

Dell Precision 470 Workstation



New Dual-Core Intel® Xeon® processors combine with other productivity-enhancing technologies in the Dell Precision™ 470 Workstation to deliver exceptional performance in space-constrained environments.

The Performance You Require

The Dell Precision 470 workstation incorporates many of the latest technology advancements designed to deliver maximum performance for demanding 32-bit and 64-bit applications in a dual socket chassis that can adapt to the most challenging work environments. Optimized for performance, an ISV-certified Dell Precision workstation can help improve user productivity and quality of work.

Deploy New Technology without Unnecessary Cost or Complexity

By focusing on developing relevant technology and delivering innovative solutions, Dell delivers Dual-Core Intel® Xeon® -enabled two socket workstations designed to provide greatly increased performance, up to 46%* in today's Dell Precision platforms, as compared to Dell systems with single-core Intel Xeon processors, without the increase in power typically associated with increasing processor speed or the complexity of qualifying an all new platform or having to recertify your current ISV applications.

Revolutionize Your Business without Compromise

Harness the power to fundamentally change the way you work. Dell can provide the shortest path to seamless 64-bit implementation and simplify end-to-end planning, deployment and support in complex environments. Dell delivers intelligently designed, industry-standard systems based on proven technologies. Now you can quickly and cost-efficiently transition demanding applications to powerful 64-bit technology while helping improve the performance of your core 32-bit applications. Couple this transition with new dual-core processors and realize a well-balanced performance architecture.

Take Advantage of Productivity Gains with 64-bit Enabled Technology

The Dell Precision 470 supports some of the latest technologies including:

- Powerful new dual-core and single-core Intel Xeon processors, with 2MB L2 cache per core
- Intel Extended Memory 64 Technology supporting up to 16GB¹ of DDR2 memory for demanding 64-bit applications
- Serial ATA technology that supports 10,000 RPM SATA hard disk drives and a chassis that holds up to 1.5 total terabytes³ of internal storage
- A multi-bus architecture (PCIe, PCI-X, PCI) that can provide both load balancing for the key performance subsystems and legacy support

Visual Realism with Workstation-Class PCI Express x16 Graphics

Dell Precision offers an intelligent selection of ISV certified workstation-class graphics cards that can satisfy a range of customer needs from unprecedented OpenGL 3D performance to dependable 2D performance with optional dual monitor capability.

A Chassis Designed Especially for Complex Work Environments

For stock brokers who work on a packed trading floor or video editors who require high-density workstation clusters for complex video compositing, the Dell Precision 470 comes in a small, rackable chassis that can suit even the most challenging of dual socket workstation needs. What's more, the 470 can be scaled to a richly configured, multi-core processor performance powerhouse ready to tackle your most demanding workstation applications.

Peace of Mind through ISV Application Certifications

Dell partners with leading Independent Software Vendors (ISVs) to certify system and application compatibility so that your applications will run powerfully and efficiently on Dell Precision workstations. Through rigorous testing, Dell helps ensure flawless compatibility and optimized performance in demanding workstation environments. And, 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 multi-threaded application development. In turn, Dell hardware can deliver continuous performance gains as applications become optimized. Plus, Dell provides specialized ISV-knowledgeable service and support to keep your system running smoothly with your applications.



Rich and Reliable Manageability Features

The Dell™ OpenManage™ suite of products delivers software and hardware management features designed to lower your TCO and keep your workforce productive and current by enabling mass system updates, providing system alerts and allowing for after hours software updates or imaging. In addition, you receive the benefits of Dell's award-winning service and support with three year Next Business Day On-Site service¹⁰. Providing uncompromised performance, exceptional scalability and flexibility and the latest processor technology, the Dell Precision 470 is well suited for your challenging workstation applications.

GET MORE PERFORMANCE AND VALUE. GET MORE OUT OF NOW.





