PRECISION 7670
Power your creative zone.
**Flexible chassis design**

Power your purpose with a scalable 16” mobile workstation that is available in a thin or performance chassis.

- **Up to 12TB of storage, with 3 Gen 4 M.2 slots**
- **Easy access storage with optional door on the bottom of the base**
- **Chassis intrusion sensor**
- **WiFi 6E**
- **Bluetooth 5.2**
- **Optional 5G Mobile Broadband**

**FHD IR Camera, Windows Hello compliance, Integrated Camera Shutter, Proximity, Contextual Privacy and Ambient Light Sensors**

**Flexible design**

Two chassis size available, determine by performance requirement

- **Up to 180W/240W adapter**
- **Up to 93Whr battery**

**Advanced Thermals**

- User Selectable Thermals Tables (USTT)
- Dual Opposing Output (DOO) fan with liquid polymer blades
- Dual intake venting
- Thermal insulated material, GORE™

**Sustainability**

- EPEAT Gold Registered
- 100% recycled plastics & cardboard contained in packaging

**Pro 2.5 keyboard**

**Optional Smart Card Reader**

**Large click pad with optional NFC reader**

**Up to 180W/240W adapter**

**Up to 93Whr battery**

**Flexible design**

Two chassis size available, determine by performance requirement
Intelligent performance

Intel® Core™ i5-i9, up to 16 core (8P + 8E) (55W), up to next gen 16GB NVIDIA RTX A5500, (3) M.2 slots PCIe Gen 4 SSD (12TB)/RAID 5 support, up to 128GB of 4800MHz via CAMM, (2) Thunderbolt™ 4, (2) USB 3.2 Type A and (1) Type C Display Port

Dell Optimizer for Precision

Immersive productivity and design

Pro 2.5 keyboard, large click pad, camera shutter, proximity and ambient light sensors, chassis intrusion sensor

Up to 16:10, 4K (HDR500) OLED display with narrower bezel, 500nits, PremierColor, 100% DCI-P3, Touch and ComfortView Plus (LBL) options

Intel WiFi 6E 6GHz/BT5.2/vPro, 5G LTE WWAN

Mission critical reliability and security

ISV Certifications

Long life battery option

MIL-STD tested

ECC and RMT Pro options

Advanced thermals (vapor chambers, DOO fans, GORE™)
Dell Optimizer for Precision
We make it intelligent. You make it yours.

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 ExpressResponse® 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 features®. 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.

**Extended power**
ExpressCharge analyzes your power usage habits to improve PC battery utilization. It extends run times and charges your system faster when you need a boost in power.

**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-in® – 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, ExpressConnect® provides the world’s first simultaneous multi-network connection for faster data and video downloads®. It also enables joining the best network® available and prioritizes traffic for conferencing apps, wherever you work.
**RECOMMENDED ACCESSORIES**

**Dell UltraSharp 38 Curved USB-C Hub Monitor - U3821DW**
Experience clarity, productivity and connectivity on this 37.5” ultrawide WQHD+ curved hub monitor with 95% DCI-P3 color and integrated speakers.

**Dell UltraSharp 32 HDR PremierColor Monitor - UP3221Q**
Create phenomenal 4K HDR content on the world’s first professional monitor with 2K mini-LED direct backlit dimming zones.*

**Dell Premier Multi-Device Wireless Keyboard and Mouse - KM7321W**
Multi-task seamlessly across 3 devices with this premium full-size keyboard and sculpted mouse combo featuring programmable shortcuts and 36 months battery life.

**Dell Performance Dock - WD19DCS**
Dell’s most powerful dock* delivers the ultimate productivity experience. Charge your system faster, support up to three displays and connect to your peripherals via a single cable with dual USB-C connectors.

**Dell Premier Wireless ANC Headset - WL7022**
Collaborate with ease anywhere with this Teams certified wireless headset which offers active noise cancellation and smart sensors that automatically mute and unmute your call.

**Dell Pro Hybrid Briefcase Backpack 15 - PO1521HB**
Protect your laptop from impact with this earth friendly backpack that is lined with EVA foam cushioning. Easily convert from backpack to briefcase mode and travel with ease.

**Dell Mobile Adapter Speakerphone - MH3021P**
Multiport adapter with integrated speakerphone offers an all-in-one connectivity and conferencing solution.

**HTC VIVE Cosmos 3D VR Headset - MFG 99HARL000-00 Dell part AA809644**
Dive into virtual reality experiences with this HTC VIVE Cosmos 3-D virtual reality headset. A simple design eliminates the need for a base station, while the flip-up display lets you quickly escape to answer calls and texts.

