DELL™ POWEREDGE™ T610 SERVER

The Dell PowerEdge T610 server is a key data center building block for IT professionals seeking the highest level of performance, availability, and expandability in a 2-socket server. Ideally suited for small and medium businesses and remote office customers, the T610 delivers enhanced virtualization, improved design, and energy efficiency in a design engineered to address current and future business needs.

STRONG IT FOUNDATION

A solid IT foundation is critical for business success. The Dell PowerEdge T610 contributes to that foundation by offering many of the virtualization, system management, and usability capabilities you need while providing impressive power and thermals for overall energy efficiency. This mainstream two-socket Intel®-based tower server includes a rack-mount option and supports mission-critical applications and data processing. Built for reliability, this workhorse server helps deliver peace of mind and excellent value.

PURPOSEFUL DESIGN

The T610 takes advantage of Dell's system commonality. Once your IT managers learn one system, they understand how to manage next-generation Dell servers. Logical component layout and power supply placement also provide a straightforward installation and redeployment experience. Inspired by IT professionals, the T610 is built to simplify daily operations and maximize uptime.

In addition, Dell's latest PowerEdge servers provide a graphical and interactive LCD for system health monitoring, alerting and control of basic management configuration right in the front of the server. Customers have an AC power meter and ambient temperature thermometer built into the server which they can monitor on this display without any software tools.

ENERGY-OPTIMIZED TECHNOLOGY

Using the latest Energy Smart technologies, the T610 helps reduce power consumption while increasing performance capacity over previous generations of Dell towers. Enhancements include efficient power supply units right-sized for system requirements, effective system-level design efficiency, policy-driven power and thermal management, and highly efficient standards-based Energy Smart components.

These features are designed to maximize energy usage across our latest core data center servers without compromising performance.

ADVANCED VIRTUALIZATION

Featuring Intel® Xeon® 5500 series processors, embedded hypervisors, 100% integrated I/O, and up to 100% more memory capacity than the previous server generations, the Dell PowerEdge T610 delivers better overall system performance and greater virtual machine-per-server capacity than ever before. With optional factory-integrated virtualization capabilities, you get tailored solutions – built with the latest industry-standard technologies from Dell and our trusted partners – which allow you to streamline deployment and simplify virtual infrastructures. Choose your hypervisor from market leaders such as VMware®, Citrix®, and Microsoft®, and enable virtualization with a few mouse clicks.

SIMPLIFIED SYSTEMS MANAGEMENT

The next generation Dell OpenManage™ suite offers enhanced operations and standards-based commands designed to integrate with existing systems for effective control.

LIFECYCLE CONTROLLER

Lifecycle Controller is the engine for advanced systems management integrated on the server. Lifecycle Controller simplifies administrator tasks to perform a complete set of provisioning functions such as system deployment, system updates, hardware configuration and diagnostics from a single intuitive interface called Unified Server Configurator (USC) in a pre-OS environment. This eliminates the need to use and maintain multiple pieces of disparate CD/DVD media.

DELL MANAGEMENT CONSOLE (DMC)

The new Dell Management Console, powered by Altiris from Symantec, delivers a single view and a common data source into the entire infrastructure. Dell Management Console is built on the Symantec™ Management Platform (formerly Altiris® Notification Server), an easily extensible, modular foundation that can provide basic hardware

management or more advanced functions such as asset and security management. Dell Management Console helps reduce or eliminate manual processes so less time and money is spent keeping the lights on and more time can be spent on strategic uses of technology.

DELL GLOBAL SERVICES

Dell Global Services simplify the management of your IT environment so you get up and running quickly with lower deployment costs, fewer hassles, and less time spent on non-strategic tasks. You pay only for the services you need, gain instant access to the latest innovations without additional infrastructure investment, and take your business from maintenance to momentum.

Many IT services today are outdated, expensive, inflexible, and people-intensive. As a result, businesses can be burdened with lengthy contracts, trapped in old technology, and spending much more than is necessary just to keep the lights on. Dell is changing all of that by integrating cutting-edge technologies into our products and global service infrastructure to forever change the way services are delivered, purchased, and managed. Tapping directly into Dell's world-class capabilities, resources, and platform in this way will make it easier to reclaim valuable IT time and resources.

Many of the service investments Dell has made are available through or in conjunction with Dell's global network of PartnerDirect channel partners. For more information, please visit DELL.COM/Services or contact your local Dell PartnerDirect Registered partner.

