



Dell Precision Tower 7810 XL

Ultimate performance & scalability

Experience outstanding productivity

Power through resource-exhausting and graphics-intensive workloads with the advanced design of the dual processor Dell Precision Tower 7810 XL featuring:

- Single or dual Intel® Xeon® processor E5-2600 v3 have the frequency and cores to process multiple complex tasks quickly.
- With 2nd CPU installed, the Tower 7810 XL delivers 2X the memory bandwidth and CPU cores to quickly process compute intensive multi-threaded applications.
- Dell Precision Optimizer 2.0 automatically tunes application settings for optimized performance.
- 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.
- Choose from a broad selection of new professional grade AMD FirePro™ or NVIDIA® Quadro® graphics.
- Easily handle large data sets with up to 256GB^{4,6,10} of quad-channel 2133MHz DDR4 ECC RDIMM memory⁶.
- Optional Micron® P420m¹⁰ PCIe SSD drives deliver superb read throughput, exceptional reliability & power efficiency.
- Optional 12Gb/s PCIe SATA/SAS controllers facilitate data striping and mirroring for increased performance & data availability.

Reliability you can count on

You keep working, no matter what the challenges. Your workstation should too.

- Exclusive Reliable Memory Technology 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 easy access to components for service & modifications with ease.
- The only mainstream tower workstation family with externally accessible tool-less power supplies for superior serviceability.
- The Tower 7810 XL is up to 34% quieter than it's predecessor.
- Handles for easy deployment and moves.
- Easy access to front-mounted USB port & 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 warranty⁷.

Dell Precision Tower 7810 XL workstation

When you choose an OEM XL product, you receive a Tier 1 platform with the added benefits of improved image stability, advanced notifications of required changes, extended lifecycle transition periods and tailored services and support offerings.

XL Feature	Technical Specification																				
Processor Options (Class 1)	Intel® Xeon® processor E5-2697 v3; Intel® Xeon® processor E5-2695 v3 Intel® Xeon® processor E5-2680 v3; Intel® Xeon® processor E5-2667 v3 Intel® Xeon® processor E5-2650 v3; Intel® Xeon® processor E5-2643 v3 Intel® Xeon® processor E5-2640 v3; Intel® Xeon® processor E5-2620 v3 Intel® Xeon® processor E5-2609 v3																				
Operating System Options	Genuine Windows® 7 Ultimate for Embedded (32-Bit or 64-Bit) Genuine Windows® 7 Professional for Embedded (32-Bit or 64-Bit) Windows® 8.1 Pro (64-Bit), Genuine Windows® 7 Professional (64-Bit) Red Hat® Enterprise Linux® 7.0 Ubuntu 12.04 SP1 Linux																				
Chipset (Class 1)	Intel® C612Chipset																				
Graphics ⁶ Options (Class 2)	Support for two PCI Express® x16 Gen 2 or Gen 3 cards up to 300W total for graphics 825W PSU (restrictions?)																				
	<table border="0"> <tr> <td>High end 3D cards:</td> <td>Mid-range 3D cards:</td> <td>Entry 3D cards:</td> <td>Professional 2D cards:</td> </tr> <tr> <td>NVIDIA® Quadro® K6000</td> <td>AMD FirePro™ W7100¹²</td> <td>AMD FirePro 4100</td> <td>NVIDIA Quadro NVS 510¹</td> </tr> <tr> <td>NVIDIA® Quadro® K5200</td> <td>AMD FirePro™ W5100</td> <td>AMD FirePro 2100</td> <td>NVIDIA Quadro NVS 315¹</td> </tr> <tr> <td></td> <td>NVIDIA Quadro K4200</td> <td>NVIDIA Quadro K620</td> <td>NVIDIA Quadro NVS 310¹</td> </tr> <tr> <td></td> <td>NVIDIA Quadro K2200</td> <td>NVIDIA Quadro K420¹²</td> <td></td> </tr> </table>	High end 3D cards:	Mid-range 3D cards:	Entry 3D cards:	Professional 2D cards:	NVIDIA® Quadro® K6000	AMD FirePro™ W7100 ¹²	AMD FirePro 4100	NVIDIA Quadro NVS 510 ¹	NVIDIA® Quadro® K5200	AMD FirePro™ W5100	AMD FirePro 2100	NVIDIA Quadro NVS 315 ¹		NVIDIA Quadro K4200	NVIDIA Quadro K620	NVIDIA Quadro NVS 310 ¹		NVIDIA Quadro K2200	NVIDIA Quadro K420 ¹²	
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GPU GPGPU MCC Compute	<ul style="list-style-type: none"> • NVIDIA Tesla® K20C Computing Processor (GPGPU) • Intel 3120A Coprocessor (available via S & P in select regions) 																				

Class 1: Locked

Components locked down for product lifecycle

Components:

- Chipset
- OEM XL Processors
- System boards (PN's)

Class 2: Managed

Components managed throughout the lifecycle, minimum 3-month change notification.

Components:

- BIOS
- CPU and Chipset Stepping
- On-board Storage controller HW
- On-board NIC HW
- Memory Technology
- HDD Capacity
- Graphics Cards

Class 3: Monitored

Components follow the Dell standard refresh cycle.

Components:

- Subcomponents not considered Class 1 or Class 2
- Vendor changes
- Chassis and mechanical changes
- Vendor Part revision level

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 epeat.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. Requires second processor option 7. For copy of Ltd 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/servicesdescriptions. 10. Future availability Dell PCs use Genuine Microsoft Windows. Intel, the Intel logo, Xeon and Xeon Inside are trademarks or registered trademarks of Intel Corporation in the U.S. and other countries. Microsoft, Windows and Windows Vista are trademarks or registered trademarks of Microsoft Corporation in the U.S. and other countries. Dell is a trademark of Dell Inc. ©2013 Dell Inc. All rights reserved.



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