

PRECISION

7960 Tower

FEATURE TECHNICAL SPECIFICATION

MODEL NUMBER	Precision 7960
CHIPSET	Intel W790
PROCESSOR OPTIONS¹	<p>Intel® Xeon® w9-3495X (105MB Cache, 56 cores, 112 threads, 1.9GHz to 4.8GHz Turbo 350W)</p> <p>Intel® Xeon® w9-3475X (82.5MB Cache, 36 cores, 72 threads, 2.2GHz to 4.8GHz Turbo 300W)</p> <p>Intel® Xeon® w7-3465X (75MB Cache, 28 cores, 56 threads, 2.5GHz to 4.8GHz Turbo 300W)</p> <p>Intel® Xeon® w7-3455 (67.5MB Cache, 24 cores, 48 threads, 2.5GHz to 4.8GHz Turbo 270W)</p> <p>Intel® Xeon® w7-3445 (52.5MB Cache, 20 cores, 40 threads, 2.6GHz to 4.8GHz Turbo 270W)</p> <p>Intel® Xeon® w5-3435X (45MB Cache, 16 cores, 32 threads, 3.1GHz to 4.7GHz Turbo 270W)</p> <p>Intel® Xeon® w5-3425 (30MB Cache, 12 cores, 24 threads, 3.2GHz to 4.6GHz Turbo 270W)</p> <p>Intel® Xeon® w5-3433 (45MB Cache, 16 cores, 32 threads 2.0GHz to 4.2GHz Turbo 220W)</p> <p>Intel® Xeon® w5-3423 (30MB Cache, 12 cores, 24 threads, 2.1GHz to 4.2GHz Turbo 220W)</p>
OPERATING SYSTEM¹	<p>Windows 11 for Workstations</p> <p>Windows 11 Downgrade to Windows 10 22H2</p> <p>Ubuntu® 22.04, 64-bit</p> <p>Red Hat® Linux® 8.6 Enterprise WS</p>
MEMORY OPTIONS^{1,2,3}	<p>16GB, 1 x 16GB, DDR5, 4800MHz, ECC</p> <p>32GB, 1 x 32GB, DDR5, 4800MHz, ECC</p> <p>32GB, 2 x 16GB, DDR5, 4800MHz, ECC</p> <p>64GB, 1 x 64GB, DDR5, 4800MHz, ECC</p> <p>64GB, 2 x 32GB, DDR5, 4800MHz, ECC</p> <p>64GB, 4 x 16GB, DDR5, 4800MHz, ECC</p> <p>96GB, 6 x 16GB, DDR5, 4800MHz, ECC</p> <p>128GB, 1 x 128GB, DDR5, 4800MHz, ECC</p> <p>128GB, 2 x 64GB, DDR5, 4800MHz, ECC</p> <p>128GB, 4 x 32GB, DDR5, 4800MHz, ECC</p> <p>128GB, 8 x 16GB, DDR5, 4800MHz, ECC</p> <p>192GB, 6 x 32GB, DDR5, 4800MHz, ECC</p> <p>192GB, 12 x 16GB, DDR5, 4800MHz, ECC</p> <p>256GB, 1 x 256GB, DDR5, 4800MHz, ECC</p> <p>256GB, 2 x 128GB, DDR5, 4800MHz, ECC</p> <p>256GB, 4 x 64GB, DDR5, 4800MHz, ECC</p> <p>256GB, 16 x 16GB, DDR5, 4800MHz, ECC</p> <p>384GB, 6 x 64GB, DDR5, 4800MHz, ECC</p> <p>384GB, 12 x 32GB, DDR5, 