

# Features & Technical Specifications

## PRECISION 3650 TOWER

Feature	Precision 3650 Tower Technical Specifications
Processor Options <sup>1</sup>	<p>10<sup>th</sup> Generation Intel® Core™ i3-10100, 6 MB Cache, 4 Core, 3.6 GHz to 4.3 GHz 65W TDP</p> <p>10<sup>th</sup> Generation Intel® Core™ i3-10105, 6 MB Cache, 4 Core, 3.7 GHz to 4.4 GHz, 65W TDP</p> <p>10<sup>th</sup> Generation Intel® Core™ i5-10505, 12 MB Cache, 6 Core, 3.2 GHz to 4.6 GHz 65W TDP</p> <p>10<sup>th</sup> Generation Intel® Core™ i5-10600, 12 MB Cache, 6 Core, 3.3 GHz to 4.8 GHz 65W TDP</p> <p>10<sup>th</sup> Generation Intel® Core™ i5-10600K, 12 MB Cache, 6 Core, 4.1 GHz to 4.8 GHz 125W TDP</p> <p>10<sup>th</sup> Generation Intel® Core™ i7-10700, 16 MB Cache, 8 Core, 2.9 GHz to 4.8 GHz 65W TDP</p> <p>10<sup>th</sup> Generation Intel® Core™ i7-10700K, 16 MB Cache, 8 Core, 3.8 GHz to 5.1 GHz 125W TDP</p> <p>10<sup>th</sup> Generation Intel® Core™ i9-10900, 20 MB Cache, 10 Core, 2.8 GHz to 5.2 GHz 65W TDP</p> <p>10<sup>th</sup> Generation Intel® Core™ i9-10900K, 20 MB Cache, 10 Core, 3.7 GHz to 5.3 GHz 125W TDP</p> <p>10<sup>th</sup> Generation Intel® Xeon® W-1250, 12 MB Cache, 6 Core, 3.3 GHz to 4.7 GHz 80W TDP</p> <p>10<sup>th</sup> Generation Intel® Xeon® W-1250P, 12 MB Cache, 6 Core, 4.1 GHz to 4.8 GHz 125W TDP</p> <p>10<sup>th</sup> Generation Intel® Xeon® W-1270, 16 MB Cache, 8 Core, 3.4 GHz to 5.0 GHz 80W TDP</p> <p>10<sup>th</sup> Generation Intel® Xeon® W-1270P, 16 MB Cache, 8 Core, 3.8 GHz to 5.1 GHz 125W TDP</p> <p>10<sup>th</sup> Generation Intel® Xeon® W-1290, 20 MB Cache, 10 Core, 3.2 GHz to 5.2 GHz 80W TDP</p> <p>10<sup>th</sup> Generation Intel® Xeon® W-1290P, 20 MB Cache, 10 Core, 3.7 GHz to 5.3 GHz 125W TDP</p> <p>11<sup>th</sup> Generation Intel® Core™ i5-11500, 12 MB Cache, 6 Core, 2.7 GHz to 4.6 GHz, 65W TDP</p> <p>11<sup>th</sup> Generation Intel® Core™ i5-11600, 12 MB Cache, 6 Core, 2.8 GHz to 4.8 GHz, 65W TDP</p> <p>11<sup>th</sup> Generation Intel® Core™ i5-11600K, 12 MB Cache, 6 Core, 3.9 GHz to 4.9 GHz, 125W TDP</p> <p>11<sup>th</sup> Generation Intel® Core™ i7-11700, (16 MB Cache, 8 Core, 2.5 GHz to 4.9 GHz, 65W TDP</p> <p>11<sup>th</sup> Generation Intel® Core™ i7-11700K, 16 MB Cache, 8 Core, 3.6 GHz to 5.0 GHz, 125W TDP</p> <p>11<sup>th</sup> Generation Intel® Core™ i9-11900, 16 MB Cache, 8 Core, 2.5 GHz to 5.2 GHz, 65W TDP</p> <p>11<sup>th</sup> Generation Intel® Core™ i9-11900K, 16 MB Cache, 8 Core, 3.5 GHz