



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-tomany (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 1TB6,10 of 2133MHz DDR4 quadchannel 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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Processor Options One or two: Intel® Xeam® processors 55-2600 v3 family with up to eighteen cores ¹⁰ per processor and intel Advanced Vector Extensions. Intel Trusted Execution Technology. Operating System Options • Windows® 61 Professional 64-Bit • Red Hadd Kimephase Linux VP/0 ¹⁴ technology. Memory Options • Owndows® 61 Professional 64-Bit • Red Hadd Kimephase Linux VP/0 ¹⁴ technology. Memory Options • Quad channel Up to 178-IP 2133 MHz DDR4 ECC RDIMM memory (32GB RDIMM): 16 DIMM slots (8/ processor 4) Memory Options Outpact Channel Up to 178-IP 2133 MHz DDR4 ECC RDIMM memory (32GB RDIMM): 16 DIMM slots (8/ processor 4) Miner Society Miner Society Professional Cards: NUDIA Quadro K5000 Professional Cards: NUDIA Quadro K5000 GPU GPGPU MCC Compute • One or two MUDIX Testel K80 K20C Computing Processors (GPGPU) Professional Cards: • NUDIA Quadro K5000 Mine 3120 AC Coprocessor (S & Pin Select regions) • One or two MUDIX Testel K80 K20C Computing Processors (GPGPU) • Nortal Acquadro K5000 Mine 3120 AC Coprocessor (S & Pin Select regions) • Ore or two MUDIX Testel K80 K20C Computing Processors (GPGPU) Mine 3120 C Coprocessor (S & Pin Select regions) • Nortal Acquadro K5000 • Optional • Differ 100 ACQUAD (ACQUAD K520) Storage Controler • Ore or two MUDIX Testel K80 K20C Computing Processors (GPGPU) • Noretal Acquadro K5000 P 2 for testal varian 20 ACQUAD	Feature	Technical Specification
System Options • Red Hat® Enterprise Linux® WS 7.0 Hypervisors • ViMware ESXi • Citrix XenServer Memory Options Quad channet: Up to ITB ^{4/9} 2133 MHz DDR4 ECC RDIMM memory (32GB RDIMM); 16 DIMM slots (8/ processor 9) Chipset Intel® CE2Chipset Entry 3D cards: Multi-ange 3D cards: FMUIDA Quadro NK 300 WDIDA® Quadro® KS00 MUDIA Quadro K200 NVDIDA Quadro NK 300 MUDIA Quadro K200 WVDIDA® Quadro® KS00 NVDIDA Quadro K200 NVDIDA Quadro NK 300 MUDIA Quadro K200 GPU GPCPU • One or two NVDIDA Testa® K20C Computing Processors (GPGPU) • Intel 3120A Coprocessor (S & P in select regions) Multi Acquadro NK 310 Virtualization • One or two NVDIDA Testa® K20C Computing Processors (GPGPU) • Intel 3120A Coprocessor (S & P in select regions) Virtualization • One or two NVDIDA Testa® K20C Computing Processors (GPGPU) • Intel 3120A Coprocessor (S & P in select regions) Storage Options Up to IOTB ³⁰ up to IDTB ³⁰ Quadro MX 500 Virtualization • One row NVDIDA Testa® K315k RPM SATA 52D SAS 52D PCle S5D Micron P420m ³⁰ Up to IOTB ³⁰ up to IDTB ³⁰ up to IDTB ³⁰ Quadro MX 500 RPM SATA 52D SAS 52D <	Processor Options	Advanced Vector Extensions, Intel Trusted Execution Technology, Intel AES New instructions, Optimized Intel
Hypervisors • VMware ESX • Clinx XenServer Memory Options Quad channel: Up to TB ^{EVD} 2133 MHz DDR4 ECC RDIMM memory (32GB RDIMM); 16 DIMM slots (8/ processor®) Chipset Intel® C612Chipset Graphics® Options Support for up to two double wide PCI Express® xl6 Gen 2 or Gen 3 cards up to 600W [some restrictions apply. WIDIA@ Quadro K6200 NVIDIA@ Quadro K6200 NVIDIA@ Quadro K520 NVIDIA@ Quadro K200 NVIDIA@ Quadro K200 NVIDIA@ Quadro K200 WS virtualization One or two NVIDIA Testa® K200C Computing Processors (GPCPU) Intel 3120A Coprocessor (S & F in select regions) WS virtualization Compute WS virtualization for up to four users via GPU pass-through & one to many with Grid K2(A) with certified typervicors VB virtualization Storage Options SATA 2200RPM SATA Ar2 5 SAS drives: SATA 2200RPM SAS IOK RPM SAS ISK RPM SATA 2200RPM SAS IOK RPM SAS ISK RPM SATA 2200RPM SAS IOK RPM SAS ISK RPM Sata Storage