



# 7770

## Flexible chassis design

Put max power behind your purpose with a scalable 17.3" mobile workstation.

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

16:9 aspect ratio (up to HDR500 UHD), display with narrower bezel, 500nits, PremierColor, 99% DCI-P3, ComfortView Plus (LBL) options

Dual array mics with noise suppression technology

Up to 16TB of storage, with 4 Gen 4 M.2 slots

Easy access storage with optional door on the bottom of the base

Pro 2.5 keyboard

Optional Smart Card Reader

Chassis intrusion sensor

Large click pad with optional NFC reader

WiFi 6E

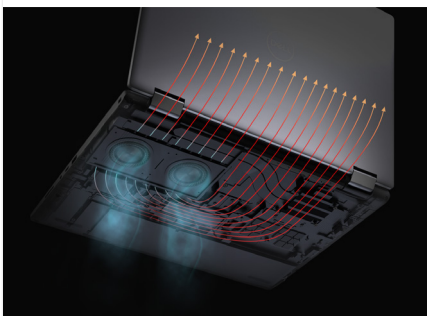
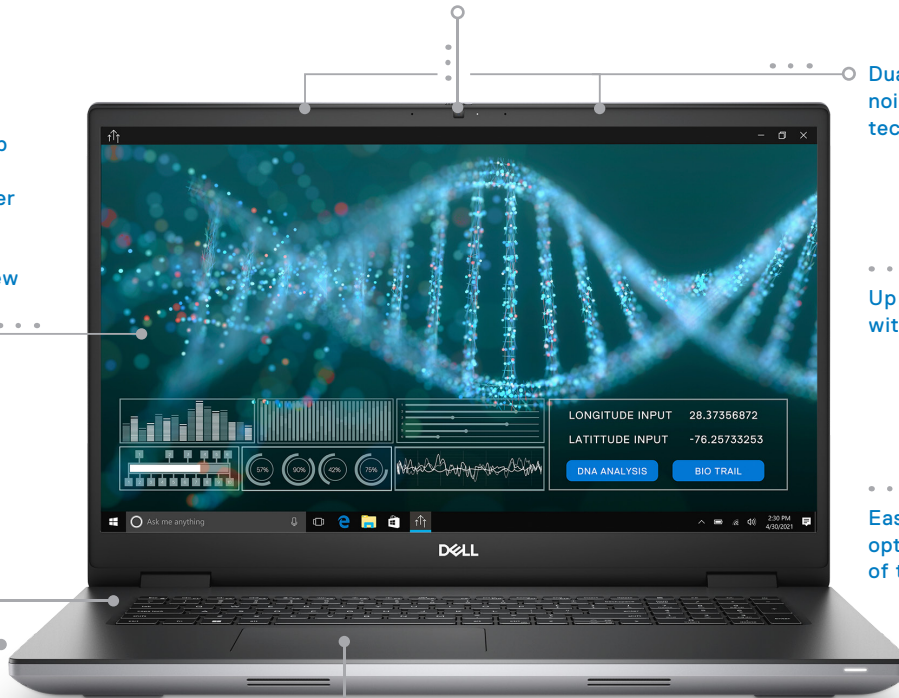
Bluetooth 5.2

### Dell Optimizer for Precision

- ExpressSign-in
- ExpressConnect
- ExpressCharge
- ExpressDischarge
- ExpressResponse
- Intelligent Audio
- Reporting & Analytics

### Sustainability

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



Up to 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™



# PRECISION 7770



## Intelligent performance

Intel® Core™ i5-i9, 16 core (8P + 8E) (55W), up to next gen 16GB NVIDIA RTX A5500, (4) M.2 slots Gen 4 SSD (16TB)/RAID 10 support, up to 128GB of DDR5 4800MHz CMM, (2) Thunderbolt 4, (1) USB 3.2 Gen Type A and (1) Type C ...  
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 UHD HDR400 display 99% DCI-P3, 500nits, PremierColor, ComfortView Plus ...  
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™)