**Dell USB-C Mobile Adapter - DA310**
Compact and portable 7-in-1 USB-C mobile adapter provides superb video, data connectivity and up to 90W power pass-through to your PC.

**Wacom Cintiq Pro 24 Creative Pen Display. Touch - DTH-2420**
Enhance your creative process with the Wacom Cintiq Pro 24. Featuring world-class color performance on one of Wacom’s largest 4K screens.

**3Dconnexion SpaceMouse Wireless - 3DX-700076**
3Dconnexion’s patented 6-Degrees-of-Freedom (6DoF) sensor is specifically designed to manipulate digital content or camera positions in industry-leading CAD applications. Simply push, pull, twist or tilt the 3Dconnexion controller cap to intuitively pan, zoom and rotate your 3D drawing.

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*Based on Dell analysis of publicly available data, July 2020.*
Precision workstations

Dell Precision fixed and mobile workstations are designed with the environment in mind, using sustainable materials in our products and packaging wherever possible.

### Design

**1st**
Workstations made with reclaimed carbon fiber and renewable bioplastic.

### Sustainable Materials

**up to 61%**
Recycled plastic in fixed workstations and up to 21% in mobile workstations. Oceanbound plastic is also used in the components of select Precisions.

### Packaging Innovation

**100%**
Precision mobile workstations ship in packaging made from 100% recycled or renewable materials and is 100% recyclable.

### ECOLABELS

**35+**
EPEAT registered products

**8.0**
ENERGY STAR® throughout the portfolio
### PRODUCTIVITY SOFTWARE
- Dell SupportAssist
- DDR (Dell Developed Recovery Environment)
- Dell Optimizer for Precision
- Intel® WiFi Direct
- Dell Support Center
- Dell Client Command Suite
- Optional Dell Data Security and Management Software
- Dell BIOS Verification
- Dell Client Command Suite
- VMware Carbon Black Endpoint Standard
- Optional Dell Endpoint Security and Management Software
- Dell BIOS Verification
- Dell Client Command Suite
- VMware Carbon Black Endpoint Standard
- Secureworks Threat Detection and Response
- Dell Encryption Enterprise
- Dell Encryption Personal
- Carbonite
- VMware Workspace ONE
- Absolute® Endpoint Visibility and Control
- Netskope
- Dell Supply Chain Defense

### SECURITY SOFTWARE
- Dell Client Command Suite
- Dell SupportAssist
- DDR (Dell Developed Recovery Environment)
- Dell Optimizer for Precision
- Intel® WiFi Direct
- Dell Support Center
- Dell Client Command Suite
- Optional Dell Data Security and Management Software
- Dell BIOS Verification
- Optional Dell Endpoint Security and Management Software
- VMware Carbon Black Endpoint Standard
- VMware Carbon Black Endpoint Standard + Secureworks Threat Detection and Response
- Dell Encryption Enterprise
- Dell Encryption Personal
- Carbonite
- VMware Workspace ONE
- Absolute® Endpoint Visibility and Control
- Netskope
- Dell Supply Chain Defense

### TECHNICAL SPECIFICATION

#### MEMORY OPTIONS
- 16GB, 1 x 16GB, DDR5, 4800MHz, non-ECC, CAMM module
- 32GB, 1 x 32GB, DDR5, 4800MHz, non-ECC, CAMM module
- 64GB, 1 x 64GB, DDR5, 4800MHz, non-ECC, CAMM module
- 128GB, 1 x 128GB, DDR5, 3600MHz, non-ECC, CAMM module
- 192GB, 2 x 96GB, DDR5, 4800MHz, non-ECC, SODIMM module
- 32GB, 2 x 16GB, DDR5, 4800MHz, ECC, SODIMM module
- 64GB, 2 x 32GB, DDR5, 4800MHz, ECC, SODIMM module
- 128GB, 2 x 64GB, DDR5, 4800MHz, ECC, SODIMM dual-channel
- 256GB, 2 x 128GB, DDR5, 4800MHz, ECC, SODIMM dual-channel

#### PRIMARY HARD DRIVE
- M.2 2280, 1TB, PCIe NVMe Gen4 x4, Class 40 SSD, self-encrypting drive
- M.2 2280, 512GB, PCIe NVMe Gen4 x4, Class 40 SSD, self-encrypting drive
- M.2 2280, 512GB, PCIe NVMe Gen4 x4, Class 40 SSD, self-encrypting drive
- M.2 2280, 4TB, PCIe NVMe Gen4 x4, Class 40 SSD, self-encrypting drive
- M.2 2280, 512GB, PCIe NVMe Gen4 x4, Class 40 SSD, self-encrypting drive
- M.2 2280, 256GB, PCIe NVMe Gen4 x4, Class 35 SSD

