



Dell Precision Tower 7910

Ultimate performance & scalability



Experience outstanding productivity

Power through the most demanding compute and graphics-intensive workloads with the Dell Precision Tower 7910:

- Single or dual Intel® Xeon® processor E5-2600 v3 provide the performance, frequency & cores (up to 18 per processor) for the most complex workstation application environments
- Easily manage huge data sets with up to 1TB^{2,6,12} of 2133MHz DDR4² memory
- Choose from a broad selection of new professional grade AMD FirePro™ or NVIDIA® Quadro® graphics
- Integrated 12Gb/s SATA/SAS controller facilitates data striping and mirroring for increased performance & data availability
- Dell Precision Optimizer 2.0 autotunes application settings for optimized performance

Reliability you can count on

- Exclusive Reliable Memory Technology maximizes uptime by eliminating virtually all memory errors for more stability
- The result of hundreds of engineering hours and rigorous testing, Independent Software Vendor (ISV) Certifications offer peace of mind that your high performance software applications will run as designed

Reduce environmental impact

- Dell Precision Tower 7910 is EPEAT®-registered³ and offers ENERGY STAR® configurations, including 80 PLUS®-registered Gold power supplies

Best-in-class design

- Straightforward, clutter-free interior provides easy access to components and improved acoustic performance
- The only mainstream tower workstation family to offer an externally accessible tool-less (lockable) power supply for superior serviceability
- A split chassis design for superb air flow, improved acoustics, and serviceability
- Ample 1300W power supply for up to three high-end graphics cards

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

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)

