



## Dell Precision T5500

The Dell™ Precision™ T5500 Workstation is a productivity machine with lightning-fast 64-bit multi-core Intel® Xeon® processors, impressive graphics, and exceptional memory capacity that work together in a flexible and innovative compact chassis designed to deliver performance, scalability, and now, lifecycle stability, exclusively for OEM customers.

### Run your operations better and cut costs

Now there is a long-life option for the T5500, which will extend the ability to purchase the system in specific configurations for three full years. This workstation offers dependable system stability with consistent components and BIOS for the life of the product, allowing you to save costs and resources by avoiding product generation changes.

Developed in close collaboration with hardware and software partners, the Dell Precision T5500 Workstation combines a flexible, compact chassis and intelligent power management to help deliver an ideal solution for power-sensitive environments. Designed for performance, reliability, and scalability in environments where space is at a premium, the Dell Precision T5500 allows you to power through complex tasks and complete your projects faster than the previous generation.<sup>1</sup>

- Next-generation 45nm quad-core Intel Xeon Processor X5500 Series ignites stunning levels of performance unleashed by Intel Quick Path Interconnect Technology that provides high-speed interconnects per independent processing core
- Outstanding performance for memory-intensive applications delivered with the help of an integrated memory controller on the processor with dedicated three-channel high-speed memory architecture, multi-level shared cache, and high-speed point-to-point interconnects
- Dual-native PCIe x16 Gen 2 graphics slots for outstanding graphics performance, cost-effective quad-monitor support, and GPU-based personal supercomputing
- Designed to deliver increased performance for single- and multi-threaded applications with advanced engineering and thermal design enabling extended use of Intel® Turbo Boost Technology

### Outstanding scalability and power consumption in a compact chassis

With additional DIMM slots to expand memory capacity up to 48GB2 and an innovative chassis designed for flexibility, the Dell Precision T5500 can provide a highly scalable, cost-effective architecture with performance capabilities that can fundamentally change the way you work.

If you're looking to optimize efficiency and power usage (85% energy-efficient power supply) with a platform designed to support high-performing, multi-core Intel Xeon processors today and into the future, the Dell Precision T5500 is an ideal choice.

## Dell Precision T5500

Long-life workstation for OEMs. Big performance, small footprint.

