

# PRECISION 3460 SFF

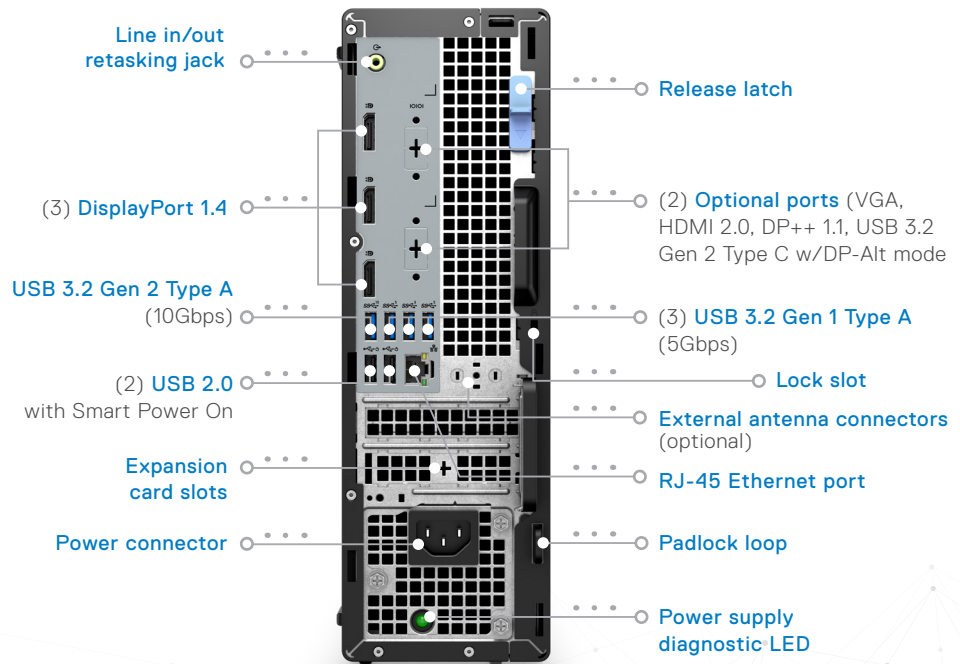
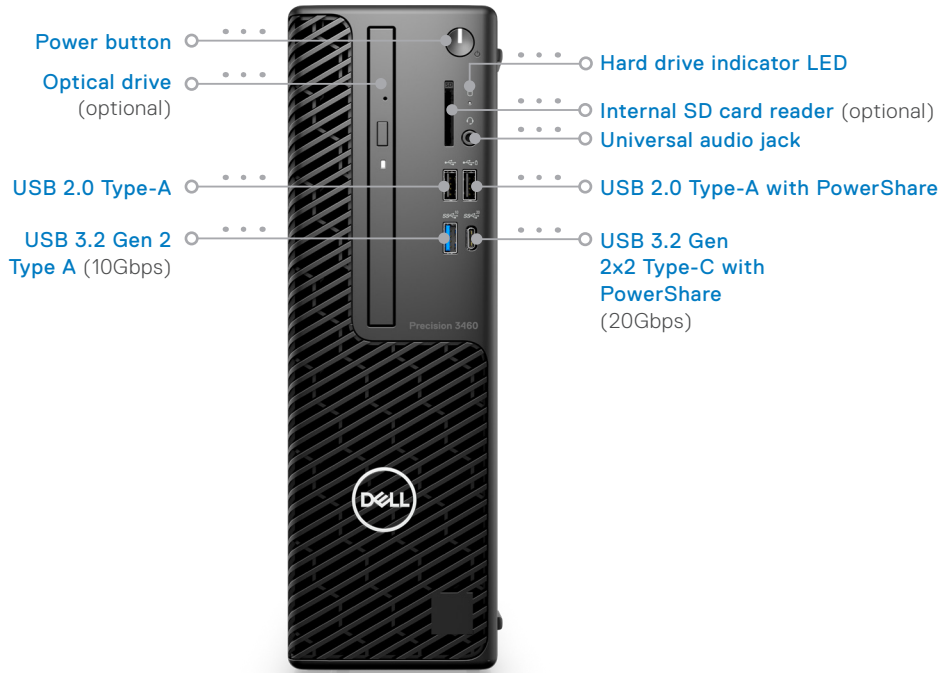
Smart performance  
and design



# 3460 SFF

Smart performance and design

An intelligent, performance-optimized, space-saving small form factor workstation featuring AI-responsiveness.



