



PRECISION 7920 Rack

Ultimate performance and security in a 2U form factor.



INTELLIGENT PERFORMANCE

Power through the most complex, demanding applications more quickly with a new generation of dual-socket performance with the Intel® Xeon® Scalable Processor 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 (DPO) software, which automatically tunes your workstation to run some of the most popular (ISV) applications at the fastest speeds possible. DPO Premium is an AI-based version which optimizes all your applications. Keep this consistent with the other spec sheets, that uses Machine Learning to optimize the workstation based on how the user uses it.



INNOVATIVE DESIGN

Ideal for secure remote users (1:1) the industrial 2U design fits seamlessly into your datacenter and delivers the same power and scalability as our highest-performing tower workstation. The Integrated Dell Remote Access Controller (iDRAC) allows you to deploy, update, monitor and maintain remote workstations with ease.



LATEST TECHNOLOGY

Ready for complex projects, including artificial intelligence and virtual reality workflows, with next generation AMD Radeon Pro™ and NVIDIA Quadro® RTX professional graphics with support for up to 900W of graphics power. No project is too big with up to 80TB of total storage featuring enterprise class SATA hard drives and Dell Precision Ultra-Speed drives with up to 8 M.2 PCIe NVMe SSDs.



MISSION-CRITICAL RELIABILITY

All Dell Precision workstations are Independent Software Vendor (ISV) certified to ensure the high-performance applications you rely on every day run smoothly. Also, with Xeon processors you can get Error Correcting Code (ECC) memory which identifies and corrects single bit memory errors. Our exclusive Reliable Memory Pro software works on top of ECC memory to identify and map out bad memory sectors and will alert you when the memory is at a critical level and needs replaced - providing layers of protection against memory related errors.

Essential Accessories

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Dell Wyse 5030

Teradici PCoIP Zero clients for VMware and Amazon WorkSpaces built for CAD, 3D solids modeling, video editing and more.



Dell Wireless Premium Keyboard & Mouse Combo | KM717

Enhance productivity and enjoy its elegant design that will fit into virtually any workspace. For increased productivity you can simultaneously pair up to two compatible devices with Bluetooth LE.



Dell Ultrasharp Monitor | U2719D

See fine details and true-to-life color on this 27" QHD monitor in an innovative, stylishly thin design



Dual Monitor Stand - MDS19

Optimize your desk space with a small footprint and impressive cable management features. Mount up to two 27" monitors without tools.



3Dconnexion SpaceMouse Wireless

SpaceMouse Pro Wireless handles 3D navigation for a revolutionary two-handed work style preferred by the world's top 3D professionals. Intuitively examine and analyze your designs from every angle.



X-Rite Colorimeter i1Display Pro

The i1Display Pro ensures a perfectly calibrated and profiled display while delivering the speed, options and flexibility needed to maintain color accuracy.

Built for business

Dell Technologies Unified Workspace

Dell Technologies Unified Workspace is the most comprehensive solution to deploy, secure, manage and support virtually all devices from the cloud. We designed this revolutionary solution with intelligence and automation providing you with visibility across the entire endpoint environment. We help you save time, improve user experience, optimize resources and strengthen security.



DEPLOY

Our modern deployment solution, ProDeploy in the Unified Workspace allows you to revolutionize the way deployment gets done. By spending just one hour for set up, IT can then hand deployment to Dell and have preconfigured systems shipped directly to the end users--wherever they are.



SECURE

Dell Endpoint Security for the Unified Workspace helps you manage growing cyber risks while embracing workforce transformation. With Dell SafeGuard and Response powered by Secureworks, you gain actionable insight to help you quickly and efficiently prevent, detect and respond to cyber-attacks - keeping your environment free from harm.



MANAGE

We integrated our hardware management solution Dell Client Command Suite with VMware Workspace ONE, allowing you to take advantage of unified endpoint management (UEM) and manage the firmware, operating system and applications for all devices from the Workspace ONE console. UEM simplifies the management of the entire environment saving IT time from having to work between separate consoles for PCs and phones.