Feature	Dell™ Precision™ T5500 Workstation
Processors	Quad-core Intel® Xeon® 5500 series processors with up to 5.8GT/s (Intel QuickPath ) up to 8MB shared cache, Turbo Mode and HyperThreading technology on select processors. All processors are 64-bit, support Intel DBS (demand-based switching) and Intel VT (Intel Virtualization Technology). The long-life system supports the E5504 and E5540 processor options for consistency through the product lifecycle.
Operating Systems	Genuine Windows Vista® Ultimate, Genuine Windows Vista Business 32-bit, Genuine Windows Vista Business 64-bit, Downgrade rights to Genuine Windows® XP Pro SP2 and Genuine Windows XP Professional x64 Edition, Red Hat® Enterprise Linux® WS v.5.3 Intel EM64T (Also certified to run Red Hat Enterprise Linux Version 4.7 64-bit)
Chipset	Intel 5520 chipset
Memory <sup>2</sup>	Up to 48GB <sup>2</sup> with optional dual processors installed. Three-channel memory architecture per processor with up to 1333MHz and up to 1066MHz DDR3 ECC Registered DIMM memory. Up to 9 DIMM slots; 6 slots (2 per channel) on motherboard and additional 3 slots on optional 2nd processor riser card.
Flash BIOS	BIOS 8MB flash memory for system BIOS; SMBIOS 2.5 support
Graphics <sup>3</sup>	Support for 2 PCI Express x16 Gen 2 graphics cards and with up to 1GB graphics memory including: Quadro FX3800 and Quadro FX1800. Other graphics options are available through custom factory integration but availability may not extend through the full life of the system.
Hard Drives	SATA 3.0Gb/s 7200 RPM with 16MB DataBurst Cache™ 160GB and 500GB SAS 15K RPM 300GB <sup>4</sup> . Chassis supports up to two internal drives plus a 3rd drive in flex bay (mini-tower) (1.5TB <sup>4</sup> maximum storage capacity). 4 HDD tower configuration for rack environments available by special order. Single RAID 0 data volumes greater than 2TB are available as factory-installed option with the integrated controller and optional PERC6 RAID adapter under Genuine Windows® XP64, Genuine Windows Vista® 32Bit/64Bit operating systems.
Hard Drive Controller	The T5500 uses a SATA 3.0GB/s host controller (part of the integrated Intel ICH10R I/O controller hub); Optional SAS 6/ir controller supports SAS drives with host-based RAID 0 or 1; Optional PERC 6/i PCIe SAS/ SATA hardware RAID card supports RAID 0, 1, 5, (RAID5 in mini-tower orientation only)
Network Controller	Integrated Broadcom® 5754 Gigabit Ethernet controller. 2nd Gigabit port is available with the optional PCIe Broadcom Gigabit controller card.
Audio Controller	Integrated High-Definition Audio (Rev 1.0 Specification) implemented with a two-chip audio solution comprising the ADI 1984a High-Definition Audio CODEC and the ICH10's integrated AC97/High-Definition digital controller.
Standard I/O Ports	Eleven USB 2.0: two on front panel, six on back panel, three internal: one serial; one parallel; two PS/2; one RJ-45; stereo line-in and headphone line-out on back panel; microphone and headphone connector on front panel; one ESATA port on back panel, front and rear IEEE 1394a ports are provided with optional 1394 PCIe card.
<b>Rack-mountable Chassis</b>	
Dimensions	<b>Mini-tower orientation with feet:</b> (WxHxD) 6.73" x 17.64" x 18.54"; 17.1 cm x 44.8 cm x 47.1 cm (maximum including badge)
Slots and Bays	<b>Bays:</b> Two internal 3.5" HDD bays; two external 5.25" optical bays. One external 3.5" flex bay for floppy or media card reader or third (SATA) HDD, in mini-tower orientation. <b>Slots:</b> All full length except as noted. Two PCIe x16 slots wired as x8 (half length); two PCIe x16 Gen 2 graphics slots up to 150W each; one PCI-X 64bit/100MHz slot with support for 3.3V or universal cards; one PCI 32-bit/33MHz 5V slot. 875W 85% Power Factor Correcting (PFC) power supply <sup>5</sup> .
Monitor Compatability	Compatible with performance flat-panel displays, Dell™ UltraSharp™ widescreen and standard flat-panel displays from 17" viewable image size to 30" viewable image size; Analog flat-panel displays also available.
Keyboard	Dell-Enhanced QuietKey™ USB; optional Enhanced Multimedia USB or Smart Card keyboard USB
Mouse	Dell USB two-button mouse or optional Dell USB optical two-button scroll mouse
Optional Speakers	Internal chassis speaker; Dell two- and three-piece stereo system; Dell sound bar for all flat-panel displays
Storage Devices	<b>Optional Removable:</b> DVD-ROM and DVD+/-RW (single sourced) <b>Optional Modem:</b> Dell 56K v.92 Data/Fax PCI modem
Security Options	<b>Software:</b> Trusted Platform Module 1.2 (TPM 1.2); Chassis intrusion switch; Setup/BIOS Password; I/O Interface Security <b>Hardware:</b> Kensington® Lock slot, Padlock ring, Internal front-panel chassis lock
Environmental and Regulatory	Please refer to Safety Best Practices information on the Regulatory Compliance Homepage on <a href="http://www.dell.com">www.dell.com</a> at the following location: <a href="http://www.dell.com/regulatory_compliance">www.dell.com/regulatory_compliance</a>
Service and Support	<b>Base:</b> 3-Year Limited Hardware Warranty <sup>6</sup> with 3 years standard Next Business Day (NBD) On-Site After Remote Diagnosis <sup>7</sup> parts replacement and 3 years NBD On-Site Service After Remote Diagnosis <sup>7</sup> <b>Recommended:</b> Optional Dell ProSupport <sup>8</sup> is designed to rapidly respond to your business's needs, protect your investment and sensitive data, and provide enhanced proactive support services to help reduce risk and complexity within your IT environment

<sup>1</sup>Based on testing by Dell Labs in January 2009.

<sup>2</sup>Maximum memory with dual processors installed. A 64-bit operating system is required to support 4GB or more of system memory.

<sup>3</sup>Significant system memory may be used to support graphics, depending on system memory size and other factors.

<sup>4</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. With Dell Factory Image Restore installed, Windows Vista users will have 10GB of their hard drive capacity set aside for a recovery image.

<sup>5</sup>The T5500 uses a very efficient Active Power Factor Correction (APFC) power supply. Dell recommends only Universal Power Supplies (UPS) based on Sine Wave output for APFC PSUs, not an approximation of a Sine Wave, Square Wave or quasi-Square Wave (see UPS Technical Specifications). If you have questions, please contact the manufacturer to confirm the output type.

<sup>6</sup>For a copy of Ltd. hardware warranty, please write Dell U.S.A. L.P., Attn: Warranties, One Dell Way, Round Rock, TX 78682 or see [www.dell.com/warranty](http://www.dell.com/warranty).

<sup>7</sup>Remote Diagnosis is determination by online/phone technician of cause of issue; may involve customer access to inside of unit and multiple or extended sessions. If issue is covered by Limited Hardware Warranty [www.dell.com/warranty](http://www.dell.com/warranty) and not resolved remotely, technician and/or part will be dispatched, usually in 1 or 2 business days following completion of Remote Diagnosis. Availability varies. Other conditions apply.

<sup>8</sup>Availability and terms of Dell Services vary by region. For more information, visit [www.dell.com/servicesdescriptions](http://www.dell.com/servicesdescriptions)

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