PRECISION 3431 TOWER

Unmatched performance & affordability in a small form factor.

SPACE-SAVING DESIGN
The small form factor is ideal for space-constrained workspaces that need workstation-class performance and reliability. Optional WiFi capabilities and a range of accessible ports keep you connected to everything you need.

INTELLIGENT PERFORMANCE
Dell Precision Optimizer software comes on every Precision workstation and will tune your workstation to provide the best performance for the applications you use most. Optional Dell Precision Optimizer Premium is the only AI-based performance optimizer software in the industry to automatically adjust your workstation settings not only for the applications you use, but how you use them - truly customizing your system's performance for you.

LATEST TECHNOLOGY
Power through intensive tasks easily with 9th Generation Intel® Core™ and Xeon® processors and faster memory speeds of up to 2666MHz, 64GB. Run applications at top speeds with next generation AMD Radeon™ Pro or NVIDIA Quadro® professional graphics with up to 55W of graphics support. Scalable storage with SATA or PCIe NVMe SSD options, up to 6TB deliver plenty of room for every project.

MISSION CRITICAL RELIABILITY
Independent Software Vendor (ISV) certified to ensure the high-performance applications you rely on every day run smoothly. Also, with Xeon processors you can get Error Correcting Code (ECC) memory which identifies and corrects single bit memory errors. Our exclusive Reliable Memory Pro software works on top of ECC memory to identify and map out bad memory sectors and will alert you when the memory is at a critical level and needs replaced - providing layers of protection against memory related errors.
Recommended Accessories

PRECISION 3431 TOWER

**DELL PREMIER WIRELESS KEYBOARD AND MOUSE | KM717**
Enhance productivity and enjoy its elegant design that will fit into virtually any workspace. For increased productivity you can simultaneously pair up to two compatible devices with Bluetooth.

**DELL SMALL FORM FACTOR ALL-IN-ONE STAND (OSS17)**
Free up desk space by securely mounting your Precision small form factor desktop and Dell monitor on the compact stand.

**PRECISION SMALL FORM FACTOR DUST FILTER**
Custom built for your Precision, the external dust filter is easy to install and rinse clean while keeping your internal components clean and running smoothly.

**DELL CANVAS**
Bring your ideas to life with the groundbreaking new workspace tool that uses an intuitive touch screen, pen and totem to enable natural digital creation.

**DELL ULTRASHARP 25 MONITOR | U2518D**
This 25" Ultrasharp monitor with InfinityEdge features stunning colors and spectacular clarity on a QHD display. Discover ultimate efficiency with incredibly thin bezels, deal for a multiple monitor setup.

**DELL 24 MONITOR | P2418D**
See vividly clear visuals and get up to 18% more done with dual monitors by taking advantage of the 3 sided ultrathin bezel which is perfect for dual monitor setup.
Built for business

Dell Technologies Unified Workspace

Dell Technologies Unified Workspace is the most comprehensive solution to deploy, secure, manage and support virtually all devices from the cloud. We designed this revolutionary solution with intelligence and automation providing you with visibility across the entire endpoint environment. We help you save time, improve user experience, optimize resources and strengthen security.

Our modern deployment solution, ProDeploy in the Unified Workspace allows you to revolutionize the way deployment gets done. By spending just one hour for set up, IT can then hand deployment to Dell and have preconfigured systems shipped directly to the end users--wherever they are.

Dell Endpoint Security for the Unified Workspace helps you manage growing cyber risks while embracing workforce transformation. With Dell SafeGuard and Response powered by Secureworks, you gain actionable insight to help you quickly and efficiently prevent, detect and respond to cyber-attacks - keeping your environment free from harm.

We integrated our hardware management solution Dell Client Command Suite with VMware Workspace ONE, allowing you to take advantage of unified endpoint management (UEM) and manage the firmware, operating system and applications for all devices from the Workspace ONE console. UEM simplifies the management of the entire environment saving IT time from having to work between separate consoles for PCs and phones.

