Dell recommends Windows®

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Dell Precision Tower 7810

Ultimate performance & scalability



Experience outstanding productivity

Power through resource-exhausting and graphics-intensive workloads with the advanced design of the dual processor Dell Precision Tower 7810 featuring:

- Single or dual Intel® Xeon® processor E5-2600 v3 have the frequency and cores to process multiple complex tasks quickly.
- With 2nd CPU installed, the Tower 7810 delivers 2X the memory bandwidth and CPU cores to quickly process compute intensive multi-threaded applications
- Dell Precision Optimizer 2.0 autotunes application settings for optimized performance
- Intel CAS-W storage option enables performance that is near solid state drive speeds at a significantly reduced cost versus a full SSD storage solution
- Choose from a broad selection of new professional grade AMD FirePro™ or NVIDIA® Quadro® graphics
- Easily handle large data sets with up to 256GB[4,6,10] of quad- channel 2133MHz DDR4 ECC RDIMM memory[6]
- Optional Micron® P420m[10] PCIe SSD drives deliver superb read throughput, exceptional reliability & power efficiency
- Optional 12Gb/s PCIe SATA/SAS controllers facilitate data striping and mirroring for increased performance & data availability

Reliability you can count on

You keep working, no matter what the challenges . Your workstation should too.

- Exclusive Reliable Memory Technology maximizes uptime by eliminating virtually all memory errors for more stability
- The result of hundreds of rigorous testing, Independent Software Vendor (ISV) certifications ensure your high performance applications run smoothly

Best-in-class chassis design

- Straightforward, clutter-free interior provides easy access to components for service & modifications with ease
- The only mainstream tower workstation family with externally accessible tool-less power supplies for superior serviceability
- The Tower 7810 is up to 34% quieter than its' predecessor
- Handles for easy deployment and moves
- Easy access to front-mounted USB port & rack mounting via 0U rail shelf kit

Exceptional Service & Support

- Rest assured that your Dell Precision workstation will be well protected should an issue arise, with a standard 3 year limited hardware warranty[7]

