Dell PowerEdge T310

The Dell™ PowerEdge™ T310 server delivers enterprise-level performance, redundancy, and comprehensive right-sized manageability options in a 1-socket tower that is simple to own, deploy, and manage.

Dell's robust and reliable 1-socket tower server, the PowerEdge T310, offers the performance of DDR3 memory, advanced systems management options, and the availability of up to four hard drives (3.5" or 2.5") in a compact tower chassis.

Right-sized, flexibile technology and business value

The Dell PowerEdge T310 was designed to meet the needs of your growing small business or remote office by offering more features and performance than a basic, entry-level server. Customizable with optional advanced systems management capabilities including remote management, a short 20.5-inch chassis, redundancy features, and cost-effective RAID options, the T310 is the ideal robust and reliable 1-socket tower server.

Dell aims to add value to your business by providing the features you need. Our goal is to deliver value through tailored solutions based on industry standards, as well as purposeful, innovative design.

Purposeful design

The PowerEdge T310, part of the 11th generation PowerEdge server portfolio, is built with system design commonality and reliability. All 11th Generation servers are built with user ease in mind. All external ports, power supplies, LEDs, and LCD screens are kept in the same location for familiar user experience and easy installation and deployment.

Robust, metal hard drive carriers and organized cabling are designed to improve component access and airflow across the server. The PowerEdge T310's purposeful design provides quiet acoustics and an optional interactive LCD screen positioned on the front by the bezel for ease of monitoring. With a chassis depth of 20.5 inches, the PowerEdge T310's chassis is ideal for use in a back office, retail, or small office setting where space and acoustics matter.

Energy-optimized technology

Energy Smart technologies are at the core system level on the PowerEdge T310. These energy-optimized technologies are designed to increase energy efficiency within the server while continuing to deliver the performance your business requires. Built with lower wattage power supplies than its predecessor, the PowerEdge T310 offers highly efficient cabled or redundant power supply options. Also included in the T310 are highly efficient fans, designed to spin faster in accordance with server workload demands and help reduce unnecessary noise when possible. In addition, the logical component layout aids with airflow direction, helping to keep the server cool.

Simplified systems management

The Lifecycle Controller is the engine for advanced embedded management and is delivered as part of the optional iDRAC Express or iDRAC Enterprise in the PowerEdge T310. The Lifecycle Controller helps to deliver faster server deployment and update capabilities from a bare-metal, pre-operating system environment. With the Unified Server Configurator (USC) interface, the USC tool provides a single interface that enables efficient operating system deployment with built-in driver installations, firmware updates, hardware configuration, and diagnostics for the system. Servers selected with hot-pluggable hard drives will also get the benefit of an interactive LCD that can be accessed remotely using optional iDRAC Express or iDRAC Enterprise for system alerts and power usage as well as select boot-up options.

Also part of the Dell OpenManage™ portfolio is the Dell Management Console, which is included with every Dell server and provides IT administrators with a consolidated view of their IT infrastructure.

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Feature	PowerEdge T310 technical specification	
Form factor	Tower	
Processors	Quad-core Intel® Xeon® processor 3400 series Dual-core Intel Celeron® G1101 Intel Pentium® G6950 Dual-core Intel Core® i3 processor 500 series	
Processor sockets	1	
Front Side Bus (FSB) or HyperTransport	Intel DMI (Direct Media Interface)	
Cache	8MB	
Chipset	Intel 3400	
Memory[1]	Up to 32GB (6 DIMM slots): 1GB/2GB/4GB/8GB DDR3 up to 1333MT/s	
I/O slots	**5 PCIe G2 slots:** Two x8 slots One x4 slot Two x1 slots	
RAID controller	**Internal:** PERC H200 (6Gb/s) PERC H700 (6Gb/s) with 512MB battery-backed cache; 512MB, 1GB Non-Volatile battery-backed cache SAS 6/iR PERC 6/i with 256MB battery-backed cache PERC S100 (software based) PERC S300 (software based)	**External:** PERC H800 (6Gb/s) with 512MB of battery-backed cache; 512MB, 1GB Non-Volatile battery cache PERC 6/E with 256MB or 512MB of battery-backed cache **External HBAs (non-RAID)**: 6Gbps SAS HBA SAS 5/E HBA LSI2032 PCIe SCSI HBA
Drive bays	Cabled hard drive options: Up to four 3.5" SAS or SATA drives Hot-plug hard drive options: Up to four 3.5" SAS or SATA, or 2.5" SAS or SSD drives	
Maximum internal storage[1]	Up to 12TB	
Hard drives	**Hot-plug hard drive options:** 2.5" SATA SSD, SAS (10K) 3.5" SAS (15K, 10K), nearline SAS (7.2K), SATA (7.2K) **Cabled hard drive options:** 3.5" SAS (15K, 10K), nearline SAS (7.2K), SATA (7.2K)	
Communications	Broadcom® NetXtreme® 5709 Dual Port Gigabit Ethernet NIC, Copper, with TOE PCIe x4 Broadcom NetXtreme 5709 Dual Port Gigabit Ethernet NIC, Copper, TOE/iSCSI PCIe x4 Intel® PRO/1000 PT Single Port Adapter, Gigabit Ethernet NIC, PCIe x 1 Intel Gigabit ET Dual Port Adapter, Gigabit Ethernet NIC, PCIe x4 Intel Gigabit ET Quad Port Adapter, Gigabit Ethernet NIC, PCIe x4 Intel Gigabit ET Dual Port Server Adapter and Intel Gigabit ET Quad Port Server Adapter **Optional add-in HBAs:** QLogic® QLE 2462 FC4 Dual Port 4 Gbps Fiber Channel HBA QLogic QLE 2460 FC4 Single Port 4 Gbps Fiber Channel HBA Emulex® LPe-11002 FC4 Dual Port 4 Gbps Fiber Channel HBA, PCIe x4 Emulex LPe-1150 FC4 Single Port 4 Gbps Fiber Channel HBA, PCIe x4	
Power supply	Single-cabled power supply (375W)/optional redundant power supply (400W)	
Availability	Quad-pack LED diagnostic, interactive LCD with hot-plug hard drive chassis, hot-plug hard drive, redundant PSU	
Video	Matrox® G200eW with 8MB memory	
Remote management	iDRAC6	
Systems management	Dell™ OpenManage™ BMC, IPMI 2.0 compliant Unified Server Configurator Lifecycle Controller enabled through optional iDRAC6 Express, iDRAC6 Enterprise, and vFlash media	
Operating systems	Microsoft® Windows Server® 2012 Microsoft Windows® Small Business Server 2011 Microsoft Windows Small Business Server 2008 Microsoft Windows Server® 2008 SP2, x86/x64 (x64 includes Hyper-V®) Microsoft Windows Server 2008 R2 SP1, x64 (includes Hyper-V v2) Microsoft Windows HPC Server 2008 Novell® SUSE® Linux® Enterprise Server Red Hat® Enterprise Linux® For more information on the specific versions and additions, visit Dell.com/OSsupport.	
Featured database application	Microsoft SQL Server® solutions (see Dell.com/SQL)	

[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.

Dell Services

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 TCO.

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