

Windows®. Life without Walls™. Dell recommends Windows 7.



# Dell Precision T3500

## Affordable power and performance

Your work isn't entry level, so why consider a workstation that delivers anything less than advanced levels of performance? With the Dell Precision™ T3500, you don't have to. Experience the power, scalability and reliability you've been dreaming about with a system that's specifically designed for professionals as demanding as their complex applications.

To provide you with exceptional flexibility and scalability, the Dell Precision T3500 comes with your choice of dual-, quad- or 6-core Intel® Xeon® 3500 or 3600 series processors, up to 24GB<sup>1</sup> of DDR3 ECC memory and dual graphics slots. These advanced features combine to deliver a computing experience that's incredibly rich, incredibly powerful and incredibly fast.

- Next-generation Intel Xeon 3500 and 3600 series processors ignite 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 processor-dedicated three-channel memory architecture, multi-level shared cache and high-speed point-to-point interconnects
- Memory scalability up to 24GB<sup>1</sup> with DDR3 ECC DIMMs
- 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

## Visual realism with high-performance OpenGL graphics<sup>2</sup>

Bring your graphics to the next level with our intelligent selection of ISV-certified, workstation-class graphics cards. Our ultra-high-end graphic solutions deliver outstanding visualization capabilities for whatever application you are running. Enhanced graphics are required whether you work in computer-aided design, architecture, engineering or digital content creation. Dell Precision workstations provide superb OpenGL® 3D performance or dependable and affordable 2D performance to help make you successful in your designs, animation modeling, software development or whatever else you use your workstation to create.

## Outstanding scalability in a compact chassis

In today's professional world of engineering, software development and digital content creation, you need precision to be successful. We customize each and every Dell Precision workstation to help provide you with exceptional performance and scalability. Whatever your needs — dual-core or quad-core, ECC or non-ECC memory, flexible dual-orientation chassis — the Dell Precision T3500 provides a highly scalable architecture that delivers outstanding speed and reliability to the cost-conscious professional.

Imagine having the freedom to work the way you've always wanted. With Dell Precision, you can. Plus, with ISV application certifications, you know your system is performance tuned to help ensure that your applications will run smoothly.

## Peace of mind through ISV application certification

Dell partners with leading Independent Software Vendors (ISVs) to certify system and application compatibility to help ensure flawless compatibility and optimized performance in demanding workstation environments. And to ensure access to the latest productivity-enhancing technology solutions, Dell invests in the workstation ISV community by providing the hardware platforms needed to further multi-threaded application development. By maintaining strong relationships with software developers, Dell engineers can provide you with ongoing optimization and support should you need it.

## Dell Precision T3500

The Dell Precision T3500 workstation is a productivity machine with a choice of lightning-fast 64-bit dual-, quad- or 6-core Intel Xeon processors, impressive graphics and exceptional memory capacity that work together in a flexible and innovative compact chassis to deliver performance, scalability and flexibility