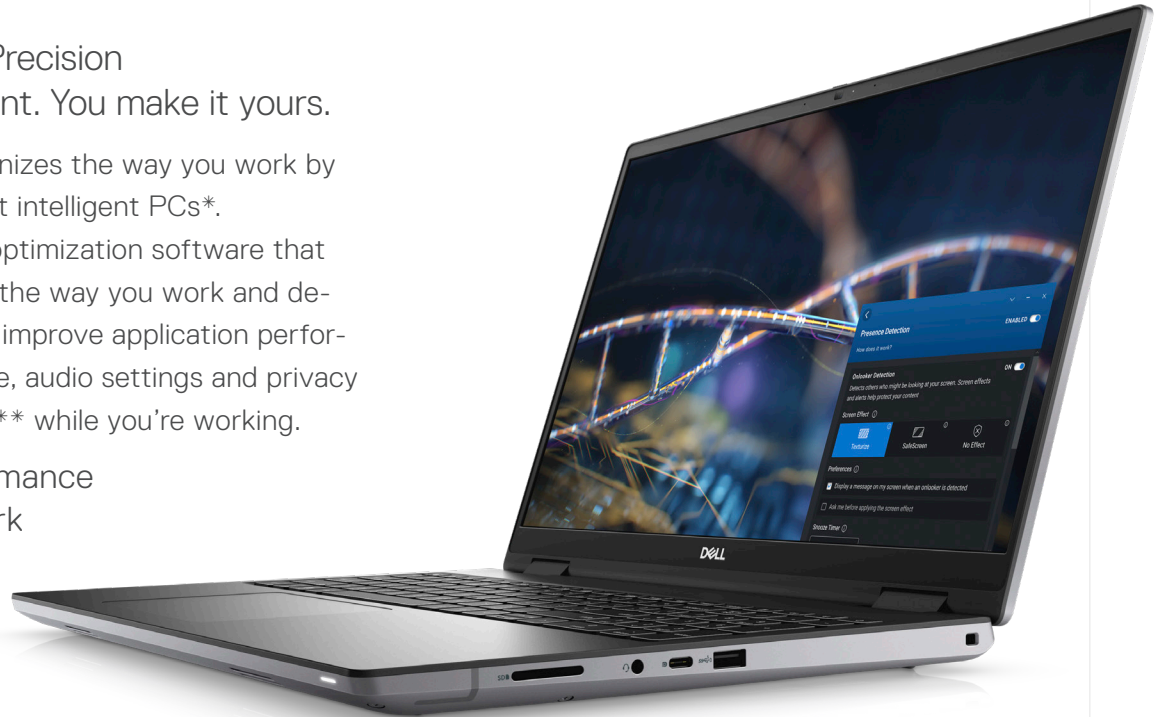
# 7770

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<sup>6</sup> 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<sup>1</sup>. 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<sup>2</sup> – 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<sup>3</sup> provides the world's first simultaneous multi-network connection for faster data and video downloads<sup>4</sup>. It also enables joining the best network<sup>5</sup> available and prioritizes traffic for conferencing apps, wherever you work.



## Improved performance

ExpressResponse<sup>6</sup> analyzes how you use your preferred apps<sup>7</sup> 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 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 backlight 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 Backpack 17 - PO1720P - PO1720P - FY20 Pro Backpack**

Protect your notebook and accessories with this lightweight backpack that is made with shock-absorbing EVA foam.



**Dell UltraSharp Webcam - Acadia Webcam - WB7022**

Elevate your video conferencing experience with the world's best image quality 4K webcam that optimizes your visuals with a large 4K Sony STARVIS™ CMOS sensor and AI Auto-Framing.



**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 Pro Wireless - 3DX-700075**

SpaceMouse® Pro Wireless offers professional 3D navigation, advanced ergonomic design, reliable connectivity with a high performance Universal Receiver and much more with up to two months of battery life.

AT THE DESK / ON THE GO

CREATIVE ACCESSORIES

## 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<sup>9</sup>.

### Sustainable Materials

up to 61%

Recycled plastic in fixed workstations and up to 21% in mobile workstations<sup>10</sup>. Oceanbound plastic is also used in the components of select Precisions<sup>11</sup>.

### Packaging Innovation

100%

Precision mobile workstations ship in packaging made from 100% recycled or renewable materials and is 100% recyclable<sup>12</sup>.

## ECOLABELS

35+

EPEAT registered products<sup>13</sup>



8.0

ENERGY STAR<sup>®</sup> throughout the portfolio



# PRECISION 7770

## FEATURE TECHNICAL SPECIFICATION

**MODEL NUMBER** Precision 7770

**PROCESSOR OPTIONS<sup>14</sup>** 12th Generation Intel® Core™ i5-12600HX vPro®, 18MB cache, 16 threads, 12 cores (4 P cores & 8 E cores) P cores 2.50GHz to 4.60GHz, E cores 1.80GHz to 3.30GHz, 55W  
12th Generation Intel® Core™ i7-12850HX vPro®, 25MB cache, 24 threads, 16 cores (8 P cores & 8 E cores) P cores 2.10GHz to 4.80GHz, E cores 1.50GHz to 3.40GHz, 55W  
12th Generation Intel® Core™ i9-12950HX vPro®, 30MB cache, 24 threads, 16 cores (8 P cores & 8 E cores) P cores 2.30GHz to 5.00GHz, E cores 1.70GHz to 3.60GHz, 55W

