

PRECISION 3460 SFF

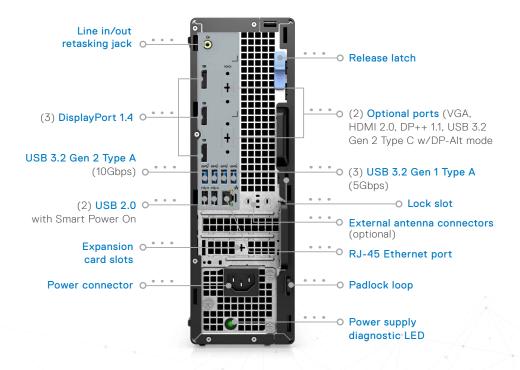
Smart performance and design



Smart performance and design

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





Click here to review 360 degree product demo.











Intelligent performance

Up to 12th Gen Intel® Core™ i9, 16 Core (8P+8E), 65W, NVIDIA & AMD Pro graphics (75W), (3) M.2 PCle SSD slots, (2) PCle expansion slots, up to 20TB storage, RAID support, up to 64GB of 4800MHz RAM (DDR5), ECC optional

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Dell Optimizer for Precision



Immersive productivity and design

Small form factor, 8L

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Wireless 6E

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Bluetooth 5.2 w/vPro

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USB 3.2 2x2 20Gbps support

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(3) DisplayPort 1.4 with 8K support Support for 4K and 8K displays

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Legacy support for select previous generation I/O

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Internal power supply



Mission critical reliability and sustainability

ISV Certifications

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MIL-STD tested

. . .

ECC memory and RMT Pro options

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EPEAT registered

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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 Al-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.



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 ExpressSignin² – 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 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° webcam¹⁵ that optimizes your visuals with a large 4K Sony STARVIS™ CMOS sensor and Al Auto-Framing.

FEATURE TECHNICAL SPECIFICATION

MODEL NUMBER Precision 3460 SEE

PROCESSOR OPTIONS¹⁶

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 SYSTEM¹⁶

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 Enterprise 2019 LTSC (OEM only) Ubuntu® 20.04 LTS, 64-bit

MEMORY OPTIONS 16,17,18

8GB, 1 x 8GB, DDR5, 4800MHz, ECC, Single-channel 16GB, 1 x 16GB, DDR5, 4800MHz, ECC, Single-channel 16GB, 2 x 8GB, DDR5, 4800MHz, ECC, Dual-channel 32GB, 1 x 32GB, DDR5, 4800MHz, ECC, Single-channel 32GB, 2 x 16GB, DDR5, 4800MHz, ECC, Dual-channel 64GB, 2 x 32GB, DDR5, 4800MHz, ECC, Dual-channel 8GB, 1 x 8GB, DDR5, 4800MHz, Non-ECC, Single-channel

16GB, 1 x 16GB, DDR5, 4800MHz, Non-ECC,

Single-channel

16GB, 2 x 8GB, DDR5, 4800MHz, Non-ECC,

Dual-channel

32GB, 1 x 32GB, DDR5, 4800MHz, Non-ECC,

Single-channel

32GB, 2 x 16GB, DDR5, 4800MHz, Non-ECC, Dual-channel

64GB, 2 x 32GB, DDR5, 4800MHz, Non-ECC,

Dual-channel

PRIMARY HARD DISK DRIVE16,19

2.5-inch, 1TB, 5400RPM, SATA, HDD 2.5-inch, 2TB, 5400RPM, SATA, HDD 2.5-inch, 500GB, 7200RPM, SATA, HDD

2.5-inch, 1TB, 7200RPM, SATA, HDD

2.5-inch, 500GB, 7200RPM, SATA, HDD, Self-Encrypting,

Opal 2.0, FIPS

3.5-inch, 500GB, 7200RPM, SATA, HDD 3.5-inch, 1TB, 7200RPM, SATA, HDD 3.5-inch, 2TB, 7200RPM, SATA, HDD