4800MHz, ECC</p> <p>512GB, 2 x 256GB, DDR5, 4800MHz, ECC</p> <p>512GB, 4 x 128GB, DDR5, 4800MHz, ECC</p> <p>512GB, 8 x 64GB, DDR5, 4800MHz, ECC</p> <p>512GB, 16 x 32GB, DDR5, 4800MHz, ECC</p> <p>768GB, 6 x 128GB, DDR5, 4800MHz, ECC</p> <p>768GB, 12 x 64GB, DDR5, 4800MHz, ECC</p> <p>1 TB, 4 x 256GB, DDR5, 4800MHz, ECC</p> <p>1 TB, 8 x 128GB, DDR5, 4800MHz, ECC</p> <p>1 TB, 16 x 64GB, DDR5, 4800MHz, ECC</p> <p>1.5 TB, 6 x 256GB, DDR5, 4800MHz, ECC</p> <p>1.5 TB, 12 x 128GB, DDR5, 4800MHz, ECC</p> <p>2 TB, 8 x 256GB, DDR5, 4800MHz, ECC</p> <p>2 TB, 16 x 128GB, DDR5, 4800MHz, ECC</p> <p>3 TB, 12 x 256GB, DDR5, 4800MHz, ECC</p> <p>4 TB, 16 x 256GB, DDR5, 4800MHz, ECC</p>
BOOT DRIVES^{1,5}	<p>16 DIMM slots across 8 Memory Channels</p> <p>Memory clocks down to 4400MHz in configurations with 2 DIMMs per channel</p> <p>128GB and 256GB RDIMMs are available post launch</p> <p>M.2 2280, 512GB, PCIe NVMe Gen4 x4, SSD, Class 40</p> <p>M.2 2280, 1TB, PCIe NVMe Gen4 x4, SSD, Class 40</p> <p>M.2 2280, 2TB, PCIe NVMe Gen4 x4, SSD, Class 40</p> <p>M.2 2280, 4TB, PCIe NVMe Gen4 x4, SSD, Class 40</p>
DRIVES^{1,5}	<p>M.2 2280, 512GB, PCIe NVMe Gen4 x4, SSD, Class 40</p> <p>M.2 2280, 1TB, PCIe NVMe Gen4 x4, SSD, Class 40</p> <p>M.2 2280, 2TB, PCIe NVMe Gen4 x4, SSD, Class 40</p> <p>M.2 2280, 4TB, PCIe NVMe Gen4 x4, SSD, Class 40</p> <p>2.5-inch, 600GB, 15,000RPM, SAS, Enterprise HDD</p> <p>2.5-inch, 1.2TB, 10,000RPM, SAS, Enterprise HDD</p> <p>2.5-inch, 2.4TB, 10,000RPM, SAS, Enterprise HDD</p> <p>3.5-inch, 2TB, 7200RPM, SATA, Enterprise HDD</p> <p>3.5-inch, 4TB, 7200RPM, SATA, Enterprise HDD</p> <p>3.5-inch, 8TB, 7200RPM, SATA, Enterprise HDD</p> <p>3.5-inch, 12TB, 7200RPM, SATA, Enterprise HDD</p> <p>2.5-inch, 1.92TB, MU, SATA, Enterprise SSD</p> <p>M.2 2280, 512GB, PCIe NVMe Gen4 x4, SSD, Class 40</p> <p>M.2 2280, 1TB, PCIe NVMe Gen4 x4, SSD, Class 40</p> <p>M.2 2280, 2TB, PCIe NVMe Gen4 x4, SSD, Class 40</p> <p>M.2 2280, 4TB, PCIe NVMe Gen4 x4, SSD, Class 40</p>