ProSupport Plus continues to be the only predictive and proactive support in the market. When compared to key competitors, ProSupport Plus with SupportAssist reduced time to resolve a failed hard drive with up to 11x faster time to resolution*

**Features & Technical Specifications**

**PRECISION 3431 TOWER**

**Feature** | **Precision 3431 Tower**
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**Technical Specifications** | **Processor Options**
9th generation Intel® Core™ i9, i7, i5, i3, and Pentium; Intel® Xeon® E Processors; Intel® Pentium® Gold G5420, 2 Core, 4MB Cache, 3.8 Ghz w/UHD Graphics 630 | Intel® Core™ i3-9100, 4 Core, 6MB Cache, 3.6GHz, 4.2 Ghz Turbo w/UHD Graphics 630
Intel® Core™ i5-9500, 6 Core, 9MB Cache, 3.0Ghz, 4.4 Ghz Turbo w/UHD Graphics 630 | Intel® Core™ i7-9700, 8 Core, 12MB Cache, 3.0Ghz, 4.8 Ghz Turbo w/UHD Graphics 630
Intel® Core™ i9-9900K, 8 Core, 16MB Cache, 3.6Ghz, 5.0 Ghz Turbo w/UHD Graphics 630
**Operating System Options**
Windows® 10 Professional (64 bit) | Windows® 10 Pro for Workstations (64 bit) w/ Intel Xeon processors
Windows® 10 Home (64 bit) | Red Hat® Enterprise Linux® 7.5 (coming soon)
Red Hat® Enterprise Linux® 8.0 (coming soon) | Ubuntu Linux 16.04, Ubuntu Linux 18.04, NeoKylin 6.0 SP3 (China only)
Ubuntu 20.04 | Intel® C246 Chipset
**Memory Options**
4 DImm Slots; Up to 64GB 2666Mhz Non-ECC & ECC DDR4 Memory | AMD Radeon Pro WX 4100
AMD Radeon Pro WX 3100
AMD Radeon Pro WX 2100
NVIDIA Quadro P1000
NVIDIA Quadro P620
NVIDIA Quadro P400
Professional 2D cards: Intel HD Graphics 630
**Graphics Options**
One PCI Express® x16 Gen 3 Graphics card up to 55W | 4.6Ghz Turbo with active cooling
**Storage Options**
Support for up to (1) M.2 PCIe SSD on motherboard slot and Up to (1) 3.5" SATA or (2) 2.5" SATA. Support for Intel Ready Mode technology | Support for up to (1) additional PCIe SSD on Dell Precision Ultra-Speed drive (x8) with active cooling
2.5", 500 GB/1 TB, 7200, SATA, HDD | 2.5", 500 GB, 7200, SATA, HDD FIPS Self
**Storage Options**
2.5", 2TB, 7200, SATA, HDD | 2.5", 2TB, 7200, SATA, HDD
2.5", 256 GB/512 GB/1 TB, SATA 20, SSD | 2.5", 512 GB/1 TB, SATA, SSD SED
3.5", 500 GB/1 TB/2 TB/4 TB/8TB, 7200, SATA, HDD | 3.5", 4 TB, 5400, SATA, HDD
M.2 2280, 256 GB/512 GB/1 TB/2 TB PCIe 40, SSD | M.2 2280, 512 GB PCIe 50, SSD
M.2 2280, 512 GB PCIe 40, SSD SED (Opal 2.0) | **Storage Controller**
Integrated: Intel Rapid storage Controller 12.0 | Support for up to (1) additional PCIe SSD on motherboard slot and Up to (1) 3.5" SATA or (2) 2.5" SATA. Support for Intel Ready Mode technology | Support for up to (1) additional PCIe SSD on motherboard slot and (1) 3.5" bay - supports (1) 3.5" or (2) 2.5" drives; (1) external slimline optical bay
**Add-in cards**
Thunderbolt 3 PCIe Card | Support for up to (1) additional PCIe SSD on motherboard slot and Up to (1) 3.5" SATA or (2) 2.5" SATA. Support for Intel Ready Mode technology | Dell Precision Ultra-Speed drive (x8) with active cooling
**Audio Controller**
Integrated Realtek ALC3234 High Definition Audio Codec (2 Channel) | **Speakers**
Internal Speaker; Optional Dell 2.0 stereo speaker systems available and Dell sound bar for select flat-panel displays | **I/O Ports**
1 - Audio Line out | Front
2 - Display Port
2 - PS2
1 - Optional Port (VGA, HMDI 2.0, DP++ 1.2, Type C w/DP-Alt mode) | 1 - Display Port
1 - Optional Port (VGA, HMDI 2.0, DP++ 1.2, Type C w/DP-Alt mode)
1 - RJ45 Network Connector
1 - Serial
1 - Audio Line out
2 - SATA 6Gb/s
1 - USB 3.1 Type C (10Gb), data only | Rear
2 - USB 2.0 Type A
1 - USB 3.1 Type A (5Gb)
1 - USB 3.1 Type C (10Gb), data only
1 - Universal Audio Jack | 3 - SATA 6Gb/s
1 - Internal SD Card reader (Optional)
**Chassis**
HxWxD: 11.42" x 3.65" x 11.5" (29cm x 9.26cm x 29.2cm), Min weight: 11.28lb (5.117kg) | **Power Supply**
260W 92% efficient PSU (80PLUS Platinum Certified) Energy Star Compliant; 200W 85% efficient PSU (80PLUS Bronze Certified) Energy Star Compliant
200W 85% efficient PSU (80PLUS Gold Certified) Energy Star Compliant