to 5.3 GHz, 125W TDP</p> <p>11<sup>th</sup> Generation Intel® Xeon® W-1350, 12 MB Cache, 6 Core, 3.3 GHz to 5.0 GHz, 80W TDP</p> <p>11<sup>th</sup> Generation Intel® Xeon® W-1350P, 12 MB Cache, 6 Core, 4.0 GHz to 5.1 GHz, 125W TDP</p> <p>11<sup>th</sup> Generation Intel® Xeon® W-1370, 16 MB Cache, 8 Core, 2.9 GHz to 5.1 GHz, 80W TDP</p> <p>11<sup>th</sup> Generation Intel® Xeon® W-1370P, 16 MB Cache, 8 Core, 3.6 GHz to 5.2 GHz, 125W TDP</p> <p>11<sup>th</sup> Generation Intel® Xeon® W-1390, 16 MB Cache, 8 Core, 2.8 GHz to 5.2 GHz, 80W TDP</p> <p>11<sup>th</sup> Generation Intel® Xeon® W-1390P, 16 MB Cache, 8 Core, 3.5 GHz to 5.3 GHz, 125W TDP</p>
Operating System Options <sup>2</sup>	<p>Windows® 10 Home (64-bit)</p> <p>Windows® 10 Professional (64-bit)</p> <p>Windows® 10 Professional (64-bit) National Academic</p> <p>Windows® CMIT Government Edition (V0-H)</p> <p>Windows® 10 Professional Workstation (64-bit) (for 6 or more cores)</p> <p>Windows® 10 IoT Enterprise LTSC</p> <p>Red Hat® Linux® 8.4</p> <p>Ubuntu® Linux® 20.04 LTS</p> <p>Kylin Linux® 10.1 (China only)</p>
Chipset	Intel® W580 chipset
Memory Options <sup>3</sup>	<p>4 DIMM slots (dual channel) Up to 128GB or up to 3200MHz Non-ECC &amp; ECC DDR4 Memory</p> <p>2 DIMMs per channel (2DPC) speed of 3200MHz is supported when channel is populated with the same DIMM part number and available on 11<sup>th</sup> gen processors only. Symmetrical configurations are required for 2DPC within one channel to achieve 3200MHz memory operating speed, otherwise memory speed may drop to 2666MHz or 2933MHz. There are no restrictions across channels. Please review Setup and Specifications or Owner's Manual document for more detailed explanation.</p>
Graphics Options <sup>3</sup>	<p>One PCI Express® x16 Gen 4 slot supporting graphics card up to 350W (Total power available for discrete graphics cards).</p> <p>(Some cards are available in Dual Config as well</p> <p>Gen 4 slot speed is available on 11<sup>th</sup> gen processors only.)</p> <p><b>High End cards:</b></p> <p>NVIDIA® RTX5000, 16GB, GDDR6</p> <p>AMD Radeon™ Pro W5700, 8GB, GDDR6</p> <p><b>Mid-range 3D cards:</b></p> <p>NVIDIA® RTX4000, 8GB, GDDR6</p> <p>NVIDIA® P2200, 5GB, GDDR5X</p> <p>AMD Radeon™ Pro W5500, 8GB, GDDR6</p> <p><b>Entry 3D cards:</b> (all single or dual)</p> <p>NVIDIA® P1000, 4GB, GDDR5</p> <p>NVIDIA® P620, 2GB, GDDR5</p> <p>NVIDIA® P400, 2GB, GDDR5</p> <p>AMD Radeon™ Pro WX3200, 4GB, GDDR5X</p>