Feature	Dell Precision T3500 Workstation Technical Specifications																								
Processors	Intel® Xeon® 3500 and 3600 series processors up to six-cores with up to 6.4GT/s (Intel QuickPath Interconnect) and up to 12MB shared cache. Turbo Boost Mode on select processors All processors are 64-bit, support Intel DBS (demand-based switching) and Intel VT (Intel Virtualization Technology) Note: Intel TXT is not supported. Turbo Mode and HyperThreading technology on select processors																								
Operating Systems	<ul style="list-style-type: none"> <li>• Genuine Windows® 7 Ultimate 32-Bit; Genuine Windows® 7 Ultimate 64-Bit</li> <li>• Genuine Windows® 7 Professional 32-Bit; Genuine Windows® 7 Professional 64-Bit</li> <li>• Genuine Windows 7 Ultimate 32-Bit with XP mode; Genuine Windows 7 Ultimate 64-Bit with XP mode</li> <li>• Genuine Windows Vista® Ultimate SP1, 32-Bit; Genuine Windows Vista® Ultimate SP1, 64-Bit</li> <li>• Genuine Windows Vista® Business SP1, 32-Bit; Genuine Windows Vista® Business SP1, 64-Bit</li> <li>• Red Hat® Enterprise Linux® WS v.5.3 EM64T (Also certified to run Red Hat Enterprise Linux Version 4.7 64-Bit)</li> </ul>																								
Chipset	Intel X58																								
Memory <sup>2</sup>	Up to 24GB <sup>3</sup> 1333MHz ECC and non-ECC memory in 6 DIMM slots																								
Flash BIOS	BIOS 8MB flash memory for system BIOS; SMBIOS 2.5 support																								
Graphics <sup>2</sup>	Support for 2 PCI Express® x16 Gen 2 graphics cards up to 150W. 2 to 8 monitor configurations depending on card(s) chosen. <table border="0"> <tr> <td><b>High End 3D</b></td> <td><b>Mid-range 3D</b></td> <td><b>Entry 3D</b></td> <td><b>Professional 2D</b></td> </tr> <tr> <td>NVIDIA® Quadro® 5000</td> <td>ATI FirePro V7800</td> <td>ATI FirePro V4800</td> <td>ATI FireMV™ V2260</td> </tr> <tr> <td>NVIDIA Quadro 4000</td> <td>ATI FirePro V5800</td> <td>NVIDIA Quadro 600</td> <td>NVIDIA Quadro NVS 420</td> </tr> <tr> <td>NVIDIA Quadro FX 4800</td> <td>NVIDIA Quadro 2000</td> <td>NVIDIA Quadro FX 580</td> <td>NVIDIA Quadro NVS 295</td> </tr> <tr> <td></td> <td>NVIDIA Quadro FX 3800</td> <td></td> <td></td> </tr> <tr> <td></td> <td>NVIDIA Quadro FX 1800</td> <td></td> <td></td> </tr> </table>	<b>High End 3D</b>	<b>Mid-range 3D</b>	<b>Entry 3D</b>	<b>Professional 2D</b>	NVIDIA® Quadro® 5000	ATI FirePro V7800	ATI FirePro V4800	ATI FireMV™ V2260	NVIDIA Quadro 4000	ATI FirePro V5800	NVIDIA Quadro 600	NVIDIA Quadro NVS 420	NVIDIA Quadro FX 4800	NVIDIA Quadro 2000	NVIDIA Quadro FX 580	NVIDIA Quadro NVS 295		NVIDIA Quadro FX 3800				NVIDIA Quadro FX 1800		
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Hard Drives <sup>3</sup>	Chassis supports up to four internal SATA drives (8.0TB storage maximum) or three SAS drives (SAS drives require SAS 6/iR controller card) <table border="0"> <tr> <td><b>SATA 3.0GB/s 7200RPM</b></td> <td><b>SATA 3.0GB/s 10K RPM</b></td> <td><b>SAS 15K RPM</b></td> <td><b>SSD</b></td> </tr> <tr> <td>Up to 2.0TB<sup>4</sup> with 8MB DataBurst Cache</td> <td>Up to 600GB<sup>4</sup> with 16MB DataBurst™ Cache</td> <td>Up to 600GB<sup>4</sup></td> <td>256GB<sup>4</sup></td> </tr> </table>	<b>SATA 3.0GB/s 7200RPM</b>	<b>SATA 3.0GB/s 10K RPM</b>	<b>SAS 15K RPM</b>	<b>SSD</b>	Up to 2.0TB <sup>4</sup> with 8MB DataBurst Cache	Up to 600GB <sup>4</sup> with 16MB DataBurst™ Cache	Up to 600GB <sup>4</sup>	256GB <sup>4</sup>																
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Communications	<b>Network Controller:</b> Integrated Broadcom® 5761 Gigabit Ethernet controller with Remote Wake UP and PXE support <b>Modem:</b> Optional Dell 56K v.92 Data/Fax PCI modem																								
Audio Controller	Integrated High-Definition Audio, 24-bit analog-to-digital; 24-bit digital-to-analog stereo conversion																								
Standard I/O Ports	Eleven USB 2.0: two on front panel, six on back panel, three internal (UDOC) on motherboard; eSATA: one rear; 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; IEEE 1394a ports are provided with optional 1394 PCIe card																								
Dual-orientation Desktop	<b>Dimensions: Desktop orientation with feet:</b> (WxHxD) 17.6" x 6.8" x 18.4"; 44.7cm x 17.2cm x 46.8cm (maximum including badge) <b>Mini-tower orientation:</b> (HxWxD) 17.6" x 6.8" x 18.4"; 44.7cm x 17.2cm x 46.8cm <b>Bays:</b> Two internal 3.5" HDD bays; two external 5.25" optical bays, one of which can accommodate a third HDD in desktop orientation; 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 x8 slot wired as x4 (half-length); two PCIe x16 Gen 2 graphics slots; two PCI slots <b>Power Supply:</b> 525W 85PLUS Power Factor Correcting (PFC) power supply; 525W Active Power Factor Correcting (PFC) power supply																								
Monitor Compatibility	Compatible with performance flat-panel displays, Dell UltraSharp™ widescreen and standard flat-panel displays from 17" viewable to 30" viewable; analog flat-panel displays also available																								
Keyboard	Dell Enhanced Quietkey™ USB or 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	Optional Speakers Internal chassis speaker, Dell two- and three-piece stereo system, or Dell sound bar for all flat-panel displays																								
Storage Devices	CD-RW/DVD Combo; DVD-ROM; DVD+/-RW; Blu-ray; USB Floppy Drive; USB media card reader																								
Security	<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 Warranty <sup>5</sup> with 3-year standard Next Business Day (NBD) On-Site <sup>6</sup> parts replacement and 3-year NBD On-Site Service <sup>6</sup> <b>Recommended:</b> Dell ProSupport <sup>7</sup> is designed to rapidly respond to your business's needs, help protect your investment and sensitive data, and provide enhanced proactive support services to help reduce risk and complexity within your IT environment																								

## Simplify your workstation at [dell.com/Precision](http://dell.com/Precision)

<sup>1</sup> A 64-bit operating system is required to support 4GB or more of system memory.

<sup>2</sup> Significant system memory may be used to support graphics, depending on system memory size and other factors.

<sup>3</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.

<sup>4</sup> The Dell Precision T3500 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>5</sup> For copy of Ltd Hardware Warranty, write Dell USA LP, Attn: Warranties, One Dell Way, Round Rock, TX 78682 or see [www.dell.com/warranty](http://www.dell.com/warranty)

<sup>6</sup> May be provided by third-party. Technician dispatched, if necessary, following phone-based troubleshooting. Availability varies. See [www.dell.com/servicecontracts](http://www.dell.com/servicecontracts) for details.

<sup>7</sup> Availability and terms of Dell Services vary by region. For more information, visit [www.dell.com/service-descriptions](http://www.dell.com/service-descriptions).

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