



# 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 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 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 <sup>1</sup>	Up to 384GB (12 DIMM slots): 2GB/4GB/8GB/16GB/32GB DDR3 up to 1600MT/s	
I/O slots	<b>6 PCIe slots:</b> <ul style="list-style-type: none"> <li>Two x16 slots with x16 bandwidth, 3.0, full-length, full-height</li> <li>One x8 slot with x4 bandwidth, 3.0, half-length, full-height</li> <li>One x8 slot with x4 bandwidth, 2.0, half-length, full-height</li> <li>One x8 slot with x4 bandwidth, 3.0, full-length, full-height</li> <li>One x8 slot with x1 bandwidth, 2.0, full-length, full-height</li> </ul>	
GPU options	One NVIDIA® Quadro® 6000 graphics card or up to two NVIDIA Quadro 4000 graphics cards	
RAID controller	<b>Internal controllers:</b> PERC S110 (SW RAID) PERC H310 PERC H710 PERC H710P	<b>Internal HBAs (non-RAID):</b> Internal tape adapter <b>External HBAs (RAID):</b> PERC H810 <b>External HBAs (non-RAID):</b> 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 <sup>1</sup>	Up to 24TB	
Hard drives	<b>Hot-plug hard drive options:</b> 2.5" SATA, nearline SAS, SAS (15K, 10K), SAS SSD, SATA SSD 3.5" SATA, nearline SAS, SAS (15K) Self-encrypting drives available	<b>Cabled hard drive options:</b> 3.5" SATA, nearline SAS, SAS (15K)
Embedded NIC	Broadcom® 5720 GbE Dual Port 1Gb LOM	
I/O adapter options	<b>1Gb Ethernet:</b> 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 <b>10Gb Converged Ethernet:</b> Brocade® BR1020 Dual Port 10Gb CNA QLogic® QLE8262 Dual Port 10Gb DA/SFP+ Brocade 57810S Dual Port 10Gb Base-T CNA Brocade 57810S Dual Port 10Gb DA/SFP+ CNA	<b>10Gb Ethernet:</b> Intel X520 Dual Port 10Gb DA/SFP+ server adapter Intel X540 Dual Port 10Gb Base-T adapter <b>FC8/FC4 HBA:</b> 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 OpenManage™ Essentials and Dell Management Console OpenManage Power Center Dell OpenManage Connections: <ul style="list-style-type: none"> <li>OpenManage Integration Suite for Microsoft® System Center</li> <li>Dell plug-in for VMware® vCenter®</li> <li>HP Operations Manager, IBM Tivoli® Netcool®, and CA Network and Systems Management (NSM)</li> </ul>	
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 Microsoft Windows Server 2008 R2 SP1, x64 (includes Hyper-V® v2) SUSE® Linux® Enterprise Server Red Hat® Enterprise Linux® <b>Optional embedded hypervisors:</b> Citrix® XenServer™ VMware® vSphere™ ESX and ESXi Red Hat Enterprise Virtualization® For more information on the specific versions and additions, visit <a href="http://Dell.com/OSsupport">Dell.com/OSsupport</a> .	

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

## 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](http://Dell.com/OEM).

## Learn more at [Dell.com/PowerEdge](http://Dell.com/PowerEdge)

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