FEATURES	T610
Form Factor	Tower or 5U rack-mountable
Processors	Latest Dual-Core or Quad-Core Intel® Xeon® 5500 Series Processors
Processor Sockets	2
Front Side Bus or HyperTransport	Intel® QuickPath Interconnect (QPI)
L2/L3 Cache	4MB and 8MB
Chipset	Intel 5520 (Tylersberg)
Memory	Up to 192GB (12 DIMM slots/6 per-processor): 1GB/2GB/4GB/8GB/16GB DDR3 800MHz, 1066MHz or 1333MHz
I/O Slots	2 PCIe x8 + 3 PCIe x4 G2
Drive Controller	PERC6/i or SAS6/iR, PERC 5/E and PERC 6/E
RAID Controller	**Internal:** PERC H200 (6Gb/s) PERC H700 (6Gb/s) with 512MB 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 PERC 6/E with 256MB or 512MB of battery-backed cache **External HBAs (non-RAID):** SAS 5/E HBA LSI2032 PCIe SCSI HBA
Drive Bays	8 x 2.5" Hard Drive Option or 8 x 3.5" Hard Drive Option; Optional support half-height TBU
Maximum Internal Storage	Up to 8TB SATA, Near Line SAS, SAS, or SSD
Hard Drives	2.5" SAS (10K RPM): 36GB, 73GB, 146GB, 147GB, 300GB 2.5" SAS (15K RPM) 36GB, 73GB 3.5" SAS (10K): 400GB 3.5" SAS (15K): 73GB, 146GB, 300GB , 450GB 3.5" Near-Line SAS (7.2K): 500GB, 750GB, 1TB 2.5" SATA II (5.4K RPM): 80GB, 160GB, 250GB 2.5" SATA II (7.2K RPM): 80GB, 120GB, 160GB, 250GB 2.5" 500GB SATA 3.5" SATA (7.2K): 80 GB,160GB, 250GB, 500GB, 750GB, 1TB 3.5" 2.0TB SATA 2.5" SSD: 25GB, 50GB
Network Interface Cards	One dual port embedded Broadcom® NetXtreme II™ 5709c Gigabit Ethernet NIC with failover and load balancing. Optional 1GBe and 10GBe add-in NICs Broadcom® NetXtreme II® 57711 Dual Port Direct Attach 10Gb Ethernet PCI-Express Network Interface Card with TOE and iSCSI Offload Intel® Gigabit ET Dual Port Server Adapter and Intel® Gigabit ET Quad Port Server Adapter
Power Supply	Two Hot plug redundant PSUs - Energy Smart PSU (570W) or two hotplug 870W PSUs
Availability	DDR3 memory; ECC; hot-plug hard drives; optional hot-plug redundant power supplies; dual embedded NICs with failover and load balancing support; optional PERC6/i integrated daughtercard controller with battery-backed cache; hot-plug redundant cooling; tool-less chassis; fibre and SAS cluster support; validated for Dell/EMC SAN
Video	Integrated Matrox G200 with 8MB shared video memory
Remote Management	iDRAC6
Systems Management	Dell™ OpenManage™
Fans	Optional redundant cooling
Acoustics	Typically configured* T610 2.5" HDD chassis in 23 ± 2 C ambient Idle: LwA-UL** = 5.2 bels, LpAm*** = 36 dBA
Rack Support	Support for sliding ReadyRails™ for 4-post Racks and Static ReadyRails™ for 4-post & 2-post Racks
Operating Systems[1]	Microsoft® Windows® Small Business Server 2008 Microsoft® Windows® Essential Business Server 2008 Microsoft Windows® Server 2008 SP2, x86/x64 (x64 includes Hyper-V™) Microsoft Windows® Server 2008 R2, x64 (includes Hyper-V™ v2) Microsoft® Windows® HPC Server 2008 Novell® SUSE® Linux Enterprise Server Red Hat® Enterprise Linux Sun® Solaris™ For more information on the specific versions and additions, visit www.dell.com/OSsupport.
(Optional) Embedded Hypervisor	Citrix® XenServer® VMware® ESXi v3.5

[1] Windows Server® 2008 R2 Foundation allows only 15 user accounts and requires certain Active Directory (AD) configurations. If not configured according to the product documentation, the software will generate warnings to correct the configuration. After a certain amount of time, the software will only run for one hour at a time until the configuration is corrected. For more information about these features review the product documentation located at http://go.microsoft.com/fwlink/?LinkId=143551.

SIMPLIFY YOUR SERVERS AT DELL.COM/PowerEdge

** 'Typical configuration' means the system is populated with projected average quantity, type, capacity, speed, etc., of components

*** LwA – UL is the upper limit sound power levels (LwA) calculated per section 4.4.1 of ISO 9296 (1988) and measured in accordance to ISO 7779 (1999)

**** LpAm is the average bystander position A-Weighted sound pressure level calculated per section 4.4.4 of ISO 9296 (1988) and measured in accordance to ISO 7779 (1999)