



Dell Precision Rack 7910

Ultimate performance and security

Why a rack? Because your work demands it.

When the job calls for more security and flexibility in remote or virtualized workstation environments, the Dell Precision Rack 7910 delivers.

- If security is top priority, you need more than a lock and key. Safely house your intellectual property in the datacenter
- Inhospitable or hazardous environment? Need a quiet, cool workspace? Provide employees with workstation-class performance remotely so they can stay productive no matter where they work

Flexible deployment for 1:1 or virtualized 1: many environments – with ISV Certifications

- Deploy 1:1 with optional Wyse P25 and P45 zero clients, running the Teradici™ PCoIP protocol for remote connectivity to provide a superb, responsive workstation experience
- For virtualized ESX and Citrix environments, extend productivity and security benefits to multiple users via 1-4 users with GPU passthrough
- For even greater scalability, deploy Nvidia's Grid technology for one-to-many (shared graphics) virtualized workstation users running true Open GL 4.X/DX11 based applications

Peak performance and smart design

Experience the same power and scalability as our highest-performing tower workstation, with the convenience of a slim 2U design.

- Take on the toughest most complex applications/workloads including workstation virtualization environments with 1 or 2 Intel® Xeon® processors (E5-2600 v3) with up to 36 cores^{6,10}
- Easily manage huge data sets with up to 1TB^{6,10} of 2133MHz DDR4 quad-channel ECC RDIMM memory
- Powerful in and out-of band systems management with Dell OpenManage™ portfolio featuring Dell Integrated Remote and Lifecycle Access Controllers
- New professional grade AMD FirePro™ or NVIDIA® Quadro® graphics plus NVIDIA Grid and Tesla GPGPU options

Seamlessly run your software applications

- Dell's exclusive, patented Reliable Memory Technology maximizes uptime by eliminating virtually all memory errors, for a stable platform you can trust
- The result of hundreds of engineering hours and rigorous testing, Independent Software Vendor (ISV) Certifications offer peace of mind that your professional software applications run as designed

