

# DELL PRECISION™ T5400 WORKSTATION



THE DELL PRECISION™ T5400 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 TO DELIVER PERFORMANCE, SCALABILITY AND FLEXIBILITY.

## **BIG PERFORMANCE. SMALL FOOTPRINT**

Looking for a high-end workstation that's designed to deliver groundbreaking performance and exceptional processing power in space constrained environments? Then look no further. Developed in close collaboration with hardware and software partners, the Dell Precision T5400 workstation combines a flexible, compact chassis and intelligent power management (up to 33% quieter than its predecessor) to deliver an ideal solution for financial trading floors, performance clusters, render farms and other crowded, power-sensitive environments. Optimised for performance, reliability and scalability in environments where space is at a premium, the Dell Precision T5400 lets you power through complex tasks and complete your projects faster than the previous generation.

- High frequency 64-bit quad and dual-core Intel Xeon processors can deliver performance gains over previous generation processors when running multi-threaded applications or multiple applications concurrently.
- Memory scalability up to 32GB<sup>1</sup> - quad-channel FB DIMM memory architecture, delivers outstanding compute performance in a compact, rack ready form factor
- Latest 15K SAS (Serial attached SCSI) hard disk storage delivers up to 30% higher performance than SATA 10K drives<sup>2</sup>
- A flexible dual-orientation chassis, with dual x16 Gen2 graphics slots for outstanding graphics performance and cost effective quad monitor support.

## **VISUAL REALISM WITH HIGH-PERFORMANCE OPENGL GRAPHICS**

Dell Precision offers an intelligent selection of high-performance graphics cards that can satisfy a range of customer needs from outstanding OpenGL® 3D performance to dependable 2D performance.

## **OPTIMAL SCALABILITY IN A COMPACT CHASSIS**

With additional DIMM slots to expand memory capacity up to 32GB<sup>1</sup>, and an innovative chassis designed for flexibility, the Dell Precision T5400 provides a highly scalable, cost-effective architecture with performance capabilities that can fundamentally change the way you work.

If you're looking to optimise efficiency and power usage (80% + energy efficient power supply) with a platform designed to support higher performing, multi-core Intel Xeon processors today and into the future, the Dell Precision T5400 is the ultimate choice. With Independent Software Vendor (ISV) application certification, you can be sure your applications will run efficiently on Dell Precision workstations, today and tomorrow.

## **PEACE OF MIND THROUGH ISV APPLICATION CERTIFICATION**

Dell partners with leading ISVs to certify system and application compatibility to ensure optimised performance in demanding workstation environments. To assure access to the latest productivity enhancing technology solutions, Dell invests in the workstation ISV community by providing the hardware platforms needed to further multithreaded and 64-bit application development. By maintaining strong relationships with ISV application developers, Dell engineers can provide ongoing optimisation and support, should you need it.



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## SYSTEM

### PROCESSORS

Dual-core Intel® Xeon® 5200 series processors with 1333MHz front side bus and 6MB shared cache; Quad-core Intel® Xeon® 5400 series processors with 1333MHz front side bus and 2 x 6MB shared cache; All processors are 64-bit, support Intel DBS (demand based switching) and Intel® VT (Intel® Virtualization Technology) .

### OPERATING SYSTEMS

Genuine Windows Vista® Ultimate; Genuine Windows Vista® Business – 32Bit and 64Bit  
Genuine Windows® XP Pro SP2  
Genuine Windows® XP Professional x64 Edition  
Red Hat® Enterprise Linux® WS v.5 Intel® EM64T (Also certified to run Red Hat Enterprise Linux Version 4 64-bit)

### CHIPSET

Intel® 5400 chipset

### MEMORY<sup>1</sup>

Up to 32GB1 quad-channel architecture Fully Buffered DIMM 667MHz ECC memory; in 8 DIMM slots. DIMMs up to 2GB at 667MHz

### 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 150 watts and with up to 1.5GB graphics memory including: NVIDIA Quadro® FX 5600; NVIDIA Quadro® FX 4600; Quadro® FX 1700; NVIDIA Quadro® FX570; NVIDIA Quadro® NVS 290; All graphics cards support dual monitor configurations

