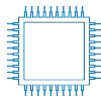




PRECISION 5820 TOWER

Big power in an innovative compact design.



POWERFUL PERFORMANCE

The Dell Precision 5820 Tower delivers high performance for your most demanding applications with the latest Intel® Xeon® and Core® X Series processors and up to 512GB of fast 2666MHz memory. In addition, every Dell Precision comes with the exclusive Dell Precision Optimizer, which automatically tunes your workstation to run some of the most popular (ISV) applications at the fastest speeds possible. DPO Premium is a new AI-based version which optimizes your workstation, based upon how you use it, providing true customization.



INNOVATIVE DESIGN

The front FlexBay design supports a range of modules from scalable storage to security options, you can build the workstation designed for your creative expertise. Secure your data with the optional Smart Card (CAC/PIV) reader, hot swap NVMe SSDs and lockable hard drive carriers. The best-in-class smart design includes integrated front and rear handles for easy deployment and moves, and an externally accessible tool-less (lockable) power supply for superior serviceability.



LATEST TECHNOLOGY

Ready for complex projects, including artificial intelligence and virtual reality workflows, with next generation Radeon™ Pro and NVIDIA Quadro® professional graphics, with support for up to 600W of graphics power. Front access FlexBays provide outstanding storage expandability, up to 60TB with SATA, SAS and PCIe M.2/U.2 NVMe solid state drives, featuring hot-swap access, so you never have to stop creating.



OUTSTANDING RELIABILITY

The revolutionary multichannel thermal design delivers advanced cooling and acoustics so you can enjoy longer productivity under heavy workloads. Precision workstations are tested and are Independent Software Vendor certified to ensure the high-performance applications you rely on every day run smoothly.

Essential Accessories

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Dell Canvas

Bring your ideas to life with a 27-inch workspace that empowers natural digital creation. Featuring a precise EMR pen, totem, and touch surface.



Dell Wireless Premium Keyboard & Mouse Combo | KM717

Enhance productivity and enjoy its elegant design that will fit into virtually any workspace. For increased productivity you can simultaneously pair up to two compatible devices with Bluetooth LE.



Dell 27 UltraSharp Monitor with PremierColor | UP2716D

Expect vivid, accurate color precision, ultra-thin bezels and ideal color coverage to suit your professional needs with the Dell UltraSharp 27 Monitor.



Jabra Evolve 75

With the ambient noise cancellation feature of this wireless headset you can hear every word clearly on your next call. This easy to carry device is certified for Microsoft Skype for Business.



3Dconnexion SpaceMouse Wireless

SpaceMouse Pro Wireless handles 3D navigation for a revolutionary two-handed work style preferred by the world's top 3D professionals. Intuitively examine and analyze your designs from every angle.



X-Rite Colorimeter i1Display Pro

The i1Display Pro ensures a perfectly calibrated and profiled display while delivering the speed, options and flexibility needed to maintain color accuracy.

Dell Technologies Unified Workspace

Dell Technologies Unified Workspace is the most comprehensive solution to deploy, secure, manage and support virtually all devices from the cloud. We designed this revolutionary solution with intelligence and automation providing you with visibility across the entire endpoint environment. We help you save time, improve user experience, optimize resources and strengthen security.



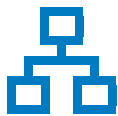
DEPLOY

Our modern deployment solution, ProDeploy in the Unified Workspace allows you to revolutionize the way deployment gets done. By spending just one hour for set up, IT can then hand deployment to Dell and have preconfigured systems shipped directly to the end users--wherever they are.



SECURE

Dell Endpoint Security for the Unified Workspace helps you manage growing cyber risks while embracing workforce transformation. With Dell SafeGuard and Response powered by Secureworks, you gain actionable insight to help you quickly and efficiently prevent, detect and respond to cyber-attacks - keeping your environment free from harm.



MANAGE

We integrated our hardware management solution Dell Client Command Suite with VMware Workspace ONE, allowing you to take advantage of unified endpoint management (UEM) and manage the firmware, operating system and applications for all devices from the Workspace ONE console. UEM simplifies the management of the entire environment saving IT time from having to work between separate consoles for PCs and phones.



