Experience the evolution of productivity
Power resource-exhausting, graphics-intensive workloads with ease, featuring:

• Dell Precision Optimizer v 2.0, enhances application performance by optimizing settings, for up to 121 percent application performance improvement

• Future Intel® Xeon® processor E5-1600 v3 product family, including select high-end E5-2600 v3 CPUs, provides the performance and flexibility you need to complete complex tasks quickly

• Manage large data sets with ease, with up to 256GB of quad-channel 2133MHz DDR4 ECC RDIMM memory

• Choose from a broad selection of new professional grade AMD FirePro™ or NVIDIA® Quadro® graphics

• Optional Micron® P420m PCIe SSD drives deliver superb read throughput, combined with exceptional reliability and remarkable power efficiency

• 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

Reduce environmental impact
• Dell Precision Tower 5810 is EPEAT®-registered and offers ENERGY STAR® configurations, including 80 PLUS®-registered Gold power supplies

Best-in-class chassis design
• Straightforward, clutter-free interior provides superb air flow, easy access to components for serviceability and modifications, and improved acoustics

• The only mainstream tower workstation family to offer an externally accessible tool-less (lockable) power supply for superior serviceability

• Integrated front and rear aluminum handles for easy deployment and moves

• Room for up to (3) 3.5” or (4) 2.5” tool-less hard drives

• Easy 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

The Precision Experience
Dell makes it easy to choose, buy and own all of the essential accessories you need to enhance your workstation productivity.

• Enjoy outstanding color accuracy, consistency and richness with state-of-the-art Dell UltraSharp monitors with Premier Color (optional color calibrator)
Dell Precision Tower 5810 workstation

Technical Specification

**Feature**

**Processor Options**

Intel® Xeon® processor E5-1600 v3 Series plus select Intel Xeon E5-2600 v3 with up to 14 cores 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), Windows® 8.1 Pro (32-Bit)
- Genuine Windows® 7 Professional (64-Bit)
- Red Hat® Enterprise Linux® 7.0
- Ubuntu 12.04 64-bit Linux

**Memory Options**

Quad channel: Up to 256GB 2133MHz DDR4 ECC RDIMM memory; 8 DIMM slots

**Chipset**

Intel® C612 chipset

**Graphics† Options**

Support for 2 PCI Express® x16 Gen 2/Gen 3 graphics cards up to 300W (total graphics in 2 slots, 685W PSU)

**High end 3D cards:**

- NVIDIA® Quadro® K6000
- NVIDIA® Quadro® K5200

**Mid-range 3D cards:**

- AMD FirePro™ W9160
- AMD FirePro™ W9100

**Entry 3D cards:**

- NVIDIA® Quadro® K4200
- NVIDIA® Quadro® K2200
- NVIDIA® Quadro® K2100

**Storage Options**

- Up to (3) 3.5” SATA or (4) 2.5” internal SATA, SAS or SSD drives. Additional add-in controller needed for SAS drives

**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 SAS (6Gb/s SATA) PCIe controller supports software RAID 0,1,5,10
- Optional: MegaRAID® SAS 9361-8i 12Gb/s SAS (6Gb/s SATA) PCIe controller (1 GB cache) supports hardware RAID 0,1,5,10

**Add-in cards**

- Thunderbolt 2 PCIe card DisplayPort loop back cable
- Serial port PCIe card, 1 port; 1394a/b PCIe card, 3 ports - 1x 1394a, 2x 1394b

**Communications**

 Integrated Intel I217 Gigabit Ethernet controller with Intel Remote Wake UP, PXE and Jumbo frames support

- Optional: Intel I210 10/100/1000 Gigabit Ethernet controller (PCIe x1 card) - 1x RJ45, Intel Ethernet Server adapter X540-T2 10GbE (PCIe x8 card) - 2x RJ45 (Intel Gigabit Ethernet)

**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

**Audio Controller & Speakers**

- Integrated: Realtek ALC3220 High Definition Audio
- Optional: Creative Sound Blaster Recon3D PCIe x1 card
- Dell 2.0 and 2.1 stereo systems available; Dell sound bar for select flat-panel displays

**I/O Ports**

 Front: - 3 USB 2.0, 1 USB 3.0, 1 Microphone, 1 Headphone, Internal: 3 USB 2.0, 4 SATA 6Gb/s, 2 SATA 6Gb/s (for optical drive(s)), Rear: 3 USB 2.0, 3 USB 3.0, 1 Serial, 2 PS2, 1 RJ45 (Intel Gigabit Ethernet)

**Dimensions (HxWxD)**

- Mid-Tower Chassis: 16.30 x 6.79 x 18.54” (414 x 172.6 x 471mm)
- Bays, ports
  - Bays: One external slimline optical bay, two internal 3.5" Ports: 5 slots (5 full length, 1 half length). Two PCIe x16 hard drive bays; one external 5.25" bay, power supply (externally accessible, tool-less, 80 Plus® Gold Certified, 90% efficient) 685W or 425W
  - Slimline options: DVD-ROM; DVD+/-RW, Optional 5.25" device: DVD+/-RW: 19-in-1 media reader

**Power Supply Options**

- 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”

**Security Options**

- Trusted Platform Module (TPM 1.2); Intrusion switch; Setup/BIOS Password; I/O Interface Security; Kensington® lock slot; Padlock ring, 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 epet.net for specific registration rating/status by country); China CECC; GS Mark. For a complete listing of declarations & certifications, see Dell’s regulatory & compliance homepage at dell.com/regulatory_compliance
- 3-Year Limited Hardware Warranty† and 3-year NBD On-Site Service after Remote Diagnosis8 Optional: Dell ProSupport® 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

**Configurations**

Factory Image load. BIOS Customization. Hardware Customization, Asset Tagging and Reporting

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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 epet.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. Available in select regions; 7. For copy of Limited 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/services descriptions. 10. Future availability. 11. Available in select countries. Dell PCs use Genuine Microsoft Windows. Intel, the Intel logo. Xeon & Xeon Inside are trademarks or registered trademarks of Intel Corporation in the U.S. & other countries. Microsoft, Windows & Windows Vista are trademarks or registered trademarks of Microsoft Corporation in the U.S. & other countries. 11. Sold separately in select regions

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