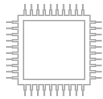




The world's most powerful workstation.

PRECISION 7920 TOWER



Powerful performance

Power through the most complex, demanding applications more quickly with a new generation of dual-socket performance with the Intel® Xeon® processor Scalable family featuring up to 28 cores per processor. System memory is expandable up to 3TB of faster 2666MHz with select processors. 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.



Latest technology

Ready for complex projects, including virtual reality workflows, with the next generation AMD Radeon Pro™ and highest performing NVIDIA Quadro® professional graphics with support for up to 750W of graphics power. No project is too big with up to 48TB of total storage. Front access FlexBays provide maximum storage expandability 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

FlexBay design supports a range of modules from scalable storage to audio options, you can build the workstation designed for your creative expertise. Secure your data with the optional Smart Card (CAC/PIV) reader 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 (Independent Software Vendor certified) to ensure the high-performance applications you rely on every day run smoothly.

Features & Technical Specifications



Feature	Precision 7920 Tower Technical Specifications
Processor Options	<p>One or two Intel® Xeon® processor Scalable family CPUs with up to 28 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</p> <p>Windows 10 Pro for Workstations (up to 4 Cores) Windows 10 Pro for Workstations (4 Cores Plus) Windows 10 Pro for Workstations Downgrade to Windows 7 (up to 4 Cores) Windows 10 Pro for Workstations Downgrade to Windows 7 (4 Cores Plus)</p>
Operating System Options	<p>Red Hat® Enterprise Linux® 7.3 Ubuntu Linux 16.04 Suse Linux (SLES 12 SP2) supported NeoKylin 6.0 SP3 (China only)</p>
Chipset	<p>Intel® C621 (Lewisburg)</p>
Memory Options ¹	<p>Six channel memory up to 1.5TB 2666MHz DDR4 ECC memory with dual CPUs, up to 3TB with select CPU SKUs 24 DIMM Slots (12 DIMMs per CPU). Note: memory speed is dependent on specific Intel® Xeon® Processor Scalable processor installed</p> <p>Support for 4 PCI Express® x16 Gen 3 graphics cards - up to 750W with maximum of 3 x 250W double width graphics cards in 3 slots (dual CPU configuration) and up to 2 x 375W cards 220VAC input supply recommended for 750W configurations and some restrictions apply</p>
Graphics Options	<p>High end 3D cards: Radeon™ Pro WX 9100 Radeon™ Pro SSG (future) NVIDIA Quadro GP100 NVIDIA Quadro P6000 NVIDIA Quadro P5000</p> <p>Mid-range 3D cards: Radeon™ Pro WX 7100 Radeon™ Pro WX 5100 Radeon™ Pro WX 4100 NVIDIA Quadro P4000 NVIDIA Quadro P2000</p> <p>Entry 3D cards: Radeon™ Pro WX 3100 Radeon™ Pro WX 2100 NVIDIA Quadro P1000 NVIDIA Quadro P600 NVIDIA Quadro P400</p> <p>Professional 2D cards: NVIDIA NVS 310 NVIDIA NVS 315</p>
Storage Options (Check regional availability)	<p>Front accessible FlexBays support up to 4 x 2.5"/3.5" SATA HDD/SSDs and up to 8 drives with rear FlexBays populated with integrated Intel SATA controller. Up to 10 x 2.5"/3.5" SATA/SAS drives - requires the Broadcom MegaRAID 9460-16i controller. Up to 4 front accessible (hot plug) M.2 NVMe PCIe SSDs in FlexBays on enabled PCIe chassis with integrated Intel controller (>2 drives requires dual CPUs). NVMe RAID 0,1 option (Intel RSTe vROC). Dell M.2 carrier with PCIe SSD for PCIe FlexBay available as customer kit. Up to 8 x M.2 NVMe PCIe SSDs via 2 x Dell Ultra-Speed Drive Quad x16 cards (maximum requires dual CPUs), NVMe RAID 0,1,10 option on 1st card (Intel RSTe vROC).</p> <p>M.2 NVMe PCIe SSDs Up to 8* x 1TB drives on 2 Dell Precision Ultra-Speed Drive Quad x16 cards. *Requires dual CPU config.</p> <p>Front FlexBay M.2 NVMe PCIe SSDs Up to 4* x 1TB drives, 2 drives per CPU. *Requires dual CPU config.</p> <p>2.5" SATA SSD Up to 10 x 1TB drives</p> <p>2.5" SAS SSD Up to 10 x 800GB drives</p>

