



Dell Precision Tower 7000 Series (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 v4 provide the performance, frequency & cores for the most complex workstation application environments
- Easily manage huge data sets with up to 1TB^{1,2} of 2400MHz of DDR4 ECC memory
- Choose from a broad selection of new professional grade AMD FirePro™ or NVIDIA® Quadro® graphics
- Integrated 12Gb/s SAS/ SATA @6Gbs PCIe hard drive controller
- Dell Precision Optimizer auto-tunes application settings for up to 121% 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 solution³
- Optional Intel PCIe SSD drives and M.2 PCIe NVMe SSDs on the actively cooled Dell Precision Ultra-Speed Drive Duo and 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 engineering hours and rigorous testing, Independent Software Vendor (ISV) Certifications offer peace of mind that your high performance software applications will run as designed

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
- Up to 49% acoustic performance improvement Vs predecessor – plus liquid cooling CPU options for even better acoustics under heavy loads
- Ample 1300W power supply supports 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 warranty^{4,5,6}

Feature Precision Tower 7000 Series (7910) Technical Specification						
Processor Options	One or two Intel® Xeon® processor 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					
Operating System Options	Windows® 10 Professional (64 bit) Windows® 8.1 Professional (64-Bit) Windows® 7 Professional (64-Bit)			Red Hat® Enterprise Linux® 7.0 and 7.2 (required for Xeon E5-2600 v4 CPUs), RHEL 6.5 supported – future 6.8 for E5-2600 v4) Ubuntu 14.04 NeoKylin 6.0 (China only)		
Chipset	Intel® C612					
Memory Options	Quad channel memory up to 1TB 2400MHz DDR4 ECC memory with dual CPUs, 16 DIMM Slots (8 DIMMs per CPU). Note: memory speed is dependent on specific Intel Xeon E5-2600 v4 Series processor installed					
Graphics ⁴ Options	Support for 4 PCI Express® x16 Gen 2/Gen 3 graphics cards - up to 675W (total 3 x 225W graphics cards in 3 slots)					
	High end 3D cards: AMD FirePro W9100 AMD FirePro W8100 NVIDIA Quadro M6000 NVIDIA Quadro K6000 NVIDIA Quadro M5000	Mid-range 3D cards: AMD FirePro W7100 AMD FirePro W5100 NVIDIA Quadro M4000 NVIDIA Quadro M2000 NVIDIA Quadro K2200	Entry 3D cards: AMD FirePro W4100 AMD FirePro W2100 NVIDIA Quadro K620 NVIDIA Quadro K420	Professional 2D cards: NVIDIA NVS 510 NVIDIA NVS 315 NVIDIA NVS 310		
Storage Options	Support for up to (4) M.2 PCIe SSDs and up to (4) 3.5" SATA or (8) 2.5" SATA/SAS drives. Optional PCIe controller required for RAID 5 support.					
	M.2 PCIe SSD (NVMe) Up to (4) 1TB drives on Dell Precision Ultra-Speed Drive Quad. PCIe SSD HH/HL card Up to (2) Intel 1.2TB PCIe SSD NVMe drives	2.5" SATA SSD Up to (8) 1TB drives 2.5" SAS SSD Up to (8) 400GB drives	2.5" SATA 7200 RPM Up to (8) 512GB 7200 RPM	3.5" SATA Up to (4) 4TB 5400 RPM	2.5" SAS 10K RPM 12Gb/s Up to (8) 1.8TB 2.5" SAS 15K RPM 12Gb/s Up to (8) 600GB	2.5" Self Encrypting Drives 512GB 2.5" FIPS SED (OPAL 2.0) SSD
Storage Controller	Integrated: LSI SAS 3008 12Gb/s SAS (6Gb/s SATA) controller supports software RAID 0, 1, 10 with up to 8 hard drives. 2 integrated Intel controller (6Gb/s) SATA ports for optical drives. Optional: LSI MegaRAID® SAS 9341-8i 12Gb/s SAS (6Gb/s SATA) PCIe controller supports software RAID 0,1,5,10. LSI MegaRAID® SAS 9361-8i 12Gb/s SAS (6Gb/s SATA)) PCIe controller (1GB cache with Flash module/Super Cap backup) supports hardware RAID 0,1,5,10					
Communications	Integrated: ® Intel I217 & I210 Gigabit Ethernet controllers with Intel Remote Wake UP, PXE and Jumbo frames support Optional: Intel® i210 10/100/1000 single port PCIe (x1) Gigabit network card, Intel® X540-T2 10GbE dual port PCIe (x8) network card,					
Audio Controller	Integrated Realtek ALC3220 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/FL,x16) with active cooling. Support for up to 2 and 4 M.2 PCIe NVMe SSDs respectively. Optional 1394 a/b PCIe Card (3 Ports – 2x 1394b + 1x 1394a)				Optional dual & quad display Teradici PCoIP remote workstation host PCIe cards Optional Thunderbolt 2 PCIe Card Optional Serial Port PCIe Card	
I/O Ports	Front 3 – USB 2.0 1 – USB 3.0 1 – Microphone 1 – Headphone	Internal 1 – USB 2.0 1 2x5 USB 2.0 header. (requires 3 rd party splitter cable to support 2 x USB 2.0 Type A ports) 8 – SAS @ 12Gb/s (supports SATA @6Gb/s as well)	Rear 3 – USB 2.0 3 – USB 3.0 1 – Serial 2 – PS2 1 – Audio Line out 1– Audio Line in/Microphone 2 – RJ45 Network			
Chassis	HxWxD: 16.95 x 8.50 x 20.67"; 43.05cm x 21.59cm x 52.50cm Bays: (1) external slimline optical bay; (4) internal 3.5" bays (support total of (4) 3.5" or 2.5" drives); (1) external 5.25" bay (up to 4 2.5" drives) Slots: (2) PCIe x16 Gen 3 [(2) more with 2 nd CPU]; (1) PCIe x16 Gen 3 [wired as x4 – Slot 1], (1) PCIe x16 Gen 2 [wired as x4]; (1) PCI 32Bit Power Supply: 1300W (input voltage 181VAC-240AC) –90% efficient (80PLUS Gold Certified) Externally accessible/removable					
Storage devices	Slimline options: DVD-ROM; DVD+/-RW, Optional 5.25" bay devices: BD, DVD+/-RW; 19-in-1 media reader, 4 x 2.5" HDD/SSD kit					
Monitors	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".					
Security Options	Trusted Platform Module (TPM 1.2); Chassis Intrusion switch; Setup/BIOS Password; I/O Interface Security; Kensington® lock slot, Padlock ring, lockable power supply; Dell Data Protection (DDP): DDP Security Tools for authentication; DDP Protected Workspace for malware; DDP Encryption for data protection					
Regulatory & 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					
TAA Configurations	Yes					

Some options available only in select regions; ISV certification applies to select configurations 1. A 64-bit operating system is required to support 4GB or more of system memory; 2. GB means 1 billion bytes and TB equals 1 trillion bytes; actual capacity varies with preloaded material and operating environment and will be less. 3. Available in select regions. 4. 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; 5. 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; 6. Availability and terms of Dell Services vary by region. For more information, visit www.dell.com/servicesdescriptions; Copyright 2016 Dell Inc. All rights reserved. Intel and Xeon are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States of America and other countries. Microsoft, and Windows are trademarks or registered trademarks of Microsoft Corporation in the U.S. and other countries. . Other trademarks or trade names may be used in this document to refer to either the entities claiming the marks and names or their products. Dell disclaims proprietary interest in the marks and names of others. Reproduction in any manner whatsoever without express written permission from Dell Inc. is strictly forbidden.