 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 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 PowerEdge 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.

The PowerEdge server line

The PowerEdge family is engineered with the right combination of features and performance scalability to handle tough workloads for businesses and organizations of all sizes.

The Dell OpenManage™ systems management portfolio includes integrated Dell Remote Access Controller (iDRAC) with Lifecycle Controller. This embedded feature helps IT administrators manage Dell servers in physical, virtual, local and remote environments, operating in-band or out-of-band, with or without a systems management software agent. OpenManage also integrates and connects to third-party systems management solutions so you can maintain your single point of control and capitalize on your existing investment. OpenManage simplifies the lifecycle of deploying, updating, monitoring, and maintaining your Dell PowerEdge servers.

PowerEdge T420

- Powered by Intel Xeon processors E5-2400
- Up to sixteen 2.5-inch or eight 3.5-inch drive capacity
- Up to twelve DIMMs with RAS
- PCIe Gen3-enabled expansion slots
- Optional internal GPU accelerators

Feature	PowerEdge T420 technical specification
Form factor	Tower (5U rackable)
Processors	Intel® Xeon® processor E5-2400 product family
Processor sockets	2
Internal interconnect	Intel QuickPath Interconnect (QPI) link: 6.4GT/s; 7.2GT/s; 8.0 GT/s
Cache	2.5MB per core; core options: 4, 6, 8
Chipset	Intel C600 series
Memory ¹	Up to 192GB (12 DIMM slots): 2GB/4GB/8GB/16GB DDR3 up to 1600MHz
I/O slots	6 PCIe slots: <ul style="list-style-type: none"> Two x16 slots with x16 bandwidth, full-length, full-height Two x8 slots with x4 bandwidth, half-length, full-height One x8 slot with x4 bandwidth, full-length, full-height One x8 slot with x1 bandwidth, 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 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 24TB
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 ports
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; luggage 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 OpenManage™ Essentials and Dell Management Console OpenManage Power Center Dell OpenManage Connections: <ul style="list-style-type: none"> OpenManage Integration Suite for Microsoft® System Center Dell plug-in for VMware® vCenter® HP Operations Manager, IBM Tivoli® Netcool®, and CA Network and Systems Management (NSM)
Rack support	ReadyRails™ sliding rails with optional cable management arm for 4-post racks (optional adapter brackets required for threaded hole racks; for rackable chassis model only)
Operating systems	Microsoft Windows Server® 2008 R2 SP1, x64 (includes Hyper-V™ v2) Microsoft Windows® Small Business Server 2011 SUSE® Linux® Enterprise Server Red Hat® Enterprise Linux Optional embedded hypervisors: Citrix® XenServer™ VMware vSphere™ For more information on the specific versions and additions, visit Dell.com/OSsupport .

¹ GB means 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

Dell Services can help reduce IT complexity, lower costs, and eliminate inefficiencies by making IT and business solutions work harder for you. The Dell Services team takes a holistic view of your needs and designs solutions for your environment and business objectives while leveraging proven delivery methods, local talent, and in-depth domain knowledge for the lowest total cost of ownership.

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. For more information, visit Dell.com/OEM.

Learn more at Dell.com/Partner/PowerEdge

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