Controller SATA 520 SAS SSD PCIe SSD Micron P420m ³⁰ Dip to 1220/s SATA/SAS controller supports each. (Supports software RAID 0.15.10 acress 4 ports on 1° controller only at launch Sata SSD PCIe SSD Micron P420m ³⁰ Dip to 1220/s SATA/SAS controller supports software RAID 0.15.10 with 1G8 cache (Mini-PERC slot on MB) PERC 91 H330 1220/s SATA/SAS controller supports software RAID 0.15.10 with 1G8 cache (Mini-PERC slot on MB) PERC 91 H330 1220/s SATA/SAS controller supports software RAID 0.15.10 with 1G8 cache (Mini-PERC slot on MB) PERC 91 H330 1220/s SATA		Windows® 8.1 Professional 64-Bit Genuine Windows® 7 Professional 64-Bit
processor® Processor® Chipset Support for up to two double wide PCI Express® x16 Gen 2 or Gen 3 cards up to 600W Isome restrictions apply. High end 3D cards: NVIDIA@ Quadro K200 NVIDIA@ Quadro		VMware ESXi Citrix XenServer
Chipset Intel® C612Chipset Graphics ⁶ Options Support for up to two double wide PCI Express® x16 Gen 2 or Gan 3 cards up to 600W [some restrictions apply: NVDIA® Quadro K5200 Professional 2D cards: NVDIA® Quadro K5200 Professional 2D cards: NVDIA@ Quadro K5200 Professional 2D cards: NVDIA@ Quadro K5200 NVDIA@ Quadro K520 NVDIA@ Quadro K	Memory Options	
apply: High end 3D cards: Mid-range 3D cards: Entry 3D cards: Professional 2D cards: NVIDIA@ Quadro@ K6000 NVIDIA@ Quadro@ K6000 NVIDIA@ Quadro@ K2000 NVIDIA@ Quadro@ K2000 GPU GPGPU • One or two NVIDIA Tesia@ K20C Computing Processors (GPGPU) • Intel 3120A Coprocessor (3 & P in select regions) WS virtualization Workstation virtualization for up to foru users via GPU pass-through & one to many with Grid K2(A) with cartified hypervisors Storage Options Storage Controller Up to eight 2.5' SAT for 2.5' SAS drives: SATA 7200RPM SAT SIS MRM SATA SSD SAS SSD PCIe SSD Micron P420m ¹⁰ Storage Controller Integrated: up to eight 2.5' SAT or 2.5' SAS drives: SATA 7200RPM SAT SIS MRM SATA SSD SAS SSD PCIe SSD Micron P420m ¹⁰ Vol to 10TB variable up to eight 2.5' SAT or 2.5' SAS drives: SATA 7500 F20/S 34TA/SAS controller supports each (Supports Satura RAID 0, 1.5,10) (uses Mini-PERC Sist on MB) Add-in cards • Serial port PCIe card, 1 port • Serial port PCIe card, 3 ports - 1 st 1394a, 2x 1394a PCIe SD/ NiC Instrumer Adaption Fames support 11 Remote Access • Ferad cub ColPM PCIe card, 1 port • Ferad cub ColPM PCIe card, 1 port • Ferad cub ColPM PCIe card, 1 port • Teradici PCOIPM PCIe card, 1 port • Teradici PCOIPM PCIE card	Chipset	
High end 3D cards: Nidi-range 3D cards: Professional 2D cards: NVIDIA Quadro MK S200 NVIDIA Quadro K4200 NVIDIA Quadro K5200 Of Qi GPQU - One or two NVIDIA Tesla® K200C NVIDIA Quadro K6200 MCC Compute - One or two NVIDIA Tesla® K200C NVIDIA Quadro K6200 MS Nutrualization - One or two NVIDIA Tesla® K200C Computing Processors (GPGPU MCC Compute - One or two NVIDIA Tesla® K200C Computing Processors (GPGPU WS virtualization - One or two NVIDIA Tesla® K200C Computing Processors (GPGPU WS virtualization - One or two NVIDIA Tesla® K200C Computing Processors (GPGPU WS virtualization - One or two NVIDIA Tesla® K200C SAS SSD PCIe SSD Micro P420m ¹⁰ Storage Option Up to eight 2.5' SATA or 2.5' SAS drives: SATA 5200RPM SAS SSD PCIe SSD Micro P420m ¹⁰ Storage Controller Integrated: - Doto PC or 1330 12Cb/s SATA/SAS controller supports Software RAID 0.1.5.10 with 1GB cache (Mini -PERC or 1330 12Cb/s SATA/SAS controller supports Add-in cards - Serial port PCIe card. 1 port - IS94A/AB PCIe card. 3 ports - 1x 13948, 2x 1394b Optional Communications - Serial port PCIe card. 1 port - IS94A/AB PCIe card. 3 port + 2 IS 3 AS SM Rev Optional 11 Remote Access - Intel ISDS QP, 4 port Intel IGD/S NIC (network Opti	Graphics ⁶ Options	
