Dell Precision Tower 5810
Big power in a compact, innovative design

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

- 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[4,10] 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® P420m10 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[3] 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[7]

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

Feature	Technical Specification
Processor Options	Intel® Xeon® processor E5-1600 v3 Series plus select Intel Xeon E5-2600 v3 with up to 14 ~~cores Single or dual~~ 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 256GB10 2133MHz DDR4 ECC RDIMM memory; 8 DIMM slots
Chipset	Intel® C612 chipset

Graphics[6] 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:	Mid-range 3D cards:	Entry 3D cards:	Professional 2D cards:
NVIDIA® Quadro® K6000 NVIDIA® Quadro® K5200	AMD FirePro™ W7100[12] AMD FirePro™ W5100 NVIDIA Quadro K4200 NVIDIA Quadro K2200	AMD FirPro 4100 AMD FirePro 2100 NVIDIA Quadro K620 NVIDIA Quadro K420[12]	Professional 2D (not ISV certified) NVIDIA Quadro NVS 510 NVIDIA Quadro NVS 315 NVIDIA Quadro NVS 310

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

SATA 7200RPM	SAS 10K RPM	SAS 15k RPM	SATA SSD	SAS SSD	PCIe SSD
Up to 4.0TB	up to 1.2TB	Up to 600GB	Up to 512GB	400 GB	Micron P420 700GB/1.4TB

Feature	Technical Specification
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 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) - 1 X RJ45, Intel Ethernet Server adapter X540-T2 10GbE (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
Audio Controller	•Integrated: Realtek ALC3220 High Definition Audio •Optional: Creative Sound Blaster Recon3D PCIe x1 card
Speakers	•Dell 2.0 and 2.1 stereo speaker 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" hard drive bays; one external 5.25" bay, power supply (externally accessible, tool-less, 80 Plus® Gold Certified, 90% efficient) 685W or 425W Ports: 5 slots (5 full length, 1 half length). Two PCIe x16 Gen 3, one PCIe x 16 Gen 3 wired x8 (half length); one PCIe x4 Gen 2; one PCIe x1 Gen 2, one 32bit/33MHz
Storage devices	Slimline options: DVD-ROM; DVD+/-RW, Optional 5.25" device: DVD+/-RW; 19-in-1 media reader
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".
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 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	3-Year Limited Hardware Warranty7 and 3-year NBD On-Site Service after Remote Diagnosis8 Optional: Dell ProSupport9 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
Configuration Svcs. [3]	Factory Image load. BIOS Customization. Hardware Customization, Asset Tagging and Reporting

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