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Feature	Technical Specification																
Processor Options	One or two; Intel® Xeon® processors E5-2600 v3 family with up to eighteen cores ¹⁰ 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 Professional 64-Bit • Genuine Windows® 7 Professional 64-Bit • Red Hat® Enterprise Linux® WS 7.0 																
Hypervisors	<ul style="list-style-type: none"> • VMware ESXi • Citrix XenServer 																
Memory Options	Quad channel; Up to 1TB ^{6,10} 2133 MHz DDR4 ECC RDIMM memory (32GB RDIMM); 16 DIMM slots (8/processor ⁶)																
Chipset	Intel® C612Chipset																
Graphics ⁶ Options	Support for up to two double wide PCI Express® x16 Gen 2 or Gen 3 cards up to 600W [some restrictions apply]: <table border="0" style="width: 100%; margin-top: 5px;"> <tr> <td style="width: 25%;">High end 3D cards:</td> <td style="width: 25%;">Mid-range 3D cards:</td> <td style="width: 25%;">Entry 3D cards:</td> <td style="width: 25%;">Professional 2D cards:</td> </tr> <tr> <td>NVIDIA® Quadro® K6000</td> <td>AMD FirePro™ W5100</td> <td>NVIDIA Quadro K620</td> <td>NVIDIA Quadro NVS 310</td> </tr> <tr> <td>NVIDIA® Quadro® K5200</td> <td>NVIDIA Quadro K4200</td> <td>(VGA graphics connector – part of motherboard IDRAC)</td> <td>(not ISV certified) (VGA graphics connector – part of motherboard IDRAC)</td> </tr> <tr> <td>Nvidia GRID K2(A)</td> <td>NVIDIA Quadro K2200</td> <td></td> <td></td> </tr> </table>	High end 3D cards:	Mid-range 3D cards:	Entry 3D cards:	Professional 2D cards:	NVIDIA® Quadro® K6000	AMD FirePro™ W5100	NVIDIA Quadro K620	NVIDIA Quadro NVS 310	NVIDIA® Quadro® K5200	NVIDIA Quadro K4200	(VGA graphics connector – part of motherboard IDRAC)	(not ISV certified) (VGA graphics connector – part of motherboard IDRAC)	Nvidia GRID K2(A)	NVIDIA Quadro K2200		
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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) 																
WS virtualization	Workstation virtualization for up to four users via GPU pass-through & one to many with Grid K2(A) with certified hypervisors																
Storage Options	Up to eight 2.5" SATA or 2.5" SAS drives: <table border="0" style="width: 100%; margin-top: 5px;"> <tr> <td style="width: 16.6%;">SATA 7200RPM</td> <td style="width: 16.6%;">SAS 10K RPM</td> <td style="width: 16.6%;">SAS 15k RPM</td> <td style="width: 16.6%;">SATA SSD</td> <td style="width: 16.6%;">SAS SSD</td> <td style="width: 16.6%;">PCIe SSD Micron P420m¹⁰</td> </tr> <tr> <td>Up to 1.0TB¹⁰</td> <td>up to 1.2TB</td> <td>Up to 600GB</td> <td>Up to 512GB</td> <td>400GB</td> <td>700GB/1.4TB</td> </tr> </table>	SATA 7200RPM	SAS 10K RPM	SAS 15k RPM	SATA SSD	SAS SSD	PCIe SSD Micron P420m ¹⁰	Up to 1.0TB ¹⁰	up to 1.2TB	Up to 600GB	Up to 512GB	400GB	700GB/1.4TB				
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Storage Controller	Integrated: 2 X Intel AHCI 6Gb/s SATA controllers with 4 ports each. (Supports software RAID 0, 1,5,10 across 4 ports on 1 st controller only at launch) Optional: PERC 9 H330 12Gb/s SATA/SAS controller supports software RAID 0,1,5,10 (uses Mini-PERC slot on MB) PERC 9 H730P 12Gb/s SATA/SAS controller supports hardware RAID 0,1,5,10 with 1GB cache (Mini-PERC card)																
Add-in cards	<ul style="list-style-type: none"> • Serial port PCIe card, 1 port • 1394a/b PCIe card, 3 ports - 1x 1394a, 2x 1394b 																
Communications	Base - Intel I350 QP, 4 port Intel 1Gb/s NIC (network daughter card) Intel Remote Wake UP, PXE and Jumbo frames support Optional –replaces base - Intel X540 QP 2 port Intel 10GbE & 2 port 1Gb/s NIC (network daughter card) 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 																
Manageability	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)																
Ports	Front – 2 USB 2.0, 1 system ID button/LED; Internal – 1 USB 2.0; Rear- 2 USB 3.0, 1 serial, 4 RJ45 with either NIC option, 1 system ID button/LED																
Dimensions	HxWxD: 3.41" x 17.0" x 28.37" (29.78" with bezel); 86.8mm x 434.0mm x 720.8mm (756.5mm with bezel)																
Bays, chassis, ports	Bays: Eight external 2.5" bays; one external 5.25" slimline optical drive bay; Slots: Up to seven PCIe full-length Gen 3 slots with two CPUs in 3 riser cards, max 2 double width x16 cards <ul style="list-style-type: none"> • One CPU – 3 X x16 (wired as x8) slots (default) or alternative - 1 X x16 & 1 X x16 (wired as x8) slots • Two CPUs - 1 X x16, 3 X x16 (wired as x8), 3 low profile x8 (default) or alternative - 2 x16, 3 low profile x8 Power Supply options: One or two, redundant, hot-pluggable, 90% efficient, power supplies: 1100W																
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 1.2 (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 advanced 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 offers premium support from expert technicians and 24x7 global availability ⁷ . 4 & 5 year options ³																
Configuration Svcs. ³	Factory Image load. BIOS Customization. Hardware Customization, Asset Tagging and Reporting																



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Dell service & support. We're here to help.

Choose Dell's premium support service, Dell ProSupport, for 24/7 direct telephone access to advanced-level technicians based in your region. Whether you have one office or hundreds around the world, protect your investments with this simple yet flexible approach.

Dell software & peripherals. Simply do more.

Dell software and peripherals can help you do more with your Precision system. From award-winning Dell monitors and stands, to the right keyboard and mouse whether you're in the office or on the go, to software solutions from hand-picked partners, get all the best—all in one place, matched to your unique needs. Backed with world-class services and support Dell software and peripherals are foolproof investments that ensure you get the most out of your Precision workstation.

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/servicedescriptions

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 Warranty 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

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