M.2 2280, 512GB, PCIe NVMe Gen3 x4, Class 40 SSD M.2 2280, 512GB, PCIe NVMe Gen3 x4, Class 40 SSD M.2 2280, 512GB, PCIe NVMe Gen3 x4, Class 40 SSD

M.2 2280, 1TB, PCIe NVMe Gen3 x4, Class 40 SSD M.2 2280, 1TB, PCIe NVMe Gen4 x4, Class 40 SSD

M.2 2280, 2TB, PCle NVMe Gen4 x4, Class 40 SSD M.2 2280, 4TB, PCIe NVMe, Gen 4 x4 Class 40 SSD M.2 2280, 256GB, PCIe NVMe Gen3 x4, Class 40 SSD,

self-encrypting drive

M.2 2280, 512GB, PCle 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 Gen3 x4, Class 50 SSD M.2 2280, 1TB, PCIe NVMe Gen3 x4, Class 50 SSD

GRAPHICS

Intel® UHD Graphics 730

Intel® UHD Graphics 770

NVIDIA® T400, 2GB GDDR6, low profile NVIDIA® T600, 4GB GDDR6, low profile

NVIDIA® T1000, 4GB GDDR6, low profile NVIDIA® RTX™ A2000, 8GB GDDR6, low profile AMD Radeon™ Pro® WX3200 LP, 4GB GDDR6, low profile

DISPLAY

Dell Collaboration 24 USB-C Hub Monitor - C2422HE (SOLD SEPARATELY)

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 SW16

Microsoft Office 30-day trial Microsoft Office Professional 2021 Microsoft Office Home and Business 2021 Dell Client Command Suite (DCCS) Dell Optimizer for Precision

Dell PremierColor

SECURITY¹⁶

Certificate Based Authentication (CBA)/Authenticated BIOS Interface (ABI) McAfee® Small Business Security 30-day free trial

Dell Encryption Personal

FEATURE TECHNICAL SPECIFICATION

Dell Encryption Enterprise
Dell Encryption External Media

Dell Data Protection | Bitlocker Manager (DDP | BLM)

Dell Trusted Device (SafeBIOS)
Digital Device Identity and Secured Component Verification

Secure BIOS Baseline Secured-core PC

Support Assist for PCs

Support Assist OS Recovery (Excalibur)

WARRANTY^{20,21}

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

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-vear Accidental Damage Service 2-year Accidental Damage Service

3-year Accidental Damage Service

4-vear Accidental Damage Service

5-year Accidental Damage Service

KEYBOARD¹⁶

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

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 SD 4.0 card slot (optional) Half-height Gen 4 PCle x16 slot Half-height Gen 3 PCle 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.)

MUITIMEDIA16

(SOLD SEPARATELY IN MOST CASES)

Realtek Audio Controller - ALC3246-CG Dell Slim Soundbar - SB521A Dell Pro Stereo Headset - UC350 Dell Pro Stereo Soundbar - AE515M

PRECISION

3460 SFF

FEATURE TECHNICAL SPECIFICATION

CONNECTIVITY OPTIONS 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

POWER OPTIONS

260W internal power supply unit, 85% efficient PSU, 80

Plus Bronze

300W internal power supply unit, 92% Efficient PSU, 80

Plus Platinum

REGULATORY AND ENVIRONMENTAL COMPLIANCE^{22,23}

Product Safety, EMC and Environmental Datasheets

Dell Regulatory Compliance Home Page Dell and the Environment

CHIPSET Intel® W680

HARDWARE SECURITY

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

SYSTEMS MANAGEMENT

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)

STORAGE CONTROLLER

Intel Rapid Storage Technology Intel Management Engine (ME) 12.0 or later

ADD-IN CARDS

Serial port PCle low profile card Parallel port PCle low profile card USB 3.2 Type-C® PCle card CAC/PIV module

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 bioplastic¹³.

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 products¹⁴

(→) EPEAT

16

TCO 8 certified configurations

(→) тсо

8.0

ENERGY STAR® throughout the portfolio

→ ENERGY STAR®

- * 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.
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- 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 for registration status by country.
- 15 (webcam Page 6) Lorem...
- 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.
- 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.
- 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) 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 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.