MCC Compute • Intel 3120A Coprocessor (S & P in select regions) WS virtualization Workstation virtualization for up to for up to for up users via GPU pass-through & one to many with Grid K2(A) with certified hypervisors Storage Options SATA 200RPM SAS 15K RPM SAS 15K RPM SATA SSD PCIe SSD Micron P420m ¹⁰ Storage Controller SATA 700RPM SAS 15K RPM SAS 15K RPM SAS 15K RPM SATA SSD PCIe SSD Micron P420m ¹⁰ Storage Controller Integrated: Ditto 1.5,10 across 4 Optional PERC 9 H330 12Gb/s SATA/SAS controller supports Add-in cards • Serial port PCIe card, 1 port • Safa/a/b PCie card, 3 ports - 1x 1394a, 2x 1394b Optional -replaces base - Intel X540 QP 2 port Intel Gb/s NLC (network Optional -replaces base - Intel X540 QP 2 port Intel Gb/s NLC (network and unbo frames support 1:1 Remote Access • Teradic IPCOIP® Workstation Access Software Remote Wake UP, PXE and Jumbo frames support Remote Wake UP, PXE and Jumbo frames support 1:2 Remote Access • Teradic IPCOIP® Workstation Access Software Nortical software RAID 0.1.5.10 with IGB cards (NIL) Software RAID 0.1.5.10 with IGB cards (NIL) 0 points • Teradic IPCOIP® Workstation Access Software PORC 91/201 Cb/s SATA/SAD COP 2 port Intel Gb/s SAD 2 PCOIPM PCIe Remote access inst cards for Wyse P25/P45 zero client & soft clients		High end 3D cards:Mid-range 3D cards:Entry 3D cards:Professional 2D cards:NVIDIA® Quadro® K6000AMD FirePro™ W5100NVIDIA Quadro K620NVIDIA Quadro NVS 310NVIDIA® Quadro® K5200NVIDIA Quadro K4200(VGA graphics connector –(not ISV certified) (VGANvidia GRID K2(A)NVIDIA Quadro K2200part of motherboardgraphics connector – part
Storage Options Certified typervisors Storage Options Up to eight 2.5° SAS drives: Storage Controller SATA 7200RPM Storage Controller 2 Intel AFCI 6Gb/s SATA controllers with 4 ports each. (Supports software RAID 0, 15,10 across 4 ports on 1 st controller only at launch Optional Add-in cards - Serial port PCle card. 1 port - Serial port PCle card. 1 port - Starda / Dot 11350 - Serial opt PCle card. 1 port - Serial opt PCle card. 1 port - 113 Remote Access - Serial opt PCle card. 1 port - Serial opt PCle card. 1 port - 114 Remote Access - Serial opt PCle card. 1 port - Serial opt PCle card. 3 ports - 1x 1394a, 2x 1394b Communications - Serial opt PCle card. 1 port - Serial opt PCle PCle PCle Remote PXE on TGb/s NIC (network daughter card) 1:1 Remote Access - Tera2 dual & quad display PColP™ PCle Remote access host cards for Wyse P25/P45 zero client & soft clients Options - Tera2 dual & quad display PColP™ PCle Remote access host cards for Wyse P25/P45 zero Client & soft clients Options - Tera2 dual & quad display PColP™ PCle Remote access host cards for Wyse P25/P45 zero Client & soft clients Options - Tera2 dual & soft with either Nic Option.1 system ID button/LED Manageability Dell OpenManage™ portfolio options that include Dell's exclusive Integrat		
SATA 7200RPMSAS 10K RPMSAS 15k RPMSAT A SSDSAT SSDPCIe SSD Micron P420m ¹⁰ Storage ControllerUp to 1.2TBUp to 600BUp to 512GB400CB700CB/1.4TBStorage Controller2X 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 launchOptional PERC 9 H330 12Gb/s SATA/SAS controller supports software RAID 0, 1,5,10 across 4Add-in cards- Serial port PCIe card, 1 port - 1394a/b PCIe card, 3 ports - 1x 1394a, 2x 1394bCommunicationsBase - Intel (350 QP, 4 port Intel 1Gb/s NIC (network rames support)1:1 Remote Access Options- Teradici PCOIP® VPCIe and 3 ports - 1x 1394a, 2x 1394bCommunications- Serial port PCIe card, 3 ports - 1x 1394a, 2x 1394bBase - Intel (350 QP, 4 port Intel 1Gb/s NIC (network) rames supportOptional -replaces base - Intel X540 QP 2 port Intel daughter card) Intel Remote Wake UP, PXE and Jumbo 10D6E & 2 port 1Gb/s NIC (network daughter card) Remote Wake UP, PXE and Jumbo 10D6E & 2 port 1Gb/s NIC (network daughter card) Remote Wake UP, PXE and Jumbo 100EE & 2 port 1Gb/s NIC (network daughter card) Remote