POWERFUL PERFORMANCE
The Dell Precision 5820 XL Tower delivers high performance for your most demanding applications with the latest Intel® Xeon® and Core® X Series processors and up to 256GB 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.

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.

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.

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.

WHEN STABILITY MATTERS
When you choose an OEM XL product, you get the stability, visibility and longevity you need from the #1 Worldwide OEM provider. You can focus your time more on innovation for competitive differentiation and less on hardware development churn. Leverage our highly controlled parallel supply chain to help ensure stability. Plan and allocate your budget more effectively with long-term visibility to product roadmaps and in advance notification of hardware changes. And take that additional time you require to validate and certify your solution with an 18-month transition period after the launch of the next generation products. The Dell EMC OEM products were designed 100% with OEMs in mind.
Essential Accessories

**PRECISION 5820 XL TOWER**

**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.

**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.

**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.

**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.
Built for business

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.

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.

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.

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.

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 XL TOWER

<table>
<thead>
<tr>
<th>Feature</th>
<th>Technical Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Processor</strong></td>
<td>Intel® Xeon® Processor W Family CPUs with up to 18 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.</td>
</tr>
<tr>
<td><strong>Operating System</strong></td>
<td>Windows 10 Pro for Workstations (up to 4 Cores) Windows 10 Pro - for Core X Series CPUs Red Hat® Enterprise Linux® 8 (Sept. 2019) 2nd Generation Xeon SP (Cascade Lake) CPUs Ubuntu Linux 16.04, 18.04 Suse Linux (SLES 12 SP2) supported NeoKylin 6.0 SP5 (China only) Windows 7 Pro for Embedded Systems 64 bit (Skylake), Win10 IoT Enterprise 2016 LTSB, and Win 10 IoT Enterprise 2019 LTSC</td>
</tr>
<tr>
<td><strong>Chipset</strong></td>
<td>Intel® C422 (Skylake W)</td>
</tr>
<tr>
<td><strong>Memory</strong></td>
<td>Four channel memory up to 256GB 2666MHz DDR4 (RDIMM) ECC memory. (Up to 128GB 2666MHz DDR4 (UDIMM) Non-ECC memory) 8 DIMM slots.</td>
</tr>
<tr>
<td><strong>Graphics</strong></td>
<td>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 (when available). High end 3D cards: Radeon™ Pro WX 9100 Radeon™ Pro SSG NVIDIA Quadro GV100 NVIDIA Quadro P6000 NVIDIA Quadro P6000 NVIDIA Quadro RTX 8000 (future) 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 RTX 4000 Entry 3D cards: Radeon™ Pro WX 3100 Radeon™ Pro WX 2100 NVIDIA Quadro P1000 NVIDIA Quadro P620 NVIDIA Quadro P4000 Professional 2D cards: NVIDIA NVS 310 Storage Options</td>
</tr>
</tbody>
</table>
# Features & Technical Specifications

## Precision 5820 XL Tower

### Technical Specifications

#### Communications
- **Integrated:** Intel® i219 Gigabit Ethernet controllers with Intel Remote Wake UP, PXE and Jumbo frames support
- **Optional:** Intel® 210 10/100/1000 single port PCIe (Gen 3 x1) gigabit network card, Intel® X550-T2 10GbE dual port PCIe (Gen 3 x4) network card

#### Audio Controller
- Integrated Realtek ALC3234 High Definition Audio Codec (2 Channel)

#### Speakers
- Internal Speaker; Optional Dell 2.0 stereo speaker systems available and Dell sound bar for select flat-panel displays

#### Add-in cards
- **Optional:** Dell Precision Ultra-Speed Drive Duo (HH/HL,x8) & Ultra-Speed drive Quad (FH/FLx16) 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

#### 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
  - (6th 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 ll 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 ll Class 3 with read only support

#### Security Options
- **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).

#### Manageability
- **AMT or vPro with DASH support**
- Dell vPro Enhancements (Grasslake) SNM/T/CIM vis OMCI Dell Command Suite

#### 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

#### Warranty & Support Services
- **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
ISV certification applies to select configurations:

1. System memory may be used to support graphics, depending on system memory size and other factors.

2. Hard Drive capacity varies with preloaded material and will be less.

3. Systems Management Options: Intel® vPro Technology - Fully vPro-capable at point of purchase; the vPro systems management option requires vPro processors. Includes support for Intel Advanced Management Technology (AMT) 9.x. Intel® Standard Manageability - Fully enabled at point of purchase, the Intel Standard Management option is a subset of the AMT features. ISM is not upgradable to vPro technology post-purchase. No Out-of-Band Systems Management - This option entirely removes Intel out of band systems (OOB) management features. The system can still support in band management. OOB management support through AMT cannot be upgraded post-purchase.

4. Availability and terms of Dell Services vary by region. For more information, visit Dell.com/servicecontracts/global; Limited Hardware Warranty available by writing Dell USA LP, Attn: Warranties, One Dell Way, Round Rock, TX 78682 or see www.dell.com/warranty; Onsite Service after Remote Diagnosis: 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 (www.dell.com/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.

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