**OPERATING SYSTEM<sup>14</sup>** Windows 10 Home, 64-bit  
Windows 10 Professional, 64-bit  
Windows 10 Enterprise, 64-bit  
Windows 10 Pro Education, 64-bit  
Windows 10 Pro China, 64-bit  
Windows 11 Pro, 64-bit with DGR7  
Windows 11 Pro National Education, 64-bit  
Windows 11 Home, 64-bit with DGR7  
Red-Hat Enterprise Linux 8.6  
Ubuntu® Linux® 20.04 (64-bit)

**MEMORY OPTIONS<sup>14,18,22</sup>** 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  
8GB, 1 x 8GB, DDR5, 4800MHz, non-ECC, SODIMM  
16GB, 1 x 16GB, DDR5, 4800MHz, ECC, SODIMM  
16GB, 2 x 8GB, DDR5, 4800MHz, non-ECC, SODIMM  
32GB, 2 x 16GB, DDR5, 4800MHz, ECC, SODIMM  
32GB, 2 x 16GB, DDR5, 4800MHz, non-ECC, SODIMM  
64GB, 2 x 32GB, DDR5, 4800MHz, non-ECC, SODIMM

*Note: CAMM memory meets the standard of dual channel, even exceeds it, even though it is not in a standard 2x memory chip/slot/module format. DDR4 has two 64-bit channels (dual channel) but CAMM with DDR5 has four 32-bit channels (quad channel).*

**PRIMARY HARD DRIVE<sup>14, 20</sup>** M.2 2230, 256GB, PCIe NVMe Gen4 x4, Class 35 SSD  
M.2 2280, 512GB, PCIe NVMe Gen4 x4, Class 40 SSD  
M.2 2280, 1TB, PCIe NVMe Gen4 x4, Class 40 SSD  
M.2 2280, 2TB, PCIe NVMe Gen4 x4, Class 40 SSD  
M.2 2280, 4TB, PCIe NVMe Gen4 x4, Class 40 SSD  
M.2 2280, 512GB, PCIe NVMe Gen3 x4, Class 40 SSD, self-encrypting drive  
M.2 2280, 1TB, PCIe NVMe Gen3 x4, Class 40 SSD, self-encrypting drive  
M.2 2280, 512GB, PCIe NVMe Gen4 x4, Class 40 SSD, self-encrypting drive  
M.2 2280, 1TB, PCIe NVMe Gen4 x4, Class 40 SSD, self-encrypting drive

**GRAPHICS** **Integrated:**  
Intel® UHD Graphics

**Discrete: (optional)**  
NVIDIA® RTX A1000, 4GB, GDDR6  
NVIDIA® RTX A3000, 12GB, GDDR6  
NVIDIA® RTX A4500, 16GB, GDDR6  
NVIDIA® RTX A5500, 16GB, GDDR6

**DISPLAY OPTIONS<sup>14</sup>** 17.3-inch, FHD 1920 x 1080, 60Hz, anti-glare, non-touch, 99% DCIP3, 500 nits, wide-viewing angle  
17.3-inch, UHD 3840 x 2160, 120Hz, anti-glare, non-touch, 99% DCIP3, 500 nits, wide-viewing angle, WLED

**CASE COLOR** Aluminum Titan Grey

**PRODUCTIVITY SOFTWARE<sup>14</sup>** Dell Support Assist  
DDRE (Dell Developed Recovery Environment)  
Dell Optimizer for Precision  
Dell Support Center  
Intel® WiFi Direct

**SECURITY SOFTWARE<sup>14</sup>** 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

## FEATURE TECHNICAL SPECIFICATION

**WARRANTY<sup>20, 21</sup>** 3-year hardware service with on-site/in-home service after remote diagnosis  
4-year hardware service with on-site/in-home service after remote diagnosis (Upsell)  
5-year hardware service with on-site/in-home service after remote diagnosis (Upsell)  
3-year ProSupport with Next Business Day on-site service (Upsell)  
4-year ProSupport with Next Business Day on-site service (Upsell)  
5-year ProSupport with Next Business Day on-site service (Upsell)  
3-year ProSupport Plus with Next Business Day on-site service (Upsell)  
4-year ProSupport Plus with Next Business Day on-site service (Upsell)  
5-year ProSupport Plus with Next Business Day on-site service (Upsell)

**ACCIDENTAL DAMAGE SERVICES** 3-year Accidental Damage Service  
4-year Accidental Damage Service  
5-year Accidental Damage Service

**PORTS** (2) ThunderBolt™ 4 ports with (USB Type-C™)  
USB 3.2 Gen 2 Type-C port with DP-alt mode  
USB 3.2 Gen 1 port with PowerShare  
USB 3.2 Gen 1 port  
HDMI 2.0a port (UMA)/1 HDMI 2.1 port (DGPU)  
RJ-45 Ethernet port  
Headset (headphone and microphone combo) port