Dell Precision 470 Workstation

FEATURES Dell Precision™ 470

SYSTEM

Processors	Up to two 64-bit Intel® Xeon® dual-core or single-core processors with 800MHz front side bus and 2MB L2 cache per core; All Intel® Xeon® processors support 64-bit computing with Intel Extended Memory 64 Technology
Operating systems	Dell recommends Microsoft® Windows® XP Professional for Business Genuine Windows XP Professional; Genuine Windows XP Professional x64 Edition; Red Hat® Enterprise Linux WS v.4 (IA32); Red Hat Enterprise Linux WS v.4 (Intel EM64T)
Chipset	Intel E7525 chipset
Memory	Up to 16GB ¹ dual-channel ² DDR2 400MHz ECC registered memory; Six DIMM slots
Flash BIOS	4MB flash memory for system BIOS; SMBIOS 2.3.1 support
Graphics	Support for ISV-certified PCI Express graphics cards up to 150 watts and with up to 512MB graphics memory including: nVIDIA® Quadro® FX 4500; nVIDIA Quadro FX 3450; Quadro FX 1400; ATI™ FireGL™ V3100; nVIDIA Quadro NVS 280; All graphics cards support dual monitor configurations
Hard drives	Serial ATA/150 7,200 RPM drives up to 500GB ³ and Serial ATA/150 10,000 RPM drives at 80GB ³ ; Ultra 320 SCSI 10,000RPM drives up to 300GB ³ and 15,000RPM drives up to 146GB ³ ; Chassis supports up to three internal drives (1.5 terabytes ³ storage maximum)
Hard drive controller	Integrated Serial ATA/150 with RAID 0, 1; Optional 6-port SATA controller with RAID 0, 1; Optional Ultra 320 SCSI controller with RAID 0, 1; Optional high-performance PERC U320 SCSI RAID controller for performance RAID 0, 1, 5, 10
Network controller	Integrated PCI-X 64-bit Intel 10/100/1000 Gigabit ⁴ Ethernet
Audio controller	Integrated AC'97 audio; Optional Sound Blaster® Audigy® 2(D) ⁵
Standard I/O ports	Eight USB 2.0: two on front panel, six on back panel; Two serial; One parallel; Two PS/2; One RJ-45; Line-in, line-out, and microphone connectors on back panel; Speaker and headphone connectors on front panel
Optional I/O	IEEE 1394a connector available with add-in card; PCMCIA card reader

CHASSIS

Multiple orientation desktop	Desktop orientation with feet: (WxHxD) 17.5" x 6.6" x 18.0"; 44.45 cm x 16.76 cm x 45.72 cm Mini-Tower orientation with feet: (WxHxD) 6.5" x 17.6" x 18.0"; 16.51 cm x 44.70 cm x 45.72 cm Two internal 3.5" x 1" disk drive bays; Two external 5.25" drive bays; One external 3.5" bay; One PCI Express x16 graphics slot; One PCIe x4 slot; One PCI slot (32-bit 5V); One PCI-X slot (62-bit/100MHz 3.3V); 550 watts Power Factor Correcting (PFC) power supply
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PERIPHERALS

Monitors	Performance Flat Panel Displays Dell UltraSharp™ widescreen and standard flat panel displays from 17" viewable to 24" viewable Value Flat Panel Displays and CRT Monitors also available
Keyboard	Dell Smart Card and Enhanced Multimedia keyboards; Dell Quietkey™ keyboard standard
Mouse	Dell optical mouse with scroll; Dell mechanical mouse with scroll standard
Optional Speakers	Internal chassis speaker; Dell two piece stereo system; Dell sound bar available for all flat panel displays

STORAGE DEVICES

Optional Removable Storage	Including DVD+RW ⁶ , CD-RW/DVD-ROM combo drive and Dell USB Memory Key up to 512MB ⁷
Optional Modem	Dell 56K ⁸ v.92 Data/Fax PCI modem