# Features & Technical Specifications

## PRECISION 3650 TOWER

Feature	Precision 3650 Tower Technical Specifications
Storage Options <sup>4</sup>	<p>Support for up to (3) 3.5" SATA® or (4) 2.5" SATA®</p> <p>For 11<sup>th</sup> gen processors, up to (3) M.2 PCIe NVMe SSD on motherboard slots. Boot drive installed on gen 4 slot.</p> <p>For 10<sup>th</sup> gen processors, up to (2) M.2 PCIe NVMe SSD on motherboard slots. Boot drive installed on gen 3 slot.</p> <p>Support for Intel® Ready Mode™ technology</p> <p>Support for up to (1) additional PCIe SSD on Dell Precision Ultra-Speed drive with active cooling</p> <p><b>M.2 PCIe NVMe™ SSD</b></p> <ul style="list-style-type: none"><li>M.2 2280 256GB NVMe™ gen3 Class 40</li><li>M.2 2280 512GB NVMe™ gen4 Class 40</li><li>M.2 2280 512GB NVMe™ gen3 Class 50</li><li>M.2 2280 1TB NVMe™ gen3 Class 50</li><li>M.2 2280 1TB NVMe™ gen4 Class 40</li><li>M.2 2280 2TB NVMe™ gen4 Class 40</li></ul> <p><b>SATA® 2.5" 7200 RPM</b></p> <ul style="list-style-type: none"><li>2.5" 1TB 5400 RPM HDD (7mm)</li><li>2.5" 2TB 5400 RPM HDD (7mm)</li><li>2.5" 500GB 7200 RPM HDD (7mm)</li><li>2.5" 1TB 7200 RPM HDD (7mm)</li></ul> <p><b>SATA® 3.5"</b></p> <ul style="list-style-type: none"><li>3.5" 500GB 7200 RPM HDD</li><li>3.5" 1TB 7200 RPM HDD</li><li>3.5" 2TB 7200 RPM HDD</li><li>3.5" 4TB 5400 RPM HDD</li><li>3.5" 4TB 7200 RPM Enterprise HDD</li><li>3.5" 8TB 7200 RPM Enterprise HDD</li></ul> <p><b>Self Encrypting Drives</b></p> <ul style="list-style-type: none"><li>M.2 2280 256GB NVMe™ gen3 SED</li><li>M.2 2280 512GB NVMe™ gen3 SED</li><li>M.2 2280 1TB NVMe™ gen3 SED</li><li>2.5" 500GB 7200RPM OPAL SED FIPS (7mm)</li></ul> <p>RAID options 0, 1, 5, 10 available.</p>
Storage Controller	<b>Integrated:</b> Intel® Rapid Storage Controller 12.0 supporting SATA 6Gb/s and host based RAID 0/1/5/10
Speakers	Optional Internal Speaker; Optional Dell 2.0 stereo speaker systems available and Dell sound bar for select flat-panel displays, Optional Dell Pro Stereo Headset (wired/wireless).
Communications	<b>Integrated:</b> Intel® Ethernet Connection I219-LM 10/100/1000 <b>Optional:</b> 2 <sup>nd</sup> Ethernet Connection (RJ-45) up to 2.5Gbps <b>Optional:</b> Intel® 10/100/1000 PCIe Gigabit Networking card Aquantia® AQtion™ AQN-108 5/2.5 GbE NIC Adapter <b>Optional:</b> WLAN on PCIe Add-in-card with up to Wi-Fi® 6 (802.11ax) wireless module and Bluetooth® 5.2
Audio Controller	Integrated Realtek® ALC3246 High Definition Audio Codec (2 Channel)
Add-in cards	<p><b>Ethernet NIC</b></p> <ul style="list-style-type: none"><li>Aquantia AQtion AQN-108 5/2.5 GbE NIC Adapter (Full Height)</li><li>Intel® Gigabit Ethernet NIC (1Gbps) PCIe Card (Full Height)</li><li>Intel® Ethernet 10G Dual Port X550-t Adapter (2X10GbE)</li></ul> <p><b>WLAN on PCIe Add-in-card</b></p> <ul style="list-style-type: none"><li>Qualcomm® QCA6174A 802.11ac Dual Band (2x2) Wireless + Bluetooth 5.0 LE M.2, w/Internal Antenna</li><li>Intel® Wi-Fi 6 AX210 802.11ax Dual Band (2x2) Wireless Module + Bluetooth 5.2</li></ul> <p><b>Extra Ports</b></p> <ul style="list-style-type: none"><li>Additional USB Type C™ w/ DisplayPort Alternative</li><li>Additional VGA Port</li><li>Additional DisplayPort™</li><li>Additional HDMI 2.0 Port</li></ul> <p>Serial and Parallel Port PCIe Card (Full Height)</p> <ul style="list-style-type: none"><li>USB 3.2 G2 PCIe Card - 2 Type C™ Ports, 1DP in</li><li>USB 3.2 Type C™ Gen 2 PCIe add-in card (Full Height)</li><li>Serial port add-in card (PCIe)</li><li>Thunderbolt™ 4 PCIe add-in-card (Full Height)</li></ul>