#### DISPLAY OPTIONS
- 16-inch, FHD+ 1920 x 1200, 60Hz, anti-glare, non-touch, 99% sRGB, 400 nits, wide-viewing angle, LBL, WLED
- 16-inch, FHD+ 1920 x 1200, 60Hz, anti-glare, non-touch, 99% sRGB, 500 nits, wide-viewing angle, LBL, WLED
- 16-inch, FHD+ 1920 x 1200, 60Hz, anti-glare, touch, 100% DCI-P3, 400 nits, wide-viewing angle, LBL, OLED

#### CAMRA
- 1080p at 30fps, FHD, RGB, with Omni-directional digital Microphone
- 1080p at 30fps, FHD, IR, with Omni-directional digital Microphone + Proximity sensor

#### AUDIO & SPEAKERS
- Stereo speakers with Dialogue, 2W x 4 = 8W total

#### WIRELESS
- Wireless: Intel® AX211, 2x2 MIMO, 2400Mbps, 2.4GHz/5GHz/6GHz, Wi-Fi 6E (802.11ax), Bluetooth® 5.2
- Mobile broadband: Qualcomm 5GX5 5G, Up to 3Gbps, 7x20MHz

#### BATTERY
- 6-cell, 85Whr, Lithium-ion, ExpressCharge™ 2.0
- 6-cell, 95Whr, Lithium-ion, ExpressCharge™ and ExpressChargeBoost

#### POWER OPTIONS
- SFF 180W, 7.40mm
- SFF 240W, 7.40mm
**PRECISION 7670**

### FEATURE TECHNICAL SPECIFICATION

**REGULATORY**

**CHIPSET**
- Intel® WM690

**INTEL RESPONSIVENESS TECHNOLOGIES**
- Intel® Rapid Storage Technology

**HARDWARE SECURITY**
- Trusted Platform Module (TPM) 2.0 discrete
- FIPS 140-2 certification for TPM
- TCG Certification for TPM (Trusted Computing Group)
- Contactless Smart Card and Control Vault 3
- SED SSD NVMe, SSD and HDD (Opal and non-Opal) per SDL
- Finger Print Reader in Power Button tied to Control vault 3
- SED (Opal 2.0 only - PCIe Interface)
- Chassis Intrusion Detection
- Battery Removal Detection
- RPMC SPI flash
- SPI Flash Tamper Detection / Prevention Shunt Circuit

**DOCKING**
- Dell Performance Dock - WD19DCS

**MULTIMEDIA**
- Dell Premier Wireless ANC Headset - WL7022
- Dell Mobile Adapter Speakerphone - MH3021P
- HTC Vive Cosmos 3D VR Headset - MFG 99HARL000-00 Dell part AA809644

**RECOMMENDED ACCESSORIES**
- Dell Premier Multi-Device Wireless Keyboard and Mouse - KM7321W
- Dell 7-in-1 USB-C Multiport Adapter - DA310
- Dell Pro Hybrid Briefcase Backpack 15 - PO1521HB
- Dell UltraSharp 38 Curved USB-C HUB Monitor - U3821DW
- 3Dconnexion SpaceMouse Wireless - 3DX-700066
- Wacom Cintiq Pro 24 Creative Pen Display Touch - DTH-242D

**INPUT**
- Optional 10-Finger Touch Display
- Large Clickpad - no buttons
- Spill Resistant Non-Backlit Keyboard
- Spill Resistant Backlit Keyboard

**SENSORS**
- Ambient Light Sensor
- Windows Auto Brightness
- Accelerometer
- Adaptive Thermal Performance (Lap vs. Desk mode) requires Accelerometer (NOTE: This is for thermal only.)
- Hall Effect Sensor
- Sensor Hub
- Near Field Proximity Sensor
- Proximity for SAR compliance (for the WWAN module)

**SYSTEMS MANAGEMENT**
- BIOS complies to Dell SMBIOS implementation spec (DSIS)
- SW and Drivers MUP/DUP compliant per spec Agile S01310
- Dell Power Manager (DPM)
- Dell Command | Configure Version 4.0
- Dell Command | Monitor 10.0
- Dell Command | Update 3.0
- Dell Command | Update Catalog (DCUC)
- Dell Command | Display (DCP)
- Dell Command | Integration Suite for System Center 5.0 (DCIS) with vPro
- Dell Command | Intel® vPro™ Out of Band (DCV)
- Dell Command | PowerShell Provider 2.0
- Dell Command | Display Driver Pack Catalog 1.0

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8