[Click here to review 360 degree product demo.](#)

# 3460 SFF



## Intelligent performance

Up to 13th Gen Intel® Core™ i9, 24 Core (8P+16E), 65W, NVIDIA & AMD Pro graphics (75W), (3) M.2 PCIe SSD slots, (2) PCIe expansion slots, up to 20TB storage, RAID support, up to 64GB of 4800MHz RAM (DDR5), ECC optional  
 ...  
 Dell Optimizer for Precision



## Immersive productivity and design

Small form factor, 8L  
 ...  
 Wireless 6E  
 ...  
 Bluetooth 5.2 w/vPro  
 ...  
 USB 3.2 2x2 20Gbps support  
 ...  
 (3) DisplayPort 1.4 with 8K support  
 Support for 4K and 8K displays  
 ...  
 Legacy support for select previous generation I/O  
 ...  
 Internal power supply



## Mission critical reliability and sustainability

ISV Certifications  
 ...  
 MIL-STD tested  
 ...  
 ECC memory and RMT Pro options  
 ...  
 EPEAT registered  
 ...  
 Our packaging is made from 87% recycled or renewable material



# 3460 SFF

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<sup>1</sup>. It is the only AI-based optimization software that learns and responds to the way you work and de-signed to automatically improve application performance, battery run-time, audio settings and privacy – all in the background<sup>7</sup> 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.



