Experience the evolution of productivity

Power through compute and graphics-intensive workloads with the advanced dual processor Dell Precision Tower 7810:

- Single or dual Intel® Xeon® Processor E5-2600 v4 Series 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
- Easily handle large data sets with up to 256GB\(^1\) of quad-channel 2400MHz DDR4 ECC RDIMM memory
- Dell Precision Optimizer, enhances application performance by optimizing settings, for up to 121 percent application performance improvement
- 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\(^5\)
- Choose from a broad selection of new professional grade AMD FirePro\textsuperscript{™} or NVIDIA\textsuperscript{®} Quadro\textsuperscript{®} graphics
- Optional Intel PCIe SSD drives and M.2 PCIe NVMe SSDs on the actively cooled Dell Precision Ultra-Speed Drive Duo and Ultra-Speed Drive Quad deliver superb read/write throughput, combined with exceptional reliability.
- Optional 12Gb/s PCIe SATA/SAS RAID controllers facilitate data striping and mirroring for increased performance & reliability

Reliability you can count on

- Exclusive Reliable Memory Technology (RMT) PRO 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 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
- 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\(^4\)

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\(^5,6,7\)
### Feature

<table>
<thead>
<tr>
<th>Precision Tower 7000 Series (7810) Technical Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Processor Options</strong></td>
</tr>
<tr>
<td>One or two Intel® Xeon® processors E5-2600 v4 Series with up to 22 cores 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 Options</strong></td>
</tr>
<tr>
<td>Windows® 10 Professional (64-bit)</td>
</tr>
<tr>
<td>Windows® 8.1 Professional (64-bit)</td>
</tr>
<tr>
<td>Windows® 7 Professional (64-bit)</td>
</tr>
<tr>
<td>Red Hat® Enterprise Linux® 7.0 and 7.2 (required for Xeon E5-2600 v4 CPUs), RHEL 6.5 supported – RHEL 6.8 for E5-2600 v4 Ubuntu 14.04, Neolixyn 6.0 (China only)</td>
</tr>
<tr>
<td><strong>Chipset</strong></td>
</tr>
<tr>
<td>Intel® C622</td>
</tr>
<tr>
<td><strong>Memory Options</strong></td>
</tr>
<tr>
<td>Quad channel memory up to 256GB 2400MHz DDR4 RDIMM ECC memory with dual CPUs, 8 DIMM Slots (4 DIMMs per CPU). Note: memory speed is dependent on specific Intel Xeon E5-2600 v4 Series processor installed</td>
</tr>
<tr>
<td><strong>Graphics Options</strong></td>
</tr>
<tr>
<td>Support for 2 PCI Express® x16 Gen 2/Gen 3 graphics cards up to 5000W (total graphics in 2 slots, (with 825W PSU)</td>
</tr>
<tr>
<td><strong>Storage Options</strong></td>
</tr>
<tr>
<td>Support for up to (4) M.2 PCIe SSDs and up to (3) 3.5” SATA or (4) 2.5” SATA/SSAS drives. Optional controller required for SAS.</td>
</tr>
<tr>
<td><strong>Storage Controller</strong></td>
</tr>
<tr>
<td>Integrated: Intel® AHCI 6Gb/s SATA controller with six ports, two reserved for optical drives, Intel® RSTe supports host based software RAID 0,1,5,10</td>
</tr>
<tr>
<td>Optional: LSI MegaRAID® SAS 9341-8i 12Gb/s SATA (6Gb/s SATA) PCIe controller supports software RAID 0,1,5,10. LSI MegaRAID® SAS 9361-8i 2Gb/s SAS 6Gb/s SATA</td>