# Features & Technical Specifications

## PRECISION 3650 TOWER

Feature	Precision 3650 Tower Technical Specifications
I/O Ports	<p><b>Front:</b> Front of the chassis has 2 I/O offerings - Standard and Advanced with following differences in USB and SD card reader. (Availability depends on chassis selection and region)</p> <p><b>Standard offering</b> 2x USB 2.0 Type A 1x USB 3.2 Type A Gen1 (5Gbps), with PowerShare 1x USB 3.2 Type C™ Gen2 (10Gbps), with PowerShare No SD card reader</p> <p><b>Advanced offering</b> 1x USB 3.2 Type A Gen1 (5Gbps) 1x USB 3.2 Type A Gen2 (10Gbps)</p> <p><b>Advanced offering</b> 1x USB 3.2 Type A Gen2 (10Gbps), with PowerShare 1x USB 3.2 Type C™ Gen 2x2 (20Gbps), with PowerShare With SD card reader</p> <p><b>Other Front ports</b> 1x 3.5mm headphone jack with microphone</p> <p><b>Rear</b> Starting from top, going left to right 2x DisplayPort™ 1.4 2x PS2 (Legacy for keyboard and mouse) 2x USB 2.0 Type A (with SmartPower) 1x RJ45 Network Connector 1x USB 3.2 Type A Gen2 (10Gbps) 2x USB 3.2 Type A Gen1 (5Gbps) 1x Audio Line out</p>
Chassis	<p>1x Optional Port (VGA, HDMI 2.0, DP1.4 with 5K display support, Type C w/DP-Alt mode) 1x Optional 2<sup>nd</sup> RJ45 Network Connector (2.5GHz)</p> <p>Height: 13.19 in. (335.0 mm) Width: 6.95 in. (176.6 mm) Depth: 13.58 in. (345.0 mm) Weight: 18.74 lb (8.5 kg) <b>Bays:</b> 4x SATA slots for (4) 2.5 in. / (3) 3.5 in. HDD / (1) ODD / (1) DP27</p> <p><b>Slots:</b> 3x M.2 2280 PCIe x4 slots for NVMe SSD on RKL-S CPUs (1 slot will be Gen4, 2 slots will be Gen3); 2x M.2 2280 PCIe x4 slots for NVMe SSD on CML-S Refresh Core i3 CPU (2 slots will be Gen3), 1x PCIe x16 Gen4 (full height), 1x PCI (full height), 1x PCIe x4 Gen3 (open ended, full height)</p> <p><b>Power Supply:</b> 300W 90% efficient PSU (80PLUS Gold Certified Certified) Energy Star compliant; 460W 90% efficient PSU (80PLUS Gold Certified Certified) Energy Star compliant; 550W 90% efficient PSU (80PLUS Gold Certified) Energy Star compliant; 1000W 90% efficient PSU (80 PLUS Gold Certified) Energy Star compliant (PSU availability varies by region.)</p>
Storage devices	<p>Optional: 1 optical drive: DVD-ROM; DVD+/-RW (Note: optical drive not available with Smart Card Reader (CAC/PIV)) SD Card Reader (Note: SD card reader is available in Advanced front I/O offering at the time of purchase. Availability for a chassis may differ across regions.)</p>
Security Options <sup>5</sup>	<p>Trusted Platform Module TPM 2.0, Dell Data Guardian, Dell Endpoint Security Suite Enterprise, Dell HW Crypto Accelerator, Microsoft Windows Bitlocker, Local HDD data wipe via BIOS ("Secure Erase"), Encryption - SED HDD (Opal FIPS), Chassis lock slot support, Chassis Intrusion Switch, D-Pedigree (Secure Supply Chain Functionality), Setup/BIOS Password, Optional Smart Card keyboards, Intel® Trusted Execution Technology, Intel® Identity Protection Technology, Dell Secure Works, BIOS support optional Computrace, Intel Software Guard extensions</p>

# Features & Technical Specifications

## PRECISION 3650 TOWER

Feature	Precision 3650 Tower Technical Specifications
Systems Management <sup>6</sup>	Dell Command   Intel vPro™ Out of Band
Regulatory & Environmental	EPEAT Gold Registered (available worldwide except India. EPEAT Silver available in India.) China CECP ENERGY STAR 8.0 qualified TCO 8.0 Certified Japan Green PC Design for Environment (ENV0425) CEC Compliance Mark plastics parts as per the ISO 11469 standard
Warranty & Support Services <sup>7</sup>	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