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Feature	Technical Specification
Processor Options	One or two; Intel® Xeon® processor E5-2600 v3 family with up to fourteen[12] cores per processor and Intel Advanced Vector Extensions, Intel Trusted Execution Technology, Intel AES New instructions, Optimized Intel Turbo Boost and optional Intel vPro™ technology
Operating System Options	• Windows® 8.1 Pro (64-Bit), • Genuine Windows® 7 Professional (64-Bit) • Red Hat® Enterprise Linux® 7.0 • Ubuntu 12.04 SP1 Linux
Memory Options	Quad channel; Up to 256GB[6,10] 2133 MHz DDR4 ECC RDIMM memory); 8 DIMM slots (4/processor) [6]
Chipset	Intel® C612Chipset
Graphics[6] Options	Support for two PCI Express® x16 Gen 2 or Gen 3 cards up to 300W total for graphics 825W PSU (restrictions[7]) **High end 3D cards:** NVIDIA® Quadro® K6000, NVIDIA® Quadro® K5200 **Mid-range 3D cards:** AMD FirePro™ W7100[12], AMD FirePro™ W5100, NVIDIA Quadro K4200, NVIDIA Quadro K2200 **Entry 3D cards:** AMD FirePro 4100, AMD FirePro 2100, NVIDIA Quadro K620, NVIDIA Quadro K420[12] **Professional 2D cards:** NVIDIA Quadro NVS 510 (not ISV certified), NVIDIA Quadro NVS™ 510, NVIDIA Quadro NVS 315, NVIDIA Quadro NVS 310
GPU GPGPU	• NVIDIA Tesla® K20C Computing Processor (GPGPU)
MCC Compute	• Intel 3120A Coprocessor (available via S & P in select regions)
Storage Options	Up to three 3.5" or four 2.5" internal SATA, SAS or SSD drives. Additional add-in controller required for SAS HDD SATA 7200RPM Up to 4.0TB; SAS 10K RPM up to 1.2TB; SAS 15k RPM Up to 600GB; SATA SSD Up to 512GB; SAS SSD 400GB; PCIe SSD Micron P420m[10] 700GB/1.4TB
Storage Controller	Integrated: • Intel AHCI 6Gb/s SATA controller with six ports at 6Gb/s, two reserved for optical drives, Intel® RSTe supports software RAID 0,1,5,10 Optional • MegaRAID® SAS 9341-8i 12Gb/s SATA/SAS PCIe controller supports software RAID 0,1,5,10 • MegaRAID® SAS 9361-8i 12Gb/s SATA/SAS PCIe controller (1 GB cache) supports hardware RAID 0,1,5,10
Add-in cards	• Thunderbolt 2 PCIe card w DisplayPort loop back cable • Serial port PCIe card, 1 port; 1394a/b PCIe card, 3 ports - 1x 1394a, 2x 1394b
Communications	Internal: Intel I217 Gigabit Ethernet controllers with Intel Remote Wake UP, PXE and Jumbo frames support Optional Intel I210 10/100/1000 Gigabit Ethernet controller (PCIe card), 1 X RJ45; Intel X540-T2 10GbE Ethernet Server Adapter (PCIe x8 card), 2 X RJ45
1:1 Remote Access Options	• Tera2 dual & quad display PCoIP™ PCIe Remote access host cards for Wyse P25/P45 zero client & soft clients • Teradici PCoIP® Workstation Access Software
Ports	Front : 3 USB 2.0, 1 USB 3.0, 1 Microphone, 1 Headphone, 2 RJ45 Internal: 3 USB 2.0, 4 SATA/SAS 6Gb/s, 2 SATA 6GB/s (for optical drive(s)), 1 Serial Rear: 3 USB 2.0, 3 USB 3.0, 2 PS2, 1 serial, 1 RJ45 (Intel Gigabit Ethernet)
Dimensions	Mid tower chassis dimensions (HxWxD): 16.95 x 8.50 x 20.67"; 438 x 216 x 545mm
Bays, chassis, ports	Bays: One external slimline optical bay, two internal 3.5" hard drive bays, one external 5.25" bay; externally accessible, tool-less power supply, 80 Plus gold certified, 90% efficient; 825W or 685W 5 full-length slots, 1 half length, two PCIe x16 Gen 3; 1 PCIe x16 Gen 3 wired x8 (half-length); 1 PCIe x4 Gen 2; 1 PCIe x1 gen2; one PCI 32 bit/33MHz
Monitors	Dell UltraSharp Monitors – Award-winning high-performance monitors with PremierColor (on select models) and ultra-wide viewing, from 21.5"- 31.5". Dell Monitors (P models) available from 19" – 28".
Optical Drive	Slim-line tray load options: DVD-ROM; DVD+/-RW Optional 5.25" device: DVD+/-RW; 19-in-1 media reader
Security Options	Trusted Platform Module (TPM 1.2); Intrusion switch; Setup/BIOS Password; I/O Interface Security; Kensington® lock slot, Padlock ring, Internal bezel lock; lockable power supply; Dell Data Protection (DDP): DDP | Security Tools for authentication; DDP | Protected Workspace for malware; DDP | Encryption for data protection
Regulatory & Environmental	Energy Star® configurations available including 80 PLUS® registered Gold power supplies; EPEAT® registered (see epeat.net for specific registration rating/status by country); China CECP; GS Mark. For a complete listing of declarations & certifications, see Dell's regulatory & compliance homepage at dell.com/regulatory_compliance
Warranty & Support Services	Limited Hardware Warranty[10]; Standard 3-year On Site Service after Remote Diagnosis[7]. Optional 3 year Dell ProSupport premium support from expert technicians & 24x7 global availability[7]. 4 & 5 year support options[3]
Configuration Svcs. [3]	Factory Image load. BIOS Customization. Hardware Customization, Asset Tagging and Reporting

OEM ready models available: Learn more about custom-branded solutions at Dell.com/OEM. 1. ISV certification applies to select configurations. 2. A 64-bit operating system is required to support 4GB or more of system memory. 3. See epeat.net for specific registration rating/status by country. 4. GB means 1 billion bytes and TB equals 1 trillion bytes; significant system memory may be used to support graphics, depending on system memory size and other factors. 5. GB means 1 billion bytes and TB equals 1 trillion bytes; actual capacity varies with preloaded material and operating environment and will be less. 6. Requires second processor option 7. 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 8. Remote Diagnosis is determination by online/phone technician of cause of issue; may involve customer access to inside of system and multiple or extended sessions. If issue is covered by Limited Hardware Warranty and not resolved remotely, technician and/or part will be dispatched, usually within 1 business day following completion of Remote Diagnosis. Availability varies. Other conditions apply. 9. Availability and terms of Dell Services vary by region. For more information, visit www.dell.com/servicedescriptions. 10. Future availbility Dell PCs use Genuine Microsoft Windows. Intel, the Intel logo, Xeon and Xeon Inside are trademarks or registered trademarks of Intel Corporation in the U.S. and other countries. Microsoft, Windows and Windows Vista are trademarks or registered trademarks of Microsoft Corporation in the U.S. and other countries. Dell is a trademark of Dell Inc. ©2013 Dell Inc. All rights reserved.

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