ENVIRONMENTAL & REGULATORY

Standards	TC099, Blue Angel, Green PC, Energy Star, BSMI, C-TICK, CE, FCC, IRAM, NEMKO, NFPA 99, SABBS, SASO, TCO, TUV, UL, VCCI, USB 2.0
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SERVICE & SUPPORT

Base	3-Year Limited Warranty ⁹ with 3 years standard Next Business Day (NBD) onsite ¹⁰ parts replacement and 3 years NBD onsite ¹⁰ labor (US Only)
Recommended	3-Year Same Business Day 4 hour On-site Service ¹⁰ – 5 days a week, M-F 10 hours a day (8-6PM)
	3-Year Same Business Day 4 hour On-site Service ¹⁰ – 7 days a week, 24 hours a day
	3 & 4-year Gold Technical Support under local hours of operation

NOTE: Some applications and peripherals are not compatible with a 64-bit operating system environment. Be sure to verify with all of your current application vendors that your full application suite is compatible before purchasing a Dell Precision workstation with a 64-bit operating system.

Dell PCs use genuine Microsoft Windows. www.microsoft.com/piracy/howtotell. Dell's Terms and Conditions of Sales and Service apply and are available upon request. Dell cannot be held responsible for errors in typography or photography. 1 The total amount of usable memory available will be less, depending on the actual system configuration. To utilize more than 4GB of memory requires a 64-bit operating system. 2 Dual-channel memory requires 2 each of the same capacity memory DIMMs. 3 For hard drives, one GB means 1 billion bytes and one TB equals one trillion bytes; actual capacity varies with preloaded material and operating environment and will be less. 4 This term does not connote an actual operating speed of 1 GB/sec. For high speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required. 5 Certain system components may differ from the retail version. 6 Discs burned with this drive may not be compatible with some existing drives and players; using DVD+R media provides maximum compatibility. 7 For writeable storage devices, MB means 1 million bytes; total accessible capacity varies depending on operating environment. 8 Download speeds are limited to 53Kbps. Upload speeds are less (about 30Kbps). Speeds can vary by line condition and modem manufacturer. Analog phone line and service required. 9 For a complete copy of our guarantees and limited warranties, please write Dell U.S.A. L.P., Attention: Warranties, One Dell Way, Round Rock, TX 78682. For more information, visit http://www.dell.com/us/en/gen/misc/policy_010_policy.htm. 10 Service may be provided by third-party. Technician will be dispatched if necessary following phone-based troubleshooting. Subject to parts availability, geographical restrictions and terms of service contract. Service timing dependent upon time of day call placed to Dell. U.S. only. Dell, the Dell logo, Dell Precision, OpenManage, and UltraSharp are trademarks of Dell Inc. Intel, Intel Inside, the Intel Inside logo, Intel PRO and Xeon are trademarks or registered trademarks of Intel Corporation. Microsoft, Windows and the Windows logo are registered trademarks or trademarks of Microsoft Corporation in the U.S. and other countries. Dell Inc. disclaims any proprietary interest in trademarks and trade names other than its own. © Copyright 2005 Dell Inc. All rights reserved. Ad# 59960228

* Up to 46% performance increase is based on assessments from SPEC CPU2000 benchmark testing performed by Dell Labs in August, 2005 on a Dell Precision 670 workstation with two dual-core 2.8 Intel Xeon processors, 2x 2MB L2 cache per core, 800MHz FSB, HT off, 2GB DDR2 ECC memory, 160GB SATA 7200RPM HDD and Microsoft Windows XP Pro SP2 as compared to a Dell Precision 670 workstation with two Intel Xeon 3.6GHz processors, 2x 2MB L2 cache per core, 800MHz FSB, HT off, 2GB DDR2 ECC memory, 160GB SATA 7200RPM HDD and Microsoft Windows XP Pro SP2. Results from a suite of SPEC CPU and Linpack tests ranged from 19% (SPEC CPU2000 FPRatePeak) to 46% (SPEC CPU2000 IntRatePeak). Actual performance will vary based on configuration, usage and manufacturing variability.

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