PRECISION
3660 Tower

Smart performance that scales
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Smart performance that scales

A cost-efficient, mini tower design featuring outstanding performance, scalability, improved CPU cooling and built-in AI responsiveness.

The slimline bay can also accommodate:
1. Front accessible M.2 NVMe SSD**
2. Integrated Smart Card Reader with Contact and Contact-less Support (CAC/ PIV)

3.5” or 2.5” front-accessible HDD storage option, lockable

Optional Optical drive

Breathable hexagon panel

Power Button
Audio & microphone combo jack
USB 3.2 Type-A Gen1 (5Gbps)
USB 3.2 Type-A Gen1 (5Gbps) with PowerShare
USB 3.2 Type-C Gen2 (10Gbps)
USB 3.2 Type-C Gen2 (10Gbps)
USB 3.2 Type-C Gen2x2 (20Gbps) with PowerShare
SD card reader

Security screw
Side cover release
Lock slot

Optional 2nd RJ-45 2.5G Ethernet connection

Optional port (VGA, HDMI 2.0, DP++ 1.4 HBR3, Type C w/DP-Alt mode)

RJ-45 1G Ethernet connection

(2) DisplayPort 1.4++ HBR2
(2) USB 3.2 Type-C Gen2 (10Gbps) with PD support
(2) USB 3.2 Type A Gen2 (10Gbps)
(2) USB 2.0 Type A (with SmartPower)

Audio out

Power connector

LED indicator

Click here to review 360 degree product demo.
**Intelligent performance**

Up to 12th Gen Intel® Core™ i9-12900K 16 Core (8P+8E) Processor (125W), up to RTX A6000 or 350W GPU support (NVIDIA and AMD Cards), up to 28TB storage, RAID support, up to 128GB or up to 4400MHz ECC and non-ECC DDR5 memory…

Option to upgrade CPU cooling:
- Standard CPU Air Cooler
- Advanced CPU Air Cooler
- Premium CPU Liquid Cooler

**Immersive productivity and design**

Front-accessible storage for 2.5” or 2.5” SATA HDD (with lockable door and key)
Front-accessible M.2 NVMe SSD
- Wi-Fi 6E, Bluetooth 5.2
- Front: USB 3.2 Type-C Gen2x2 (20Gbps) with PowerShare
- Support for 4K and 8K displays
- (3) PCIe expansion slots
- (3) M.2 NVMe PCIe SSD Slots
- Internal power supply
- Tool-less chassis

**Mission critical reliability and sustainability**

ISV Certifications for performance and reliability
- MIL-STD tested for reliability
- Reliable Memory Technology Pro comes with ECC memory
- EPEAT registered
- Our packaging is made from 87% recycled or renewable material
Dell Optimizer for Precision
Where productivity meets intelligence.

Dell Optimizer revolutionizes the way you work by fueling the world’s most intelligent PCs*. It is the only AI-based optimization software that learns and responds to the way you work and designed to automatically improve application performance, battery run-time, audio settings and privacy – all in the background while you’re working.

Personalized performance made for hybrid work

**Power to the creators**
Dell Optimizer for Precision empowers high-end users with ExpressResponse6 for performance optimization of storage heavy apps. If you’re a Precision user, you also have an exclusive Analytics feature for workload and system insights that help create personalized performance. You can also generate reports within Analytics to get system diagnostics and productivity gains.

**Intelligent privacy anywhere**
Privacy and security are a major concern – help keep sensitive data private with the world’s most comprehensive suite of Intelligent Privacy features1. Onlooker detection lets you texturize or turn on Safe Screen when an intruder is detected and Look Away Detect darkens the PC screen based on user behavior.

**Enhanced audio**
Intelligent Audio delivers audio and mic enhancements and reduces background noise so you can fully engage in meetings with confidence, wherever you collaborate. Neural noise cancellation enables advanced artificial intelligent techniques to distinguish human speech from any unwanted noise.

**Faster sign-in**
Get to work faster with ExpressSign-in2 – the proximity sensor detects your presence to wake on approach before Windows Hello logs you in via facial recognition.

**Unmatched connectivity**
Optimized for the best connectivity, ExpressConnect3 provides the world’s first simultaneous multi-network connection for faster data and video downloads4. It also enables joining the best network5 available and prioritizes traffic for conferencing apps, wherever you work.