Wake UP, PXE and Jumbo 100EE & 2 port 1Gb/s NIC (network daughter card) Remote Wake UP, PXE and Jumbo 100EE & 2 port 1Gb/s NIC (network daughter card) Remote Wake UP, PXE and Jumbo 100EE & 2 port 1Gb/s NIC (network daughter card) Remote Wake UP, PXE and Jumbo 100EE & 2 port 1Gb/s NIC (network daughter card) Remote Wake UP, PXE and Jumbo 100EE & 2 port 1Gb/s NIC (network daughter card) Remote Wake UP, PXE and Jumbo 100EE & 2 port 1Gb/s NIC (network daughter card) Remote Wake UP, PXE and Jumbo 100EE & 2 port 1Gb/s NIC (network daughter card)Ports-		certified hypervisors
Storage Controller Integrated: 2 X Intel AHCI 6 Gb/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 H33D 12Gb/s SATA/SAS controller supports software RAID 0,1,5,10 (uses Mini-PERC slot on MB) PERC 9 H33D 12Gb/s SATA/SAS controller supports hardware RAID 0,1,5,10 with 1GB cache (Mini-PERC card) Add-in cards • Serial port PCle card, 1 port • 1394a/b PCle card, 3 ports - 1x 1394a, 2x 1394b Communications Base - Intel 1350 QP, 4 port Intel 1Gb/s NIC (network uppter card) Intel Remote Wake UP, PXE and Jumbo 10GbE & 2 port 1Gb/s NIC (network daughter card) frames support 1:1 Remote Access • Teradici PCoIP® Workstation Access Software 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 serial, 4 Al45 with either NIC option, 1 system ID button/LED HxWxD: 3.41° x17.0° 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; Sim-line tray load options: DVD -ROM; DVD+/-RW Monitors Dell UltraSharp series - Award-winning high-performance monitors with PremieColor (on select models) and utrawide viewing, from 21.5° -30°. Dell Professional series monitors available from 17°-24°. Bays: Eight external 2.5° bays;	Storage Options	SATA 7200RPM SAS 10K RPM SAS 15K RPM SATA SSD SAS SSD PCIe SSD Micron P420m ¹⁰
Add-in cards• Serial port PCle card, 1 port • 1394a/b PCle card, 3 ports - 1x 1394a, 2x 1394bCommunicationsBase - Intel 1550 QP, 4 port Intel IGb/s NIC (network Optional -replaces base - Intel X540 QP 2 port Intel daughter card) Intel Remote Wake UP, PXE and Jumbo 10GbE & 2 port 1Gb/s NIC (network daughter card) frames support1:1 Remote Access• Tera2 dual & quad display PCoIP™ PCIe Remote access host cards for Wyse P25/P45 zero client & soft clients • Teradici PCoIP® Workstation Access SoftwareManageabilityDell OpenManage™ portfolio options that include Dell's exclusive Integrated Dell Remote Access Controller (IDRAC) with Lifecycle Controller - includes one VGA graphics connection, Intel® Pro™ Technology's advanced management features (optional, requires Intel WiFi® Link WLAN)PortsFront - 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 Bays; chassis, portsBays; chassis, portsBays: Eight external 2.5" bays; one external 5.25" slimline optical drive bay; Slots: Up to seven PCle full-length Gen 3 slots with two CPUs in 3 riser cards, max 2 double width x16 cards • Ore 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, X16 X x16 wired as x8) slots • Orwer Supply options: One or two, redundant, hot-pluggable, 90% efficient, power supplies: 1100WMonitorsDell UtraSharp 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 DriveSim-line tray load options: DVD-ROM; DVD+/-RWSecurity OptionsTrusted Platform Module 1.2 (TPM 1.2); Intrusion sw	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 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