SUPPORT

ProSupport Plus continues to be the only predictive and proactive support in the market. When compared to key competitors, ProSupport Plus with SupportAssist reduced time to resolve a failed hard drive with up to 11x faster time to resolution*

Features & Technical Specifications

PRECISION 5820 TOWER

Feature Precision 5820 Tower Technical Specifications

Processor Options	Intel® Xeon® Processor W-2000 Family and Core X Series CPUs with up to 18 cores and Intel Advanced Vector Extensions, Intel Trusted Execution Technology, Intel AES New instructions, Optimized Intel Turbo Boost and optional Intel vPro™ technology (Xeon W CPUs only) (Important Note: Features and Supported Configurations will differ between 5820 Tower Workstations with Intel® Xeon® W Processors and 5820 Tower Workstations with Intel® Core™ X Processors. Please see systems on Dell.com/Precision for specific configuration details.)
Operating System Options	Windows 10 Pro for Workstations (up to 4 Cores) Windows 10 Pro for Workstations (4 Cores Plus) Windows 10 Pro - for Core X Series CPUs Red Hat Enterprise Linux 8.0 Ubuntu Linux 18.04 Suse Linux (SLES 12 SP2) supported* NeoKylin 6.0 SP5 (China only)*
Chipset	Intel® C422 (Skylake/Cascade Lake W); Intel X299 (Skylake/Cascade Lake X)
Memory Options ¹	Four channel memory up to 512GB 2666 MHz and up to 256GB 2933 MHz DDR4 (RDIMM) ECC memory. (Up to 256GB 2666 MHz DDR4 (UDIMM) Non-ECC memory) 8 DIMM slots. Note: Memory speed is dependent on specific Intel Xeon or Core X Processor installed.
Graphics Options ¹	Support for 2 PCI Express® x16 Gen 3 graphics card - up to 600W with maximum of up to 2 x 300W double width graphics cards. Not all graphics card offerings are available with Core X I9 and I7 Series CPUs High end 3D cards: Radeon™ Pro WX 9100 Radeon™ Pro SSG NVIDIA Quadro GV100 NVIDIA Quadro P6000 NVIDIA Quadro P5000 Nvidia Quadro RTX 8000 Nvidia Quadro RTX 6000 Nvidia RTX 5000 Mid-range 3D cards: Radeon™ Pro WX 7100 Radeon™ Pro WX 5100 Radeon™ Pro WX 4100 NVIDIA Quadro P4000 NVIDIA Quadro P2000 NVIDIA Quadro P2200 NVIDIA Quadro RTX 4000 Entry 3D cards: Radeon™ Pro WX 3200 Radeon™ Pro WX 2100 NVIDIA Quadro P1000 NVIDIA Quadro P620 NVIDIA Quadro P400 Professional 2D cards: NVIDIA NVS 310

Feature Precision 5820 Tower Technical Specifications

Storage Options ²	PCIe backplane chassis with integrated Intel controller and up to 4 with MegaRAID 9460* NVMe hardware RAID controller option - see controller section Note: Precision PCIe FlexBay backplane and single M.2 Module (incl. 1 M.2 PCIe/NVMe carrier) kits are available for customers to convert standard FlexBays* to support Intel and MegaRAID NVMe controller options. (different kits) Only 1 front accessible M.2 NVMe PCIe SSD is supported, due to reduced PCIe lane support on Core X I9 and I7 Series CPUs NVMe RAID 0, 1 option (Intel RSTe vROC).* Up to 4 x M.2 NVMe PCIe SSDs via 1 x Dell Ultra-Speed Drive Quad x16 card. NVMe RAID 0, 1, 10 option (Intel RSTe vROC). M.2 NVMe PCIe SSDs Up to 4 x 2TB drives on 1 Dell Precision Ultra-Speed Drive Quad x16 card. Front FlexBay M.2/U.2 NVMe PCIe SSDs Up to 4 x 2TB M.2 drives Intel® Optane™ 905P SSDs Up to 4 x 960GB drives 2.5" SATA SSD Up to 6 x 1.9TB drives 2.5" SATA 7200 RPM Up to 6 x 1TB drives 3.5" SATA 7200 RPM Hard Drives Up to 5 x 12TB Enterprise Drives 2.5" SAS SSD Up to 6 x 800GB drives 3.5" SAS 7200 RPM 12Gb/s Up to 5 x 4TB 2.5" SAS 10K RPM 12Gb/s Up to 6 x 1.8TB 2.5" SAS 15K RPM 12Gb/s Up to 6 x 600GB M.2 PCIe SED SSD 512GB and 1TB Not all storage offerings (including SAS drives) are available with Core X Series CPUs
Storage Controller	Integrated: Intel® chipset SATA controller (6Gb/s) with 6 SATA ports plus 2 dedicated ports for optical drives. Intel RSTe software RAID 0, 1, 5, 10* Intel RSTe (vROC) software RAID 0, 1, 10 option (motherboard activation key) for M.2 NVMe PCIe SSDs on Dell Ultra-Speed Drive Quad card, Duo x8 card (RAID 0, 1) and for 2 x front FlexBay M.2/U.2 NVMe PCIe SSDs* (RAID 0, 1) or front FlexBay NVMe PCIe SSDs (RAID 0, 1) Customer kit available for Intel RSTe (vROC) motherboard activation key for NVMe RAID support. Optional: Broadcom MegaRAID® SAS 9440-8i 12Gb/s SAS (6Gb/s SATA) PCIe controller, 8 ports, Software RAID 0, 1, 5, 10.* MegaRAID® SAS 9460-16i 12Gb/s SAS (6Gb/s SATA) PCIe controller (4GB cache with Flash module/Super Cap backup) Hardware RAID 0, 1, 5, 10.* MegaRAID 9460 controller NVMe option supports