**Improved performance**
ExpressResponse6 analyzes how you use your preferred apps7 to boost performance.

**Simplified manageability**
Elevate work experience with an easy-to-manage application that provides a seamless experience for both end-users and IT decision makers. Set up individual features and modules from Dell Optimizer that fit your work environment with the modular installation feature. Deployment updates and optimization of multiple PCs remotely can be done simultaneously via centralized management.
RECOMMENDED ACCESSORIES

Dell UltraSharp 34 Curved USB-C HUB Monitor - U3421WE
An immersive 34" WQHD curved monitor with wide color coverage and extensive connectivity including RJ45, USB-C® and quick-access front ports.

Dell Slim Soundbar - SB521A
World’s slimmest and lightest soundbar offers exceptional audio clarity and easy magnetic attachment to your Dell monitors, ensuring a clutter-free desk.

Dell UltraSharp 27 Monitor - U2722D
Take your work to new heights with this 27-inch QHD monitor featuring a wide color coverage, always-on built-in ComfortView Plus, and fast connectivity.

3Dconnexion SpaceMouse Wireless - 3DX-700066
3Dconnexion’s patented 6-Degrees-of-Freedom (6DoF) sensor is specifically designed to manipulate digital content or camera positions in industry-leading CAD applications.

Dell UltraSharp Webcam - WB7022
Elevate your video conferencing experience with this high quality 4K webcam that optimizes your visuals with a large 4K Sony STARVIS™ CMOS sensor and AI Auto-Framing.

Dell Pro Wireless Headset - WL5022
Work from anywhere with this Bluetooth Teams certified headset that lets you switch seamlessly to your PC or smartphone and enjoy crystal clear audio on the go.
<table>
<thead>
<tr>
<th>FEATURE</th>
<th>TECHNICAL SPECIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Processor Options</strong></td>
<td>12th Generation Intel® Core™ i5-12500, 18MB cache, 6 cores (8P+6E), 3.9GHz to 4.6GHz, 65W</td>
</tr>
<tr>
<td></td>
<td>12th Generation Intel® Core™ i5-12600, 19MB cache, 6 cores (8P+4E), 3.7GHz to 4.9GHz, 65W</td>
</tr>
<tr>
<td></td>
<td>12th Generation Intel® Core™ i7-12700K, 25MB cache, 12 cores (8P+8E), 3.8GHz to 5.1GHz, 125W</td>
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<tr>
<td></td>
<td>M.2 2280, 4TB, PCIe NVMe® Class 40 SSD</td>
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<tr>
<td><strong>Operating System</strong></td>
<td>Windows 11 Home, 64-bit</td>
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<td></td>
<td>Windows 11 Pro, 64-bit</td>
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<tr>
<td></td>
<td>Windows 10 Home, 64-bit</td>
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<tr>
<td></td>
<td>Windows 10 Pro, 64-bit</td>
</tr>
<tr>
<td><strong>Memory Options</strong></td>
<td>4 DIMM Slots: Up to 128GB or up to 4400MHz ECC and Non-ECC DDIMs</td>
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<tr>
<td></td>
<td>Maximum speed: 4400MHz</td>
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<td></td>
<td>Maximum capacity: 128GB</td>
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<td>Maximum memory speed varies by the following configuration on each channel. If the 2 DIMM configuration is not symmetrical, the maximum speed may drop.</td>
</tr>
<tr>
<td><strong>Storage</strong></td>
<td>Support for up to (3) M.2 2280 PCIe NVMe SSD on motherboard and up to (3) 3.5-inch SATA III or (4) 2.5-inch SATA II HDDs</td>
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<td></td>
<td>Front accessible 2.5-inch SATA or 3.5-inch SATA HDD (with lockable door and key) available with specific storage configurations</td>
</tr>
<tr>
<td><strong>Ports, Slots &amp; Chassis</strong></td>
<td>Front ports: USB 3.2 Gen 1 (5Gbps) port</td>
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<td></td>
<td>Rear ports: (2) DisplayPort 1.4 ports</td>
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<tr>
<td><strong>Graphics</strong></td>
<td>One PCIe Express x16 Gen5 slot supporting graphics cards up to 850W (Total power available 850W for entire PC chassis)</td>
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<td></td>
<td>Some cards are available in Dual configurations</td>
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<tr>
<td></td>
<td>Intel® UHD Graphics 730 for 12th Generation Core™ i3 processors</td>
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<td></td>
<td>Intel® UHD Graphics 770 for 12th Generation Core™ i7/i9 processors</td>
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**Precision 3660 Tower**