</tr>
<tr>
<td><strong>Audio Controller</strong></td>
</tr>
<tr>
<td>Integrated Realtek ALC3861 High Definition Audio Codec (2 Channel)</td>
</tr>
<tr>
<td><strong>Speakers</strong></td>
</tr>
<tr>
<td>Internal Speaker; Optional Dell 2.0 stereo speaker systems available and Dell sound bar for select flat-panel displays</td>
</tr>
<tr>
<td><strong>Add-in cards</strong></td>
</tr>
<tr>
<td>Optional: Dell Precision Ultra-Speed Drive Duo (HH/LX/a/b) &amp; Ultra-Speed drive Quad (HH/LX/a/b) with active cooling. Support for up to 2 and 4 M.2 PCIe NVMe SSDs respectively. Optional 1394 a/b PCIe Card (3 Ports – 2 x 1394a + 1 x 1394a)</td>
</tr>
<tr>
<td>Optional dual &amp; quad display Teradici PCoIP remote workstation host PCIe cards</td>
</tr>
<tr>
<td>Optional Thunderbolt 2 PCIe Card Optional Serial Port PCIe Card</td>
</tr>
<tr>
<td><strong>I/O Ports</strong></td>
</tr>
<tr>
<td>Front 3 – USB 2.0 1 – USB 3.0 1 – Microphone 1 – Headphone</td>
</tr>
<tr>
<td>Internal 1 – USB 2.0 1.25x USB 2.0 header. (Requires 3rd party splitter cable to support 2 x USB 2.0 Type A ports) 4 – SATA 6Gb/s</td>
</tr>
<tr>
<td>Rear 3 – USB 2.0 3 – USB 3.0 2 – PS2 1 – RJ45 Network Connector 1 – Serial 1 – Audio Line In/Microphone 1 – Audio Line out</td>
</tr>
<tr>
<td><strong>Chassis</strong></td>
</tr>
<tr>
<td>HxWxD: 16.30 x 6.79 x 18.54; 41.40cm x 17.25cm x 47.09cm</td>
</tr>
<tr>
<td>Bays: (1) external slimline optical bay; (2) internal 5.25” bays (support total of (2) 3.5” or 2.5” drives); (1) external 5.25” bay</td>
</tr>
<tr>
<td>State: (2) PCIe x16 Gen 3 (video) (2) PCIe x16 Gen 3 (reserved) (2) PCIe x16 Gen 3 (video) (2) PCIe x16 Gen 2 (2) PCI x16 Gen 3 (1) PCI 32</td>
</tr>
<tr>
<td>Power Supply: 825W, 689W 90% efficient 80PLUS Gold Certified. Externally accessible/ removable</td>
</tr>
<tr>
<td><strong>Storage devices</strong></td>
</tr>
<tr>
<td>Slimline options: DVD-ROM, DVD+/R-W, Optional 5.25” bay devices: BD, DVD+/R-W, 19-in-1 media reader, 2 x 2.5” HDD/SSD kit</td>
</tr>
<tr>
<td><strong>Monitors</strong></td>
</tr>
<tr>
<td>Dell UltraSharp Monitors - Award-winning high performance monitors with PremierColor (on select models) and ultra-wide viewing, from 21.5” - 34” Dell Monitors (P models) available from 19” – 28”</td>
</tr>
<tr>
<td><strong>Security Options</strong></td>
</tr>
<tr>
<td>Trusted Platform Module (TPM 2.0 with Win 10, TPM 12 with Win 7/8.1). Chassis Intrusion switch; Setup/BIOS Password; I/O Interface Security; Kensington® lock slot; Padlock ring; lockable power supply; Dell Data Protection (DDP); DDP</td>
</tr>
<tr>
<td><strong>Regulatory &amp; Environmental</strong></td>
</tr>
<tr>
<td>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 &amp; certifications, see Dell’s regulatory &amp; compliance homepage at dell.com/regulatory_compliance</td>
</tr>
<tr>
<td><strong>Warranty &amp; Support Services</strong></td>
</tr>
<tr>
<td>3-Year Limited Hardware Warranty and 3-year NBD On-Site Service after Remote Diagnosis</td>
</tr>
<tr>
<td>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</td>
</tr>
<tr>
<td><strong>TAA Configurations</strong></td>
</tr>
<tr>
<td>Yes</td>
</tr>
</tbody>
</table>