CommunicationsBase - Intel 1350 QP, 4 port Intel 1Gb/s NIC (network daughter card) Intel Remote Wake UP, PXE and Jumbo 10GbE & 2 port 1Gb/s NIC (network daughter card) Remote Wake UP, PXE and Jumbo 10GbE & 2 port 1Gb/s NIC (network daughter card) Remote Wake UP, PXE and Jumbo 10GbE & 2 port 1Gb/s NIC (network daughter card)1:1 Remote Access• Tera2 dual & quad display PCoIP™ PCIe Remote access host cards for Wyse P25/P45 zero client & soft clients • Teradici PCoIP® Workstation Access SoftwareManageabilityDell 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)PortsFront - 2 USB 2.0, 1 system ID button/LED; Internal - 1 USB 2.0; Rear - 2 USB 3.0, 1 system ID button/LED; Internal - 1 USB 2.0; Bays; chassis, portsBays, chassis, portsBays: 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 • One CPU - 1 X x16, 3 X x16 (wired as x8) slots (default) or alternative - 1 X x16 (wired as x8) slots • Two CPUs - 1 X x16, 3 X x16 (wired as x8) slow profile x8 (default) or alternative - 2 x16, 3 low profile x8 Power Supply options: One or two, redundant, hot-pluggable, 90% efficient, power supplies: 1100WMonitorsDell 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 DriveSim-line tray load options: DVD-ROM; DVD+/-RWSecurity OptionsTrusted Platform Module 1.2 (TPM 1.2	Add-in cards	• Serial port PCIe card, 1 port
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 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 PCle full-length Gen 3 slots with two CPUs in 3 riser cards, max 2 double width x16 cards • 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	1:1 Remote Access	Base - Intel I350 QP, 4 port Intel 1Gb/s NIC (network daughter card) Optional -replaces base - Intel X540 QP 2 port Intel 10GbE & 2 port 1Gb/s NIC (network daughter card) frames support Intel Remote Wake UP, PXE and Jumbo 10GbE & 2 port 1Gb/s NIC (network daughter card) rames support Remote Wake UP, PXE and Jumbo 10GbE & 2 port 1Gb/s NIC (network daughter card) • Tera2 dual & quad display PCoIP™ PCIe Remote access host cards for Wyse P25/P45 zero client & soft clients
 (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 R145 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 PCle full-length Gen 3 slots with two CPUs in 3 riser cards, max 2 double width x16 cards • 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 & Regulatory Model: P29F, Regulatory Type: P29F001, EPEAT Registered. For specific country participation and rating, please see www.epeat.net. BFR/PVC free⁸ Warranty & Support Limited Hardware Warranty¹⁰; Standard 3-year On Site Service after Remote Diagnosis⁷. Optional 3 year Dell ProSupport offers premium support		
Rear- 2 USB 3.0, 1 serial, 4 RJ45 with either NIC option, 1 system ID button/LEDDimensionsHxWxD: 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, portsBays: Eight external 2.5" bays; one external 5.25" slimline optical drive bay; Slots: Up to seven PCle full-length Gen 3 slots with two CPUs in 3 riser cards, max 2 double width x16 cards • 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: 1100WMonitorsDell 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 DriveSlim-line tray load options: DVD-ROM; DVD+/-RWSecurity OptionsTrusted 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 protectionRegulatory & EnvironmentalRegulatory Model: P29F, Regulatory Type: P29F001, EPEAT Registered. For specific country participation and rating, please see www.epeat.net. BFR/PVC free ⁸ Warranty & SupportLimited 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		(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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	Services	ProSupport offers premium support from expert technicians and 24x7 global availability ⁷ . 4 & 5 year options ³



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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.

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^{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

GB means 1 billion bytes and TB equals 1 trillion bytes; actual capacity varies with preloaded material and operating environment and will be less.
 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

¹⁰ Euture availability