	<p>3.5" SAS 7200 RPM 12Gb/s Up to 10 x 4TB</p> <p>2.5" SAS 10K RPM 12Gb/s Up to 10 x 1.8TB</p> <p>2.5" SAS 15K RPM 12Gb/s Up to 10x 900GB (future)</p> <p>2.5" Self Encrypting Drives 512GB 2.5" SED (OPAL/ FIPS (140-2) HDD)</p> <p>M.2 PCIe SED SSD 512GB and 1TB</p>
Storage Controller	<p>Integrated: Intel® chipset SATA controller (6Gb/s) with 6 SATA ports plus 2 dedicated ports for optical drives. Intel RSTe software RAID 0,1,5,10. Intel RSTe (vROC) software RAID 0,1,10 option (motherboard activation key) for M.2 NVMe PCIe SSDs on 1st Dell Ultra-Speed Drive Quad x16 or Duo x8 card (RAID 0,1) or front FlexBay NVMe PCIe SSDs (2 drive RAIDsets only with RAID 0,1) Customer kit available for Intel RSTe (vROC) motherboard activation key for NVMe RAID support.</p> <p>Optional: Broadcom MegaRAID® SAS 9440-8i 12Gb/s SAS (6Gb/s SATA) PCIe controller, 8 ports, Software RAID 0,1,5,10. MegaRAID® SAS 9460-16i 12Gb/s SAS (6Gb/s SATA)) PCIe controller (4GB cache with Flash module/ Super Cap backup) Hardware RAID 0,1,5,10</p>
Communications	<p>Integrated: Intel® i219 & i210 Gigabit Ethernet controllers with Intel Remote Wake UP, PXE and Jumbo frames support</p> <p>Optional: Intel® i210 10/100/1000 single port PCIe (Gen 3 x1) gigabit network card, Intel® X550-T2 10GbE dual port PCIe (Gen 3 x4) network card, Aquantia AQN-108 2.5Gbit/5Gbe single port PCIe (Gen3 x4) network card</p>
Audio Controller	<p>Integrated Realtek ALC3234 High Definition Audio Codec (2 Channel) Optional Dell Digital Audio Interface (2Ch, 120dB S/N ratio – 5.25" Flex Bay option (USB interface) (future)</p>
Speakers	<p>Internal Speaker; Optional Dell 2.0 stereo speaker systems available and Dell sound bar for select flat-panel displays</p>
Add-in cards	<p>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 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</p>
I/O Ports	<p>Front 2 – USB 3.1 Gen 1 Type A 2 – USB 3.1 Type C 1 – Universal Audio Jack Up to 4 x 4 PCIe slots in PCIe enabled chassis for M.2 and U.2 (future) PCIe SSDs</p> <p>Internal 1 – USB 2.0 1 - 2 x 5 USB 2.0 header. (requires 3rd party splitter cable to support 2 x USB 2.0 Type A ports) 8 – SATA @6Gb/s plus 1 SATA for optical</p> <p>Rear 6 – USB 3.1 Gen 1 Type A 1 – Serial 2 – RJ45 Network 2 – PS2 1 –Audio Line out 1 – Audio Line in/Microphone</p>
Chassis	<p>HxWxD: 433mm x 218mm x 566mm. Optional 19" rackmount rail kit Bays: (4) FlexBays and (1) 5.25" FlexBay supporting up to 10 x 3.5" or 2.5" drives (with MegaRAID 9460i-16 controller) (1) Slimline optical bay option adjacent to 5.25" bay; Available 2nd 5.25" bay – consumes/converts 2 FlexBays, (1) SD slot UHS II Class 3 with read only support (SW enabled). Available PCIe chassis with PCIe FlexBays supporting M.2 NVMe PCIe SSDs and future U.2 NVMe PCIe SSDs. PCIe FlexBay customer kit available.</p> <p>Slots: All slots PCIe Gen 3: (2) PCIe x16, (2) additional x16 slots with 2nd CPU; (1) PCIe x8 open ended, (1) x16 wired as x 4, (1) x16 wired as x1</p> <p>Power Supply: 1400W (input voltage 100VAC - 240VAC) –90% efficient (80PLUS Gold Certified) Externally accessible/removable/lockable</p>

Storage devices	Slimline options: DVD-ROM; DVD+/-RW Optional 5.25" bay devices: BD, DVD+/-RW;
Security Options (Check regional availability)	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
Manageability	AMT or vPro with DASH support Dell vPro Enhancements (Grasslake) SNMT/CIM vis OMCI Dell Command Suite
Regulatory and Environmental Compliance	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 Services⁵	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	YES (check regional availability)



ISV certification applies to select configurations:

- ¹ GB means 1 billion bytes and TB equals 1 trillion bytes; actual capacity varies with preloaded material and operating environment and will be less.
- ² 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.
- ³ Computrace is not a Dell offer. Certain conditions apply. For full details, see terms and conditions at www.absolute.com/en/about/legal/agreements.
- ⁴ 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 upgradeable 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.
- ⁵ 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.

Essential Accessories

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Dell Canvas



Dell Wireless Premium
Keyboard & Mouse
Combo | KM717



Dell UltraSharp Ultra HD
4K Monitor with
PremierColor | UP3216Q



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