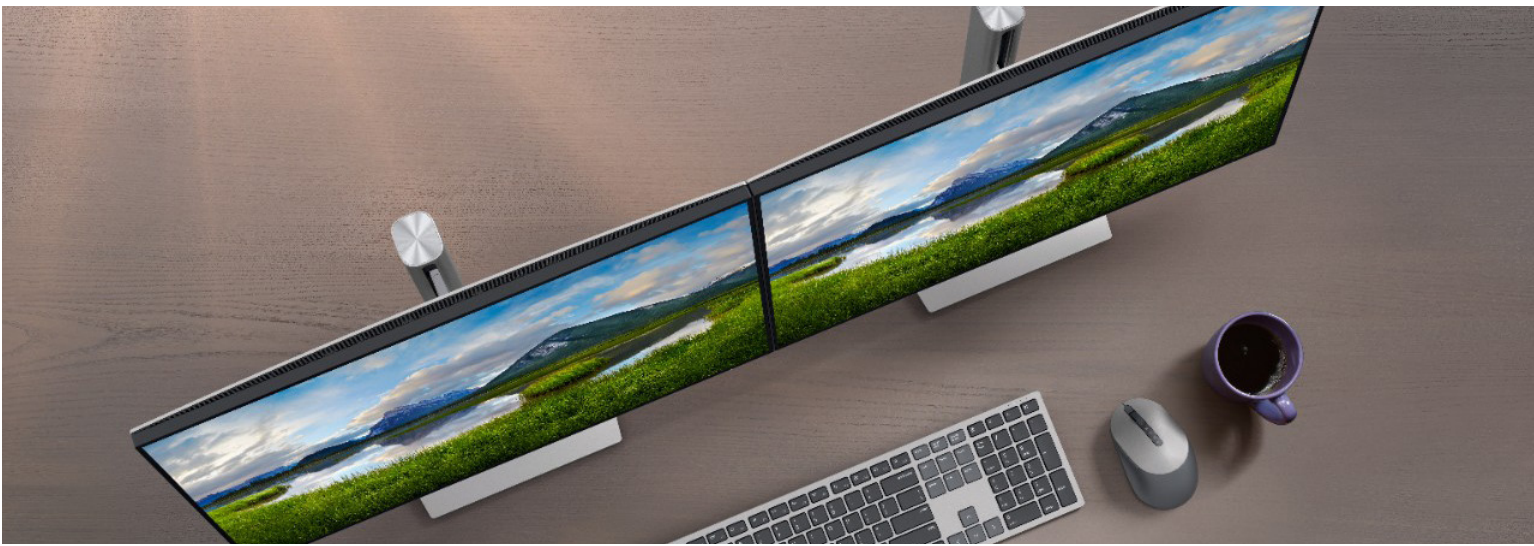
## Improved performance

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 USB-C Hub Monitor - U2421E

Experience vibrant color and reduced harmful blue light emissions with ComfortView Plus. Featuring an RJ45 port for Ethernet connectivity.



### Dell Small Form Factor All-in-One Stand - OSS21

Securely house your Precision small form factor desktop and Dell monitor neatly on your desk with the compact Dell Small Form Factor All-in-One Stand - OSS21.



### 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.



### 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.



### 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.



### Dell UltraSharp 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.

PRECISION

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## FEATURE TECHNICAL SPECIFICATION

**MODEL NUMBER** Precision 3460 SFF

**PROCESSOR OPTIONS<sup>16</sup>** 13th Generation Intel® Core™ i3-13100, 12 MB cache, 4 cores (4+0), 3.4 GHz to 4.5 GHz, 60 W  
 13th Generation Intel® Core™ i5-13400, 20 MB cache, 10 cores (6+4), 2.5 GHz to 4.6 GHz, 65 W  
 13th Generation Intel® Core™ i5-13500, 24 MB cache, 14 cores (6+8), 2.5 GHz to 4.8 GHz, 65 W  
 13th Generation Intel® Core™ i5-13600, 24 MB cache, 14 cores (6+8), 2.6 GHz to 5.0 GHz, 65 W  
 13th Generation Intel® Core™ i7-13700, 30 MB cache, 16 cores (8+8), 2.1 GHz to 5.2 GHz, 65 W  
 13th Generation Intel® Core™ i9-13900 vPro®, 36 MB cache, 24 cores (8+16), 2.1 GHz to 5.6 GHz, 65 W  
 12th Generation Intel® cores™ i3-12100, 12MB cache, 4 cores, 8 threads, 3.30GHz to 4.30GHz, 60W  
 12th Generation Intel® cores™ i5-12500, 18MB cache, 6 cores, 12 threads, 3.00GHz to 4.60GHz, 65W  
 12th Generation Intel® cores™ i5-12600 vPro®, 18MB cache, 6 cores, 12 threads, 3.30GHz to 4.80GHz, 65W  
 12th Generation Intel® cores™ i7-12700 vPro®, 25MB cache, 12 cores, 20 threads, 2.10GHz to 4.90GHz, 65W  
 12th Generation Intel® cores™ i9-12900 vPro®, 30MB cache, 16 cores, 24 threads, 2.40GHz to 5.10GHz, 65W

**OPERATING SYSTEM<sup>16</sup>** Windows 11 Home, 64-bit  
 Windows 11 Pro, 64-bit  
 Windows 11 Pro National Academic, 64-bit  
 Windows 11 Pro for Workstations, 64-bit  
 Windows 10 Home, 64-bit  
 Windows 10 Pro, 64-bit  
 Windows 10 Pro National Academic, 64-bit  
 Windows 10 IoT 2021 LTSC (OEM Only)<sup>24</sup>  
 Ubuntu® 22.04 LTS  
 RHEL 8.6, 64-bit