FEATURE TECHNICAL SPECIFICATION

STORAGE CONTROLLERS	<p>Integrated: Intel chipset 6Gb/s SATA controller supporting up to 8 ports for SATA HDD/SSD. 1 port for optical drive.</p> <p>Intel vROC SW SATA RAID 0,1,5,10 supported across up to 8 SATA ports</p> <p>Integrated Intel chipset controller supports up to 8 M.2 NVMe drives in 4 externally-facing FlexBays or up to 8 M.2 NVMe drives in 2 Dell Ultra-Speed Drive Quad x16 PCIe cards.</p> <p>Optional Intel vROC Standard SW NVMe RAID 0,1,10 option - (motherboard activation key) for M.2 NVMe PCIe SSDs in FlexBays or on Ultra-Speed Drive Quad x16 or Duo x8 card (0,1).</p> <p>Maximum 4 drives per RAIDset. Supports 2 FlexBay NVMe RAIDsets - up to 4 drives in front and up to 4 drives in rear Flexbays.</p> <p>Optional Intel vROC Premium SW NVMe RAID 0,1,5,10 option adds RAID 5</p> <p>Optional MegaRAID 9660* SATA/SAS HW RAID controller. RAID 0,1,5,10. Supports up to 10 SATA/SAS drives or up to 4 M.2 NVMe drives in front FlexBays. * Available post launch</p> <p>Optional MegaRAID 9540 SATA/SAS RAID controller. RAID 0,1,10. Supports up to 8 SATA/SAS drives</p>
GRAPHICS	<p>NVIDIA RTX™ 6000 ADA 48GB GDDR6</p> <p>NVIDIA RTX™ A6000, 48GB GDDR6</p> <p>NVIDIA RTX™ A5500, 24GB GDDR6</p> <p>NVIDIA RTX™ A4500, 20GB GDDR6</p> <p>NVIDIA RTX™ A4000, 16GB GDDR6</p> <p>NVIDIA RTX™ A2000, 12GB GDDR6</p> <p>NVIDIA T1000, 4GB GDDR6</p> <p>NVIDIA T400, 2GB GDDR6</p> <p>AMD Radeon™ Pro W6800, 32GB GDDR6</p> <p>AMD Radeon™ Pro W6600, 8GB GDDR6</p> <p>AMD Radeon™ Pro W6400, 4GB GDDR6</p>
CASE COLOR	Dell Standard Black
PRODUCTIVITY SOFTWARE¹	<p>Microsoft Office Home and Business 2021</p> <p>Microsoft Office Professional 2021 - Commercial</p> <p>Dell Optimizer for Precision</p>
SECURITY SOFTWARE	<p>McAfee® Small Business Security 30-Day Free Trial</p> <p>McAfee® Small Business Security 12-month subscription</p> <p>McAfee® Small Business Security 36 month subscription</p> <p>Dell Encryption Personal</p> <p>Dell Encryption Enterprise</p> <p>Dell Encryption External Media</p> <p>Dell BitLocker Manager</p> <p>Dell SafeGuard and Response VMW Carbonblack</p> <p>Endpoint Standard</p>
WARRANTY^{9,10}	<p>3-year Basic warranty with hardware service with on-site/in-home service after remote diagnosis</p> <p>4-year Basic warranty with hardware service with on-site/in-home service after remote diagnosis</p> <p>5-year Basic warranty with hardware service with on-site/in-home service after remote diagnosis</p> <p>3-year ProSupport with Next Business Day on-site service</p> <p>4-year ProSupport with Next Business Day on-site service</p> <p>5-year ProSupport with Next Business Day on-site service</p> <p>3-year ProSupport Plus for Client with Next Business Day on-site service</p> <p>4-year ProSupport Plus for Client with Next Business Day on-site service</p> <p>5-year ProSupport Plus for Client with Next Business Day on-site service</p>
ACCIDENTAL DAMAGE SERVICES	<p>3-year Accidental Damage Service</p> <p>4-year Accidental Damage Service</p> <p>5-year Accidental Damage Service</p>
PORTS	<p>Front:</p> <p>2 USB 3.2 Gen 1 ports</p> <p>USB 3.2 Gen 2 Type-C port with PowerShare</p> <p>USB 3.2 Gen 2 Type-C port</p> <p>Universal audio port</p> <p>SD-card slot</p> <p>Rear:</p> <p>3 USB 3.2 Gen 2 Type-C ports</p> <p>2 USB 3.2 Gen 1 ports</p> <p>USB 3.2 Gen 1 port with Smart Power On</p> <p>RJ45 Ethernet port, 1GBE</p> <p>RJ45 Ethernet port, 10GBE</p> <p>Line-out port</p> <p>Serial port</p> <p>2 PS2 ports</p>
OPTICAL DRIVE	<p>8x DVD-ROM 9.5mm optical drive</p> <p>8x DVD+/-RW 9.5mm optical drive</p> <p>16x DVD+/-RW half-height optical drive</p>
SLOTS	<p>2 full-height Gen5 PCIe x16 slots</p> <p>2 full-height Gen4 PCIe x16 slots</p> <p>2 full-height Gen4 PCIe x8 slots</p> <p>2 full-height, half length Gen4 PCIe x8 slots wired as x4 electrically</p>
	<p>8 Externally facing (4 front, 4 rear) drive bays with optical drive configuration</p> <p>10 Externally facing (6 front, 4 rear) drive bays without optical drive configuration</p> <p>Up to 8 M.2 NVMe drives (4 in front, 4 in rear)</p>