**Processor Options**: 12th Generation Intel® Core™ i5-12500, 18MB cache, 6 cores (8P+6E), 3.9GHz to 4.6GHz, 65W. 12th Generation Intel® Core™ i5-12600, 19MB cache, 6 cores (8P+4E), 3.7GHz to 4.9GHz, 65W. 12th Generation Intel® Core™ i7-12700K, 25MB cache, 12 cores (8P+8E), 3.8GHz to 5.1GHz, 125W. M.2 2280, 4TB, PCIe NVMe® Class 40 SSD. Windows 11 Home, 64-bit. Windows 11 Pro, 64-bit. Windows 10 Home, 64-bit. Windows 10 Pro, 64-bit. Windows 10 IoT 2021 LTSC (OEM Only) x64. Windows 10 CMT Government Edition, 64-bit (China only) (coming soon). Ubuntu® Linux 20.04 LTS (OEM Only) x64. Windows 10 Pro, 64-bit. Precision 3660 Tower. 4 years Accidental Damage Service. 5 years Basic Warranty with Hardware Service on site after remote diagnosis. 2 years Basic Warranty Extension. 3 years Basic Warranty Extension. 4 years Basic Warranty Extension. 5 years Basic Warranty Extension. 1 year ProSupport Plus for Next Business Day on-site service. 2 years ProSupport Plus for Next Business Day on-site service. 3 years ProSupport Plus for Next Business Day on-site service. 4 years ProSupport Plus for Next Business Day on-site service. 5 years ProSupport Plus for Next Business Day on-site service. 1 year ProSupport Plus for Client with Next Business Day on-site service. 2 years ProSupport Plus for Client with Next Business Day on-site service. 3 years ProSupport Plus for Client with Next Business Day on-site service. 4 years ProSupport Plus for Client with Next Business Day on-site service. 5 years ProSupport Plus for Client with Next Business Day on-site service.
## TECHNICAL SPECIFICATION

### FEATURE

**DIMENSIONS & WEIGHT**

- **US**
  - Height: 14.52in.  (369.00mm)
  - Width: 6.81in.  (173.00mm)
  - Depth: 16.53in.  (420.00mm)
  - Weight: 18.739lbs (8.5kg)

- **Rest of the world**
  - Height: 369.00mm (14.52in.)
  - Width: 173.00mm (6.81in.)
  - Depth: 420.00mm (16.53in.)
  - Weight: 8.5kg (18.739lbs)

### OPTICAL DRIVE

- 8x DVD-ROM 9.5mm Optical Disk Drive
- 8x DVD+/RW 9.5mm Optical Disk Drive
- Integrated Smart Card Reader with Contact and Contactless Support (CAC/PV)

### ADD-IN CARDS

- Serial Port Card
- Thunderbolt 4 PCIe Card
- Zoom Ultra-speed Card
- WLAN External Antenna AIC
- USB 4.0 Type-C PCIe AIC card
- Intel Gigabit Ethernet 2.5GbE NIC PCIe Card

### MULTIMEDIA

- (SOLD SEPARATELY IN MOST CASES)
- Realtek Audio Controller, ALC3246-CG Internal speakers (optional)

### CONNECTIVITY OPTIONS

- Qualcomm® WCN6856-DBS, 2x2MIMO, 3571Mbps, 2.4GHz/5GHz/6GHz, Wi-Fi 6E (Wi-Fi 802.11ax), Bluetooth 5.2 (Coming post launch)
- Intel® AX211, 2x2MIMO, 2400Mbps, 2.4GHz/5GHz/6GHz, Wi-Fi 6E (Wi-Fi 802.11ax), Bluetooth 5.2

### PRIMARY BATTERY

- N/A

### POWER OPTIONS

- 300W internal power supply unit, 92% Efficient PSU, 80 Plus Platinum
- 500W internal power supply unit, 92% Efficient PSU, 80 Plus Platinum
- 750W internal power supply unit, 92% Efficient PSU, 80 Plus Platinum

### REGULATORY AND ENVIRONMENTAL COMPLIANCE

- Product Safety, EMC and Environmental Datasheets
- Dell Regulatory Compliance Home Page
- Dell and the Environment

### CHIPSET

- Intel® W680

### HARDWARE SECURITY

- Padlock loop
- Lockable Cable Cover (optional)
- Lockable Bezel and Key for Front Accessible SATA HDD (optional)
- Chassis intrusion switch
- SafeID including Trusted Platform Module (TPM) 2.0
- Smart card keyboard (FIPS)
- Microsoft 10 Device Guard and Credential Guard (Enterprise SKU)
- Microsoft Windows Bitlocker
- Local hard drive data wipe through BIOS (Secure Erase)
- Self-encrypting storage drives (Opal, FIPS)
- Trusted Platform Module TPM 2.0
- China TPM
- Intel Secure Boot
- Intel Authenticate
- SafeBIOS: includes Dell Off-host BIOS Verification, BIOS Resilience, BIOS Recovery, and additional BIOS Controls