1 x 2.5" / 3.5"
5 x 3.5"
U.2 NVMe
enabled

up to 4 front FlexBay M.2 / U.2 NVMe PCIe SSDs
with Hardware RAID0,1,5,10

Storage

Front accessible FlexBays support up to

Options² SATAHDD/SSDs and up to 6 x 2.5" and

drives with 5.25" bay populated.

Upto2frontaccessible(hotplug)M.2/

PCIe SSDs are supported in FlexBay 1 or

Features & Technical Specifications

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Feature	Precision 5820 Tower Technical Specifications	Feature	Precision 5820 Tower Technical Specifications
Communications	Integrated: Intel® i219 Gigabit Ethernet controllers with Intel Remote Wake UP, PXE and Jumbo frames support Optional: Intel® i210 10/100/1000 single port PCIe (Gen 3 x1) gigabit network card, Intel® X550-T2 10GbE dual port PCIe (Gen 3 x4) network card	Security Options (Check regional availability)	Trusted Platform Module (TPM 2.0); Optional CAC/PIV card reader for slimline bay, chassis Intrusion switch; Setup/BIOS Password; I/O Interface Security; Kensington® lock slot, Padlock ring, lockable power supply; Optional hard drive locking sleds (key lock), Dell Data Guardian, Dell Endpoint Security Suite Enterprise, Lockable front bezel (covers FlexBays), Front FlexBay NVMe drives are removable (hot swap).
Audio Controller	Integrated Realtek ALC3234 High Definition Audio Codec (2 Channel)	Manageability ³	AMT or vPro with DASH support* Dell vPro Enhancements (Grasslake)* SNMT/CIM vis OMCI Dell Command Suite
Speakers	Internal Speaker; Optional Dell 2.0 stereo speaker systems available and Dell sound bar for select flat-panel displays	Regulatory and 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
Add-in cards	Optional: Dell Precision Ultra-Speed Drive Duo (HH/HL, x8) & Ultra-Speed drive Quad (FH/FL, x16) with active cooling. Support for up to 2 and 4 M.2 PCIe NVMe SSDs respectively. Optional USB 3.1 (Gen 2) 10Gb/s Type C card (2 ports) 1 DP pass-through port Optional dual & quad display Teradici PCoIP remote workstation host PCIe cards Optional Thunderbolt 3 PCIe Card (2 ports) 1 DP pass-through port Optional Serial Port PCIe Card	Warranty & Support Services ⁴	3-Year Limited Hardware Warranty and 3-year NBD On-Site Service after Remote Diagnosis 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
I/O Ports	Front 2 - USB 3.1 Gen 1 Type A 2 - USB 3.1 Gen 1 Type C 1 - Universal Headphone Jack Internal 1 - USB 2.0 Type A 1 - 2 x 5 USB 2.0 header. (requires 3rd party splitter cable to support 2 x USB 2.0 Type A ports) 6 - SATA @6Gb/s plus 2 for optical Rear 6 - USB 3.1 Gen 1 Type A (6 th port supports Power Delivery) 1 - Serial 1 - RJ45 Network 2 - PS2 1 - Audio Line out 1 - Audio Line in/Microphone		
Chassis	HxWxD: 16.45" (417.9 mm) Width: 6.95" (176.5 mm) Depth: 20.4" (518.2 mm) Starting at weight 34lb/15.4kg Bays: (2) FlexBays can support up to 2x 3.25" or 2.5" drives each and (1) 5.25" HDD/SSD drives as factory option or customer kit. (1) Slimline optical bay; (1) SD slot UHS II Class 3 with read only support (SW enabled) Available PCIe backplane FlexBay chassis supporting 1 - 4 x M.2/U.2 PCIe NVMe SSDs. Slots: All slots PCIe Gen 3: (2) PCIe x16, (1) PCIe x16 wired as x8, (1) PCIe x16 wired as x4, (1) PCIe x16 wired as x1, 1 PCI 32/33 Power Supply: 425W* or 950W (input voltage 100VAC - 240VAC) -90% efficient (80PLUS Gold Certified) Externally accessible/removable/lockable		
Storage devices	Slimline Bay Options: DVD-ROM; DVD+/-RW, CAC/PIV card reader. 5.25" Bay Options: BD, DVD+/-RW; Standard: SD slot UHS II Class 3 with read only support		