PRECISION

7960 Tower

FEATURE TECHNICAL SPECIFICATION

DIMENSIONS

US

Height: 16.96in. (430.70mm) / 17.09in. (434.20mm) with runner feet
Width: 8.58in. (218.00mm)
Depth: 21.19in. (538.30mm) / 22.4in. (569.15mm) with lock structure

Weight: Maximum: 82.82lbs. (37.56kg) Typical: 52.50lbs. (23.81kg) Minimum: 46.39lbs. (21.04kg)

Rest of the world

Height: 430.70mm (16.96in.) / 434.20mm (17.09in.) with runner feet
Width: 218.00mm (8.58in.)
Depth: 538.30mm (21.19in.) / 569.15mm (22.4in.) with lock structure

Weight: Maximum: 37.56kg (82.82lbs.) Typical: 23.81kg (52.50lbs.) Minimum: 21.04kg (46.39lbs.)

AUDIO & SPEAKERS¹

Realtek ALC3246-CGT Internal Speakers

CHASSIS

Full-size tower - 19" Rack Mount Kit available (Takes 5U rack space)

WIRELESS

Qualcomm® WCN6856-DBS, 2x2 MIMO, 3571Mbps, 2.4GHz/5GHz/6GHz, Wi-Fi 6E (Wi-Fi 802.11ax), Bluetooth 5.2

POWER SUPPLIES

1100W (for AC input voltage of 108VAC - 180VAC) 1400W (input voltage 181VAC - 240VAC) –90% efficient (80PLUS Gold Certified).
1500W (for AC input voltage of 108VAC - 180VAC) 2200W (input voltage 181VAC - 240VAC) –90% efficient (80PLUS Platinum Certified). 1500W/2200W PSUs have C19 AC cord and require 20A circuit @115V or a 220V circuit
Externally accessible/removable/lockable

REGULATORY^{8,32}

Product Safety, EMC and Environmental Datasheets:

<https://www.dell.com/learn/sg/en/sgcorp1/product-info-datasheets-safety-emc-environmental>

Dell Regulatory Compliance Home Page:

<https://www.dell.com/learn/sg/en/sgcorp1/regulatory-compliance>

Dell and the Environment:

<https://www.dell.com/en-sg/dt/corporate/social-impact/advancing-sustainability/sustainable-supply-chain/environment.htm>

HARDWARE SECURITY

Kensington security-cable slot
Padlock loop
Chassis lock support - Coin locker
Chassis intrusion switch
Optional lockable bezels for externally-facing front and rear storage FlexBays
TPM 2.0 Discrete Hardware

RECOMMENDED ACCESSORIES

(SOLD SEPARATELY)

Mouse:

3Dconnexion SpaceMouse Wireless

Cables, Dongles, Adapters:

Dell Adapter - DisplayPort to HDMI 2.0 (4K)

Audio Headsets:

Dell Pro Wireless Headset - WL5022

Display:

Dell UltraSharp 27 Monitor - U2722D

Dell UltraSharp 32 HDR PremierColor Monitor - UP3221Q

Keyboards:

Dell Premier Multi-Device Wireless Keyboard and Mouse - KM7321W

Webcam:

Dell UltraSharp Webcam - WB7022

CONFIGURATION SERVICES

Factory image load
BIOS customization
Hardware customization
Asset Tagging and Reporting

ADD-IN CARDS

Intel® Ethernet Network Adapter X710GBE NIC Card

Intel® Ethernet Network Adapter i225 2.5GBE NIC Card

Thunderbolt™ 4 PCIe card

Dell Precision Ultra-Speed Drive Quad (x16) and Duo (x8) PCIe cards support M.2 NVMe drives with active cooling with up to 4 and 2 NVMe drives respectively

Broadcom MegaRAID 9540 SATA/SAS RAID controller

Broadcom MegaRAID 9660 * SATA/SAS HW RAID controller (also supports up to 4 M.2 NVMe drives in front FlexBays.) * Post launch

Qualcomm® WCN6856-DBS Wi-Fi 6E, Bluetooth 5.3 wireless LAN card

USB 3.1 PCIe card