**MEMORY OPTIONS<sup>16,17,18</sup>** 8 GB, 1 x 8 GB, DDR5, 4800 MHz, ECC, Single-channel  
 16 GB, 1 x 16 GB, DDR5, 4800 MHz, ECC, Single-channel  
 16 GB, 2 x 8 GB, DDR5, 4800 MHz, ECC, Dual-channel  
 32 GB, 1 x 32 GB, DDR5, 4800 MHz, ECC, Single-channel  
 32 GB, 2 x 16 GB, DDR5, 4800 MHz, ECC, Dual-channel  
 64 GB, 2 x 32 GB, DDR5, 4800 MHz, ECC, Dual-channel  
 8 GB, 1 x 8 GB, DDR5, 4800 MHz, Non-ECC, Single-channel  
 16 GB, 1 x 16 GB, DDR5, 4800 MHz, non-ECC, single-channel  
 16 GB, 2 x 8 GB, DDR5, 4800 MHz, non-ECC, dual-channel  
 32 GB, 1 x 32 GB, DDR5, 4800 MHz, non-ECC, single-channel  
 32 GB, 2 x 16 GB, DDR5, 4800 MHz, non-ECC, dual-channel  
 64 GB, 2 x 32 GB, DDR5, 4800 MHz, non-ECC, dual-channel  
 5600MHz DDR5 is coming soon in 2023.

**PRIMARY HARD DISK DRIVE<sup>16,19</sup>** M.2 2280, 256 GB, PCIe NVMe, Class 40 SSD  
 M.2 2280, 512 GB, PCIe NVMe, Class 40 SSD  
 M.2 2280, 1 TB, PCIe NVMe, Class 40 SSD  
 M.2 2280, 1 TB, PCIe NVMe, Class 40 SSD  
 M.2 2280, 2 TB, PCIe NVMe, Class 40 SSD  
 M.2 2280, 4 TB, PCIe NVMe, Class 40 SSD  
 M.2 2280, 256 GB, PCIe NVMe, Class 40 SSD, self-encrypting drive  
 M.2 2280, 512 GB, PCIe NVMe, Class 40 SSD, self-encrypting drive  
 M.2 2280, 1 TB, PCIe NVMe, Class 40 SSD, self-encrypting drive  
 M.2 2280, 512 GB, PCIe NVMe, Class 50 SSD  
 M.2 2280, 1 TB, PCIe NVMe, Class 50 SSD  
 Up to 20TB total storage.

**GRAPHICS** Intel® UHD Graphics 730 with 13th Generation Intel® Core™ i3 processor  
 Intel® UHD Graphics 770 with 13th Generation Intel® Core™ i5/i7/i9 processors  
 NVIDIA® T400, 2 GB GDDR6, low profile  
 NVIDIA® T1000, 4 GB GDDR6, low profile  
 NVIDIA® RTX™ A2000, 6 or 12 GB GDDR6, low profile  
 AMD Radeon™ Pro® WX3200, 4 GB GDDR6, low profile

**DISPLAY (SOLD SEPARATELY)** Dell Collaboration 24 USB-C Hub Monitor - C2422HE  
 Dell UltraSharp 24 Monitor - U2422H  
 Dell commercial displays including E series, Professional P series, UltraSharp, and Collaboration monitors

**CASE COLOR** Dell Standard Black, Resin

**PRODUCTIVITY SW<sup>16</sup>** Microsoft Office 30-day trial  
 Microsoft Office Professional 2021  
 Microsoft Office Home and Business 2021

## FEATURE TECHNICAL SPECIFICATION

**SECURITY<sup>16</sup>** Dell Client Command Suite (DCCS)  
 Dell Optimizer for Precision  
 Dell PremierColor  
 Certificate Based Authentication (CBA)/Authenticated BIOS Interface (ABI)  
 McAfee® Small Business Security 30-day free trial  
 Dell Encryption Personal  
 Dell Encryption Enterprise  
 Dell Encryption External Media  
 Dell Data Protection | BitLocker Manager (DDP | BLM)  
 Dell Trusted Device (SafeBIOS)

**SECURITY<sup>16</sup>** Digital Device Identity and Secured Component Verification  
 Secure BIOS Baseline  
 Secured-core PC  
 Support Assist for PCs  
 Support Assist OS Recovery (Excalibur)