SUPPORT

ProSupport Plus continues to be the only predictive and proactive support in the market. When compared to key competitors, ProSupport Plus with SupportAssist reduced time to resolve a failed hard drive with up to 11x faster time to resolution*

*Based on a Principled Technologies test report, "Spend Less Time and Effort Troubleshooting Laptop Hardware Failures" dated April 2018. Testing commissioned by Dell, conducted in the United States. Actual results will vary. Full report: <http://facts.pt/L52XKM>

Features & Technical Specifications

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Feature	Precision 7920 Rack Technical Specifications	Storage Options ²	
Processor Options	One or two Intel Xeon Scalable Processor family CPUs (1 st and 2 nd generation) 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	2.5" SATA SSD Up to 8 x 1TB 2.5" SAS SSD Up to 8 x 800GB 2.5" SATA 7200 RPM Up to 8 x 2TB 3.5" SATA 7200 RPM Up to 8 x 8TB 2.5" SAS 10K RPM 12Gb/s Up to 8 x 1.8TB 2.5" SAS 15K RPM 12Gb/s Up to 8 x 600GB	
Operating System Options	Windows® 10 Pro for Workstations (up to 4 Cores) Windows® 10 Pro for Workstations (4 Cores Plus) Red Hat® Enterprise Linux® 7.5 Red Hat Enterprise Linux 8.0 (Sept. 2019) is required for 2 nd Generation Xeon SP (Cascade Lake) CPUs Ubuntu Linux 16.04, 18.04	Storage Controller	Integrated: 2 x Intel chipset AHCI 6Gb/s SATA controllers with 4 ports (total 8) each for HDD/SSD. One port for optical drive Intel RSTe software RAID 0, 1,5,10 supported across 4 SATA ports on 1st controller only. (Maximum 4 drives in RAIDset) 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 (0,1). Customer kit available for Intel RSTe (vROC) motherboard activation key for NVMe RAID support. Optional: PERC H330 12Gb/s SAS (6Gb/s SATA) 8 port PCIe controller supports JBOD and software RAID 0,1,5,10 PERC H730P PCI-e SAS 12Gb/s (SATA 6Gb/s) Hardware RAID PCIe controller with 1GB cache (Super Cap backup, RAID 0/1/5/10 (no JBOD)) PERC H740P PCI-e SAS 12Gb/s (SATA 6Gb/s) Hardware RAID PCIe controller with 4GB cache (Super Cap backup), RAID 0/1/5/10 (no JBOD) Note: Windows 7 is not supported on the PERC H740P controller. PERC controllers are installed in Slot 3
Chipset	Intel® C621 (Lewisburg)		
Memory Options ¹	Six channel memory up to 1.5TB 2666MHz DDR4 ECC memory with dual CPUs, up to 3TB with select CPU SKUs Up to 768GB of 2933MHz DDR4 ECC memory 24 DIMM Slots (12 DIMMs per CPU). Note: memory speed is dependent on specific Intel Xeon Scalable Processor CPU installed	Network Daughter Cards	Base: Intel® i350-Quad port 1Gb Ethernet Network Daughter Card (4 x 1Gb ports), Optional: Intel® X550-Dual port 10Gb + Intel i350 Dual port 1Gb Ethernet Network Daughter card (2 x 10Gb + 2 x 1Gb ports) Intel® X710* Dual port 10Gb DA/SFP+, + i350 Dual port 1Gb Ethernet Network Daughter card Integrated: Integrated Broadcom® BCM54210 Ethernet LAN 10/100/1000 for iDRAC9 controller use with System Management tool suite
Graphics Options ¹	Support for 3 PCI Express® x16 Gen 3 graphics cards ¹ - up to 900W with 3 x 300W double width graphics cards (dual CPU configuration) Dual non-redundant 1600W PSUs @220V required for select high wattage graphics card configurations, and some restrictions apply High end 3D cards: Radeon™ Pro WX 9100 Radeon™ Pro SSG NVIDIA Quadro GV100 NVIDIA Quadro P6000 NVIDIA Quadro RTX 8000 (future) NVIDIA Quadro RTX 6000 NVIDIA RTX 5000 NVIDIA Quadro P5000 Mid-range 3D cards: Radeon™ Pro WX 7100 Radeon™ Pro WX 5100 Radeon™ Pro WX 4100 NVIDIA Quadro RTX 4000 NVIDIA Quadro P4000 NVIDIA Quadro P2000 Entry 3D cards: NVIDIA Quadro P620 NVIDIA Quadro P400 Integrated VGA graphics motherboard connector (part of iDRAC9 Systems Management and requires iDRAC9 Enterprise license to enable)	1:1 Remote Workstation Access Solutions	Optional: Teradici Dual and Quad display PCoIP™ PCIe remote access host cards Wyse 5030 and Amulet Hotkey DXZ4 PCoIP Zero clients. Teradici PCoIP software clients for Windows, Mac, iOS, Android and ChromeOS available from Teradici
Storage Options ²	Support for up to (8) 2.5" or 3.5" SATA/SAS drives, 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). PERC PCIe controllers required for SAS drive support M.2 NVMe PCIe SSDs Up to 8* x 2TB drives on 2 Dell Precision Ultra-Speed Drive Quad x16 cards. *Requires dual CPU config.	Manageability ³	Dell OpenManage™ portfolio options that include Dell's exclusive Integrated Dell Remote Access Controller (iDRAC) with Lifecycle Controller – includes one VGA graphics connection, Intel® vPro™ Technology's advanced management features (optional, requires Intel WiFi® Link WLAN)