**SLOTS** SmartCard Reader  
Nano SIM-card slot, 4FF (internal)  
SD-card slot  
Wedge-shaped lock slot

**DIMENSIONS** Height: 1.13in. (28.50mm)  
Height (rear): 1.06in. (26.70mm)  
Height (front): 1.03in. (25.95mm)  
Width: 15.67in. (398.00mm)  
Depth: 10.44in. (265.02mm)  
Weight: 6.65lb (3.01kg)

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

**AUDIO & SPEAKERS<sup>14</sup>** Stereo speakers with Dialog, 2W x 4 = 8W total

**WIRELESS** **Wireless:**  
Intel® AX211, 2x2 MIMO, 2400Mbps, 2.40GHz/5GHz/6GHz, Wi-Fi 6E (WiFi 802.11ax), Bluetooth® 5.2

**Mobile broadband:**  
Qualcomm SDX55 5G, Up to 3Gbps, 7x20MHz

**BATTERY** 6-cell, 83Whr, Lithium-ion, ExpressCharge™ 2.0  
6-cell, 95Whr, Lithium-ion, ExpressCharge™ and ExpressChargeBoost

**POWER OPTIONS<sup>14</sup>** SFF 180W, 7.40mm  
SFF 240W, 7.40mm

**REGULATORY<sup>19, 22</sup>** **Product Safety, EMC and Environmental Datasheets:**  
<https://www.dell.com/learn/us/en/uscorp1/product-info-datasheets-safety-emc-environmental>

**Dell Regulatory Compliance Home Page:**  
<https://www.dell.com/learn/us/en/uscorp1/regulatory-compliance?s=corp>

**Dell and the Environment:**  
<https://corporate.delltechnologies.com/en-us/social-impact/advancing-sustainability/sustainable-supply-chain/environment.htm>



# PRECISION 7770

## FEATURE TECHNICAL SPECIFICATION

**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)  
Contacted Smart Card and Control Vault 3  
Contactless Smart Card, NFC, and ControlVault 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  
*(SOLD SEPARATELY)*

**MULTIMEDIA** Dell Premier Wireless ANC Headset - WL7022  
*(SOLD SEPARATELY)* 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  
*(SOLD SEPARATELY)* Dell 7-in-1 USB-C Multiport Adapter - DA310  
Dell Pro Hybrid Briefcase Backpack 15 - PO1521HB  
Dell UltraSharp 32 HDR PremierColor Monitor - UP3221Q  
Dell UltraSharp 38 Curved USB-C HUB Monitor - U3821DW  
3Dconnexion SpaceMouse Wireless - 3DX-700066  
Wacom Cintiq Pro 24 Creative Pen Display Touch - DTH-2420

**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  
Proximity for SAR compliance (for the WWAN module) Near Field Proximity Sensor

**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 | Deploy (DCP)  
Dell Command | Integration Suite for System Center 5.0 (DCIS) with vPro®  
Dell Command | Intel® vPro®™ Out of Band (DCIV)  
Dell Command | PowerShell Provider 2.0  
Dell Command | Deploy Driver Pack Catalog 1.0



\* 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.

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

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

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

4 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.

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

6 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

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

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

10 Based on internal analysis, April 2022.

11 Ocean-bound plastic used in the fan and fan housing (13%) on Precision 3260 CFF and the fan housing (28%) on Precision mobile workstations 3570 & 3571.

12 New packaging is made with up to 95% recycled content and up to 22% renewable content in the form of FSC paper fibers. Material make up varies by product and size. Excludes optional items added to order and included in box. Paper packaging materials can be recycled via municipal recycling, where available. System bag is made from recycled plastic and can be recycled along with other thin plastics.

13 EPEAT registered where applicable. EPEAT registration varies by country. See [www.epeat.net](http://www.epeat.net) for registration status by country.

14 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](http://www.dell.com/support).

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

16 4GB or Greater System Memory Capability: A 64-bit operating system is required to support 4GB or more of system memory.

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

18 Computrace: Not a Dell offer. Certain conditions apply. For full details, see terms and conditions at [www.ijackforlaptops.com](http://www.ijackforlaptops.com).

19 Please refer to [www.epeat.net](http://www.epeat.net) for specific country registration rating and participation.

20 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](http://www.dell.com/warranty).

21 On-site 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](http://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.

22 For complete listing of declarations and certifications, refer to the Dell Regulatory and Environmental Datasheet found in the Manuals section of Product Support information [www.dell.com/support/home/us/en/19](http://www.dell.com/support/home/us/en/19).