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Feature	Technical Specification																								
Processor Options	One or two; Intel® Xeon® processor E5-2600 v3 family with up to eighteen ¹² 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																								
Operating System Options	<ul style="list-style-type: none"> 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 1TB ^{6,10} 2133 MHz DDR4 ECC RDIMM memory); 16 DIMM slots (8/ processor) ⁶																								
Chipset	Intel® C612Chipset																								
Graphics ⁶ Options	Support for up to four ⁶ PCI Express® x16 Gen 2 or Gen 3 cards up to 675W total for graphics (restrictions apply ⁷) <table border="1" data-bbox="381 457 1461 619"> <thead> <tr> <th>High end 3D cards:</th> <th>Mid-range 3D cards:</th> <th>Entry 3D cards:</th> <th>Professional 2D cards:</th> </tr> </thead> <tbody> <tr> <td>NVIDIA® Quadro® K6000</td> <td>AMD FirePro™ W7100¹²</td> <td>AMD FirPro 4100</td> <td>NVIDIA Quadro NVS 510</td> </tr> <tr> <td>NVIDIA® Quadro® K5200</td> <td>AMD FirePro™ W5100</td> <td>AMD FirePro 2100</td> <td>(not ISV certified)</td> </tr> <tr> <td></td> <td>NVIDIA Quadro K4200</td> <td>NVIDIA Quadro K620</td> <td>NVIDIA Quadro NVS™ 510</td> </tr> <tr> <td></td> <td>NVIDIA Quadro K2200</td> <td>NVIDIA Quadro K420¹²</td> <td>NVIDIA Quadro NVS 315</td> </tr> <tr> <td></td> <td></td> <td></td> <td>NVIDIA Quadro NVS 310</td> </tr> </tbody> </table>	High end 3D cards:	Mid-range 3D cards:	Entry 3D cards:	Professional 2D cards:	NVIDIA® Quadro® K6000	AMD FirePro™ W7100 ¹²	AMD FirPro 4100	NVIDIA Quadro NVS 510	NVIDIA® Quadro® K5200	AMD FirePro™ W5100	AMD FirePro 2100	(not ISV certified)		NVIDIA Quadro K4200	NVIDIA Quadro K620	NVIDIA Quadro NVS™ 510		NVIDIA Quadro K2200	NVIDIA Quadro K420 ¹²	NVIDIA Quadro NVS 315				NVIDIA Quadro NVS 310
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GPU GPGPU	<ul style="list-style-type: none"> One or two NVIDIA Tesla® K20C Computing Processors (GPGPU) 																								
MCC Compute	<ul style="list-style-type: none"> Intel 3120A Coprocessor (S & P in select regions) 																								
Storage Options	Up to eight 2.5" SATA or SAS drives or up to four 3.5" SATA or SAS drives <table border="1" data-bbox="381 703 1445 766"> <thead> <tr> <th>SATA 7200RPM</th> <th>SAS 10K RPM</th> <th>SAS 15k RPM</th> <th>SATA SSD</th> <th>SAS SSD</th> <th>PCIe SSD Micron P420m¹⁰</th> </tr> </thead> <tbody> <tr> <td>Up to 4.0TB</td> <td>up to 1.2TB</td> <td>Up to 600GB</td> <td>Up to 512GB</td> <td>Up to 512GB</td> <td>700GB/1.4TB</td> </tr> </tbody> </table>	SATA 7200RPM	SAS 10K RPM	SAS 15k RPM	SATA SSD	SAS SSD	PCIe SSD Micron P420m ¹⁰	Up to 4.0TB	up to 1.2TB	Up to 600GB	Up to 512GB	Up to 512GB	700GB/1.4TB												
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Storage Controller	Integrated: <ul style="list-style-type: none"> LSI SAS 3008 SATA/SAS 12Gb/s controller supports software RAID 0, 1, 10 Optional <ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Thunderbolt 2 PCIe card w DisplayPort loop back cable Serial port PCIe card, 1 port; 1394a/b PCIe card, 3 ports - 1x 1394a, 2x 1394b 																								
Communications	Intel I217 & I210 Gigabit Ethernet controllers with Intel Remote Wake UP, PXE and Jumbo frames support Optional Intel I210 10/100/1000 Gigabit Ethernet controller (PCIe card), 1 X RJ45, Intel X540-T2 10GbE Ethernet Server Adapter (PCIe x8 card), 2 X RJ45 Remote Wake UP, PXE and Jumbo frames support																								
1:1 Remote Access Options	<ul style="list-style-type: none"> Tera2 dual & quad display PCoIP™ PCIe Remote access host cards for Wyse P25/P45 zero client & soft clients Teradici PCoIP® Workstation Access Software 																								
Ports	Front : 3 USB 2.0, 1 USB 3.0, 1 Microphone, 1 Headphone Internal: 3 USB 2.0, 8 SATA/SAS 12Gb/s, 2 SATA 6Gb/s (for optical drive(s)) Rear: 3 USB 2.0, 3 USB 3.0, 2 PS2, 2 RJ45, 1 Serial																								
Dimensions	Dimensions (HxWxD): 16.95 x 8.50 x 20.67"; 438 x 216 x 545mm																								
Bays, chassis, ports	Bays: One external slimline optical bay, one external 5.25" bay, four 3.5" or eight 2.5" front accessible hard drive bays (four in 5.25" bay) 5 slots, all full length except slot 1. Two PCIe x16 Gen 3 (plus 2 additional PCIe x16 Gen 3 with second processor option); 1 PCIe x16 Gen 3 wired x4-(slot 1); 1 PCIe x16 Gen 2 wired x4; 1 PCI 32 bit/33MHz																								
Monitors	Dell UltraSharp series - Award-winning high-performance monitors with PremierColor (on select models) and ultrawide viewing, from 21.5"-30". Dell Professional series monitors available from 17"-24".																								
Optical Drive	Slim-line tray load options: DVD-ROM; DVD+/-RW																								
Security Options	Trusted Platform Module (TPM 1.2); Intrusion switch; Setup/BIOS Password; I/O Interface Security; Kensington® lock slot, Padlock ring, Internal bezel lock; lockable power supply; Dell Data Protection (DDP): DDP Security Tools for authentication; DDP Protected Workspace for malware; DDP Encryption for data protection																								
Regulatory & Environmental	Regulatory Model: P29F, Regulatory Type: P29F001, EPEAT Registered. For specific country participation and rating, please see www.epeat.net . BFR/PVC free ⁸																								
Warranty & Support Services	Limited Hardware Warranty ¹⁰ ; Standard 3-year On Site Service after Remote Diagnosis ⁷ . Optional 3 year Dell ProSupport premium support from expert technicians & 24x7 global availability ⁷ . 4 & 5 year support options ³																								
Configuration Svcs. ³	Factory Image load. BIOS Customization. Hardware Customization, Asset Tagging and Reporting																								

OEM ready models available: Learn more about custom-branded solutions at Dell.com/OEM.

1. A 64-bit OS is required to support 4GB or more of system memory. Max memory with Windows 7 is 192GB. Greater than 192GB requires RHEL 6.4 or Windows 8 64Bit
 2. ISV certification applies to select configurations. 3. Availability and terms of Dell Services vary by region. For more information, visit www.dell.com/servicesdescriptions
 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. Some options available only in select regions. 8. 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. 9. 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 www.dell.com/warranty and not resolved remotely, technician and/or part will be dispatched, usually within one business day following completion of Remote Diagnosis. Availability varies. Other conditions apply. 10. Future availability Dell is a trademark of Dell Inc. ©2013 Dell Inc. All rights reserved.