### RECOMMENDED ACCESSORIES

- Mouse: 3Dconnexion SpaceMouse Wireless - 3DX-700066
- Audio and Speakers:
  - Dell Slim Soundbar - SB521A
  - Dell Pro Wireless Headset - WL5022
- Display:
  - Dell UltraSharp 27 Monitor - U2722D
  - Dell UltraSharp 34 Curved USB-C Hub Monitor - U3421W
- Keyboards:
  - Dell Pro Wireless Keyboard and Mouse - KMS221W

### SYSTEMS MANAGEMENT

- Dell Client Command Suite for In-Band systems management
- Intel® vPro™ for Out-of-Band systems management

### CONFIGURATION SERVICES

- Factory image load
- BIOS customization
- Hardware customization
- Asset Tagging and Reporting
Sustainability on Dell Precision workstations
Leading the industry in sustainable practices in our products, packaging and supply chain.

PRECISION LEADS THE WORKSTATION INDUSTRY IN SUSTAINABLE DESIGN AND MATERIALS.

Design
1st
Workstations made with reclaimed carbon fiber and renewable bioplastic\(^1\).

Sustainable Materials
up to 46%
Recycled plastic in fixed workstations. Up to 17% in mobile workstations.

Packaging Innovation
25%
Ocean-bound plastic trays in Precision 5000 Series packaging.

PRECISION HAS

19
EPEAT registered products\(^{14}\)

16
TCO 8 certified configurations

8.0
ENERGY STAR® throughout the portfolio
Based on internal analysis, April 2021. Dell Optimizer available in 2020 devices, not available in OptiPlex 3000 series, Latitude 3310 2-in-1 and Latitude Chromebook Enterprise. Feature availability and functionality varies by model.

Available as Custom Factory Installation option through CRU QX118

Based on Dell internal analysis of competitive PC performance software and applications. September 2021. Intelligent Privacy is available on select Dell systems and devices.

Available on Latitude 9000 and select 7000 series; Precision mobile workstations 7000 and select 5000 series. See product details for availability.

ExpressConnect available with Dell Optimizer software version 2.0 and onwards. Download the latest at https://www.dell.com/support/home.

Disclaimer: Simultaneous multi-network connection (or Connection based teaming) is a new connectivity feature under ExpressConnect. It simultaneously sends and receives data and video traffic using two or more wired or wireless connections. Based on Dell internal analysis.

Best network selection based on signal strength, channel congestion, router type and others. Network suggestions based on user credentials.

ExpressResponse must be enabled in the Applications feature. DO learns how user uses the selected application(s) over several hours. Based on Dell testing using Sysmark 2018 benchmark on a Latitude system running productivity applications; and using performance evaluation benchmarks on Precision mobile workstations running ISV applications, March 2020. Improvement will vary based on product configuration, use, application and other factors

User must input preferred apps first in order for them to be analyzed.

Based on Dell Internal analysis, January 2019.

Based on Dell analysis, Jan 2021. 21% bioplastics in LCD coverlid.

EPEAT registered where applicable. EPEAT registration varies by country. See www.epeat.net for registration status by country.

Offering may vary by region. Some items may be available after product introduction. For complete details, refer to the Technical Guidebook published on www.dell.com/support.

System Memory and Graphics: Significant system memory may be used to support graphics, depending on system memory size and other factors.

4GB or Greater System Memory Capability: A 64-bit operating system is required to support 4GB or more of system memory.

Particular versions of Microsoft Windows may not support the full Bluetooth 4.2 functionality

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

TPM is available in selected regions.

Absolute: Not a Dell offer. Certain conditions apply. For full details, see terms and conditions at www.lockfordlaptops.com.

Please refer to www.epeat.net for specific country registration rating and participation.

Limited Hardware Warranty: 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.

Remote 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.

Dell Services: Availability and terms of Dell Services vary by region. For more information, visit www.dell.com/servicedescriptions.


Intel® Turbo Boost Max Technology 3.0 is only available with i7-12700, i9-12900, i7-12700K, i9-12900K processors.

Intel® Turbo Max Technology 3.0 is only available on Performance Cores.

125 W Processors can only have the Advanced CPU Air Cooler or Premium CPU Liquid Cooler.

300 W Power supply units can only have the Standard CPU Air Cooler.

ECC memory is not supported on Intel Core i3-12100 processor.

Available as CFI only.

(3) 3.5-inch SATA HDDs available with specific storage configurations only.

Up to (2) M.2 2230 PCIe NVMe SSDs are supported on the MB.

Available through Custom Factory Installation Only