**WARRANTY<sup>20,21</sup>** 1-year basic warranty with on-site service after remote diagnostics  
 2-year basic warranty extension  
 3-year basic warranty extension  
 4-year basic warranty extension  
 5-year basic warranty extension  
 1-year ProSupport with Next Business Day on-site service  
 2-year ProSupport with Next Business Day on-site service  
 3-year ProSupport with Next Business Day on-site service  
 4-year ProSupport with Next Business Day on-site service  
 5-year ProSupport with Next Business Day on-site service  
 1-year ProSupport Plus for Client with Next Business Day on-site service  
 2-year ProSupport Plus for Client with Next Business Day on-site service  
 3-year ProSupport Plus for Client with Next Business Day on-site service  
 4-year ProSupport Plus for Client with Next Business Day on-site service  
 5-year ProSupport Plus for Client with Next Business Day on-site service

**ACCIDENTAL DAMAGE SERVICES** 1-year Accidental Damage Service  
 2-year Accidental Damage Service  
 3-year Accidental Damage Service  
 4-year Accidental Damage Service  
 5-year Accidental Damage Service

**KEYBOARD<sup>16</sup>** Dell Premier Wireless Keyboard and Mouse - KM7321W

**PORTS & SLOTS** **Front ports:**  
 USB 2.0 port  
 USB 2.0 port PowerShare  
 USB 3.2 Gen 2 port  
 USB 3.2 Gen 2x2 capable Type-C® port  
 Universal audio port  
 SD 4.0 card slot (optional)

**Rear ports:**  
 RJ45 Ethernet port  
 (2) USB 2.0 ports with PowerOn  
 USB 3.2 Gen 2 port  
 (3) USB 3.2 Gen 1 ports  
 Re-tasking line-out/line-in audio port  
 (3) DisplayPort 1.4a port  
 Optional video port (HDMI 2.0b /Displayport 1.4a (HBR3)/VGA/USB Type-C with DisplayPort Alt mode)  
 Optional Serial/PS2 port  
 Half-height Gen 4 PCIe x16 slot  
 Half-height Gen 3 PCIe x4 slot  
 M.2 2230 slot for WiFi and Bluetooth card  
 M.2 2280 slot for solid-state drive  
 (2) M.2 2230/2280 for solid-state drive  
 (3) SATA 3.0 slot for 3.5/2.5-inch hard drive, slim optical drive  
 Chassis intrusion switch  
 Security-cable slot  
 Padlock ring

**CHASSIS** Small Form Factor

**OPTICAL DRIVE** DVD±RW, Slimline 9.5 mm (optional)

**DIMENSIONS & WEIGHT** **US**  
 Height: 11.42in. (290.00mm)  
 Width: 3.65in. (92.60mm)  
 Depth: 11.53in. (292.80mm)  
 Weight (minimum): 8.52lbs. (3.87kg)  
 Weight (maximum): 11.86lbs. (5.38kg)

**Rest of the world**  
 Height: 290.00mm (11.42in.)  
 Width: 92.60mm (3.65in.)  
 Depth: 292.80mm (11.53in.)  
 Weight (minimum): 3.87kg (8.52lbs.)  
 Weight (maximum): 5.38kg (11.86lbs.)

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## FEATURE TECHNICAL SPECIFICATION