### HARD DRIVES

SATA 3.0Gb/s 7200 RPM with 16MB DataBurst Cache up to 1.0TB<sup>4</sup> SATA 3.0Gb/s 7200RPM with 8MB DataBurst Cache™ up to 250GB<sup>4</sup>; SATA 3.0Gb/s 10K RPM with 16MB DataBurst Cache up to 160GB<sup>4</sup>; SAS 15K RPM up to 300GB<sup>4</sup>; Dual orientation chassis supports up to two internal drives plus a 3rd drive in flex bay (mini-tower) or optical bay (desktop). (3.0 TB<sup>4</sup> maximum storage capacity). Max 2 SAS HDD in desktop chassis

### HARD DRIVE CONTROLLER

The T5400 uses a SATA 3.0Gb/s host controller (part of the integrated Intel ESB2 south bridge chipset) Optional SAS 6/ir controller supports SAS drives with host based RAID 0, 1, Optional PERC 6/i PCI-e 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 PCI-e Broadcom Gigabit controller card

### AUDIO CONTROLLER

Integrated High Definition Audio (Rev 1.0 Specification) with Sigmatel STAC9200 High Definition Audio CODEC and Intel ESB2's integrated AC97/ High Definition digital controller

### STANDARD I/O PORTS

Eight USB 2.0: two on front panel, five on back panel, one internal (UDOC) on motherboard; one front, one rear; Two 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  
Front and rear IEEE 1394a ports are provided with optional 1394 PCI-e card

## RACKMOUNTABLE CHASSIS

### DUAL ORIENTATION DESKTOP DIMENSIONS

Desktop orientation with feet: (WxHxD) 17.64" x 6.73" x 18.54" (maximum including badge); 44.8 cm x 17.1 cm x 47.1 cm (maximum including badge)

Mini-tower orientation with feet: (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 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.

Slots: All full length except as noted. One PCI-e x8 slot wired as x4 (half length); Two motherboard PCI-e x16 Gen 2 graphics slots;; Two PCI-X

64bit/100MHz slots with support for 3.3v or universal cards (one half length, one full length in mini-tower orientation, two half length in desktop orientation) , One PCI 32bit/33Mhz 5V slot. 875 watt 80%+ Efficiency Power Factor Correcting (PFC) power supply

## PERIPHERALS

### MONITORS

Compatible with performance flat panel displays, Dell UltraSharp™ widescreen and standard flat panel displays from 17" viewable to 30" viewable;  
Analog flat panel displays and CRT monitors also available

### KEYBOARD

Dell Enhanced QuietKey USB; Enhanced Multimedia USB; Smart Card keyboard USB

### MOUSE

Dell USB two-button mouse and 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

### OPTIONAL REMOVABLE STORAGE

CD-RW/DVD Combo, DVD-ROM, DVD+/-RW, Blu-Ray , USB Floppy Drive, USB media card reader

### OPTIONAL MODEM

Dell 56K v.92 Data/Fax PCI modem

## SECURITY

### SOFTWARE

Trusted Platform Module 1.2 (TPM 1.2); Chassis intrusion switch; Setup/BIOS Password; I/O Interface Security

### HARDWARE

Kensington Lock, Padlock, Internal front panel chassis lock

## ENVIRONMENTAL & REGULATORY

### STANDARDS

Green PC, Energy Star, BSMI, C-TICK, CE, FCC, IRAM, NEMKO, NFPA 99, SABBS, SASO, TUV, UL, VCCI, USB 2.0, WEEE

### LEAD FREE

Environmentally conscious design is RoHS Compliant/Lead Free

## SERVICE & SUPPORT

### BASE

3-Year Limited Warranty<sup>5</sup> with 3 years standard Next Business Day (NBD) onsite<sup>6</sup>parts replacement and 3 years NBD onsite<sup>7</sup>labor (US Only)

### RECOMMENDED

3-Year Same Business Day 4 hour On-site Service<sup>6</sup> – 5 days a week, M-F 10 hours a day (8-6PM)

3-Year Same Business Day 4 hour On-site Service<sup>6</sup> – 7 days a week, 24 hours a day

3 & 4-year Gold Technical Support, expert support via phone, e-mail and online chat – 7 days a week, 24 hours a day

1 The total amount of available memory will be less depending on actual system configuration with 32-Bit Windows operating system.

2 Based on the PCMark 05 hard drive benchmark tests performed by Dell Labs in October 2007 on the Dell Precision 390. Comparing the performance of a 73GB 15K SAS drive vs. the 160GB SATA 10K drive. Actual performance will vary based on configuration, usage and manufacturing variability.

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

4 For hard drives, 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.



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