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**Power Supply**
Aquantia® AQnion™ AQN-108 5/2.5 GbE NIC Adapter
Optional: Intel 10/100/1000 PCIe Gigabit Networking card
Optional: Wireless / Bluetooth w/ vPro support

**Audio Controller**
Integrated Realtek ALC3234 High Definition Audio Codec (2 Channel)

**Speakers**
Internal Speaker; Optional Dell 2.0 stereo speaker systems available and Dell sound bar for select flat-panel displays

**I/O Ports**
1 - Audio Line out
2 - USB 2.0 Type A
1 - USB 3.1 Type A (5Gb)
1 - USB 3.1 Type C (10Gb), data only
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### Precision 3431 Tower Technical Specifications

#### Storage devices
- Optional:
  - 1 optical drive: DVD-ROM; DVD+/-RW, Blu Ray Writer
  - (Note: optical drive not available with Smart Card Reader (CAC/PIV))
  - SD Card Reader

#### Security Options
- 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, Optional Smart Card Reader, Intel® Trusted Execution Technology, Intel® Identity Protection Technology, Dell Secure Works, BIOS support optional Computrace, Intel Software Guard extensions

#### Systems Management
- Dell Client Command Suite; via vPro (coming soon)

#### Regulatory & Environmental
- ENERGY STAR® configurations available including 80 PLUS® Bronze and Platinum power supplies;
- EPEAT® registered (see epeat.net for specific registration rating/status by country); China CECP; GS Mark.
- For a complete listing of declarations & certifications, see Dell’s regulatory & compliance homepage at dell.com/regulatory_compliance

#### Warranty & Support Services
- 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
Some options available only in select regions; ISV certification applies to select configurations:
1. Intel Turbo Boost mode only available on Xeon, Core i7 and Core i5 processors. Intel Integrated HD graphics only available with select processors.
2. A 64-bit operating system is required to support 4GB or more of system memory.
3. GB means 1 billion bytes and TB equals 1 trillion bytes; actual capacity varies with preloaded material and operating environment and will be less.
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. Computrace is not a Dell offer. Certain conditions apply. For full details, see terms and conditions at www.absolute.com/en/about/legal/agreements.
6. Systems Management Options: Intel® vPro Technology - Fully vPro-capable at point of purchase; the vPro systems management option requires vPro processors. Includes support for Intel Advanced Management Technology (AMT) 9.x. Intel® Standard Manageability - Fully enabled at point of purchase, the Intel Standard Management option is a subset of the AMT features. ISM is not upgradable to vPro technology post-purchase. No Out-of-Band Systems Management - This option entirely removes Intel out of band systems (OOB) management features. The system can still support in-band management. OOB management support through AMT cannot be upgraded post-purchase.
7. Availability and terms of Dell Services vary by region. For more information, visit Dell.com/servicecontracts/global; Limited Hardware Warranty available by writing Dell USA LP, Attn: Warranties, One Dell Way, Round Rock, TX 78682 or see www.dell.com/warranty; Onsite 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.

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