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Add-in cards	Optional: Dell Precision Ultra-Speed Drive Duo (HH/HL,x8 card) and Ultra-Speed Drive Quad (FH/FL,x16 card) with active cooling. Support for up to 2 and 4 M.2 NVMe PCIe SSDs respectively. USB 3.1 (Gen 2) 10Gb/s Type C card (2 ports) 1 DP pass-through port Optional: Dual & quad (FH card) display Teradici PCoIP PCIe remote workstation access cards. Full height and low profile bracket versions of dual display card available. Serial Port PCIe Card (single port)
I/O Ports	Front 2 – USB 2.0 1 – USB 2.0 Management port (iDRAC9) 1 - VGA Port for iDRAC9 Internal 1 – USB 3.1 Type A – supports standard USB storage key SD Vflash media connector Rear 2 – USB 3.1 Type A 4 – RJ45 Network 1 – Serial 1 – RJ45 for iDRAC 1 –A VGA Port for iDRAC
Chassis	HxWxD: 3.41" x 17.0" x 28.37" (29.78" with bezel); 86.8mm x 482mm x 715.5mm (751.3mm with bezel) Bays: (1) external slimline optical bay; (8) front accessible 3.5" bays (support total of (8) 3.5" or 2.5" HDD/SSD drives) Slots: All slots PCIe Gen 3. (6) PCIe full height/full length slots, (1) PCIe full height/half length slot, (1) PCIe low profile/full length slot Up to (3) double width x16 cards supported. All slots x16 mechanically. • With single CPU – (1) x x16, (1) x x8, (1) x x8 half length, (1) x x8 low profile PCIe slots • With dual CPUs (2) x x16, (2) x x8 PCIe slots Power Supply: One or two redundant hot pluggable 1100W –90% efficient (80PLUS Gold Certified), Available 1600W PSU in non-redundant mode @220V is required for certain configurations.
Storage devices	Slimline options: DVD-ROM; DVD+/-RW
Security Options	Trusted Platform Module (TPM 1.2 or TPM 2.0); chassis Intrusion switch; Setup/BIOS Password; I/O Interface Security; lockable front bezel, Dell Data Guardian, Dell Endpoint Security Suite Enterprise
Regulatory and Environmental	For a complete listing of declarations & certifications, see Dell's regulatory & compliance homepage at dell.com/regulatory_compliance
Warranty & Support Services ¹	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



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Create without limits.

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.

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.

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