<b>MULTIMEDIA<sup>16</sup></b> <i>(SOLD SEPARATELY IN MOST CASES)</i>	Realtek Audio Controller - ALC3246-CG Dell Slim Soundbar - SB521A Dell Pro Stereo Headset - UC350 Dell Pro Stereo Soundbar - AE515M
<b>CONNECTIVITY OPTIONS</b>	Qualcomm WCN6856-DBS, 2x2 MIMO, 3571 Mbps, 2.4GHz/5GHz/6GHz, Wi-Fi 6E (WiFi 802.11ax), Bluetooth® 5.2 Intel® AX211, 2x2 MIMO, 2400 Mbps, 2.4GHz/5GHz/6GHz, Wi-Fi 6E (WiFi 802.11ax), Bluetooth® 5.2
<b>POWER OPTIONS</b>	260W internal power supply unit, 85% efficient PSU, 80 Plus Bronze 300W internal power supply unit, 92% Efficient PSU, 80 Plus Platinum
<b>REGULATORY AND ENVIRONMENTAL COMPLIANCE<sup>22,23</sup></b>	Product Safety, EMC and Environmental Datasheets Dell Regulatory Compliance Home Page Dell and the Environment
<b>CHIPSET</b>	Intel® W680
<b>HARDWARE SECURITY</b>	Security-cable slot Padlock rings Lockable port cover Chassis intrusion switch Contact card reader Data port disablement Fingerprint reader DDPE UEFI Preboot Authentication (PBA) solution for Windows 8 and greater TPM 2.0 FW TPM (Discrete TPM Disabled) for China and Select Global customers Intel Secure Boot (TXT + TPM) BIOS password update via (Dell Command   Configure) Intel's Identity Protection (IPT) Intel Authenticate
<b>SYSTEMS MANAGEMENT</b>	WOL non-AMT from LOM, add-in NIC and wireless vPro™ (iAMT 14.x) or greater over wireless Intel® Standard Manageability (ISM) non-vPro™ Intel® Endpoint Management Assistant No OOB Management AMT Enable/Disable through BIOS DASH (through AMT and ISM) OOB Remote BIOS Management and HDD Wipe Dell Command   Integration Suite for SCCM (DCIS) Dell Command   Intel® vPro™ Out of Band (DCIV) Dell Command   Monitor (DCM) CIM configuration features BIOS Configuration through Dell Command   Configure and Dell Command   PowerShell Provider Dell Command   Configure (DCC) AMT Configuration Dell Command   Update (DCU) Dell Command   Deploy (DCD)
<b>STORAGE CONTROLLER</b>	Intel Rapid Storage Technology Intel Management Engine (ME) 12.0 or later
<b>ADD-IN CARDS</b>	Serial port PCIe low profile card Parallel port PCIe low profile card USB 3.2 Type-C® PCIe card CAC/PIV module

SUSTAINABILITY ON

# DELL 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.



## Up to 5 types

Of recycled or renewable materials used in the components of select Precision Mobile Work Stations<sup>1</sup>:

## 1st

Precision 5680 is the first Precision Mobile workstation to use low carbon emissions and recycled aluminum<sup>2</sup> in its chassis.

## 100%

New Precision Mobile Workstations ship in packaging made from 100% recycled or renewable materials and is 100% recyclable<sup>3</sup>.

## Ecolabels

### 30+

EPEAT Gold registered products



### 8.0

ENERGY STAR 8.0 throughout



Data as of February 2023

<sup>1</sup> Based on internal analysis, January 2023. Applies to Precision 3480, 3580 and 3581.

<sup>2</sup> Based on internal analysis, March 2023

<sup>3</sup> New packaging is made with up to 93.2% recycled content and up to 61.2% renewable content in the form of renewable paper fibers. Material makeup 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.

**DELL**Technologies



\* 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.

8 Based on a Forrester Study commissioned by Dell Technologies and Intel: The Total Economic Impact of Dell's PC as a Service", November 2020 <https://www.delltechnologies.com/asset/en-us/solutions/business-solutions/industry-market/forrester-the-total-economic-impact-of-dells-pc-as-a-service.pdf>

9 Based on a Forrester Total Economic Impact™ Study commissioned by VMware, "The Total Economic Impact™ of VMware Workspace ONE for Windows 10", September 2018. Results from interviews with VMware Workspace ONE customers and/or based on a 12,000-employee composite organization.

10 Based on a Principled Technologies test report, "Spend Less Time and Effort Troubleshooting Laptop Hardware Failures" dated April 2018. Testing commissioned by Dell, conducted in the United States. Actual results will vary. Full report: <http://facts.pt/L52XKM>

11 Based on Principled Technologies Report commissioned by Dell Technologies, "Deliver pre-configured systems to end users faster with Dell Provisioning for VMware Workspace ONE", January 2019, comparing deployment using Dell Provisioning for Workspace ONE vs. traditional deployment. Results extrapolated to deployment of 1000 systems, a week represents seven full workdays. Actual results will vary.

12 Based on Dell Internal analysis, January 2019.

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

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

16 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).

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

18 4GB or Greater System Memory Capability: A 64-bit operating system is required to support 4GB or more of system memory.

19 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.

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

23 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).

24 Available through Custom Factory Installation Only