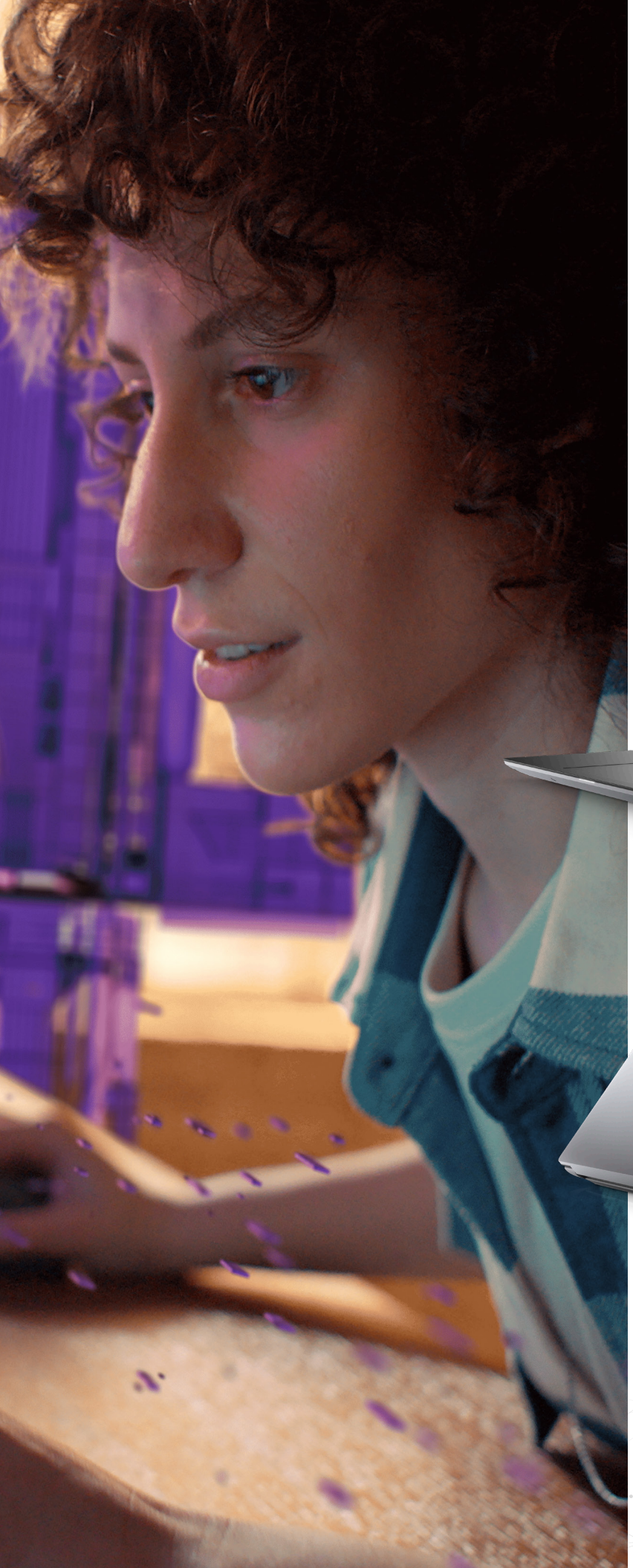


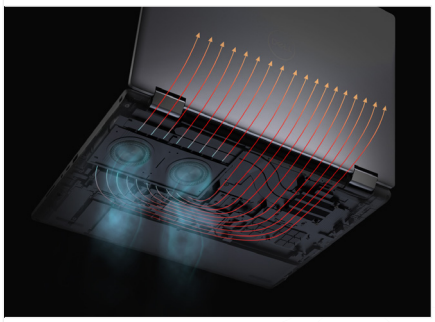
PRECISION
5680

Where the
magic happens

PRECISION 5680

Your next great work starts here.

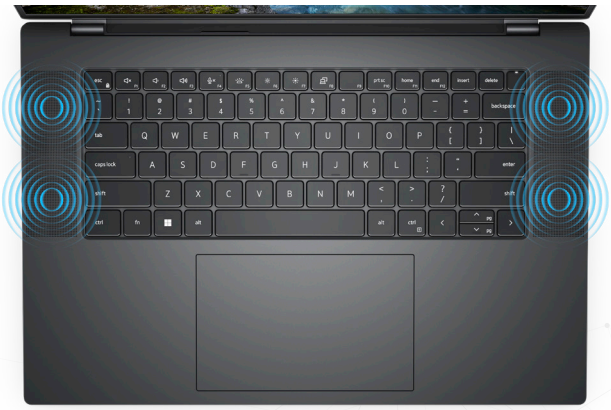
The smallest footprint 16” workstation with AI-based optimization[15]



Advanced Thermals

(Illustration only, not 5680)

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



Dell Optimizer for Precision

Intelligent Audio
ExpressSign-in
ExpressConnect
ExpressCharge
ExpressResponse
Reporting & Analytics

ISV certified

Starting at 4.06lbs / 1.84kg

PRECISION

5680

Intelligent performance

Up to Intel Core i9, 14 Core (6P + 8E) (45W), vPro options, up to 16GB NVIDIA RTX 5000 Ada graphics, Gen4 M.2 SSD (4TB), RAID support, upto 64GB of DDR5 memory, upto 6400 MHz, (2) Thunderbolt 4 (with power-in), Type C USB 4, HDMI

Dell Optimizer for Precision

Extended Power Range to provide 165W on standard USB-C connector

Immersive productivity and design

Backlit keyboard, Large touchpad

16", 16:10 3-sided InfinityEdge display, up to UHD+, 100% DCI-P3, 400nits, PremierColor, with ComfortView Plus, Touch options

Intel WiFi 6E AX211/BT5.3/vPro, Active steering antennae

Advanced thermals

Mission critical reliability and security

ISV Certifications

MIL-STD tested

Long battery life with up to 6-cell battery, 99Whr

Proximity sensor
Chassis intrusion sensor

ProSupport - on-site service available

Dell Optimizer
We make it intelligent. You make it yours.

In a work-from-anywhere world, powering the world's most intelligent business PCs* is not enough, Dell Optimizer is extending personalized intelligence to the rest of the Dell ecosystem.

Dell Optimizer lets you accomplish anything with built-in intelligence that learns and adapts to the way you work.

Elevate your work on the field with personalized performance extending from your Precision Mobile Workstation to the other Dell devices you use.

An intelligent ecosystem
Enjoy easy pairing and management of your Dell monitors and accessories with the integration of Dell Display Manager and Dell Peripheral Manager.

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

Improved app performance
ExpressResponse analyzes how you use your preferred apps to boost performance.

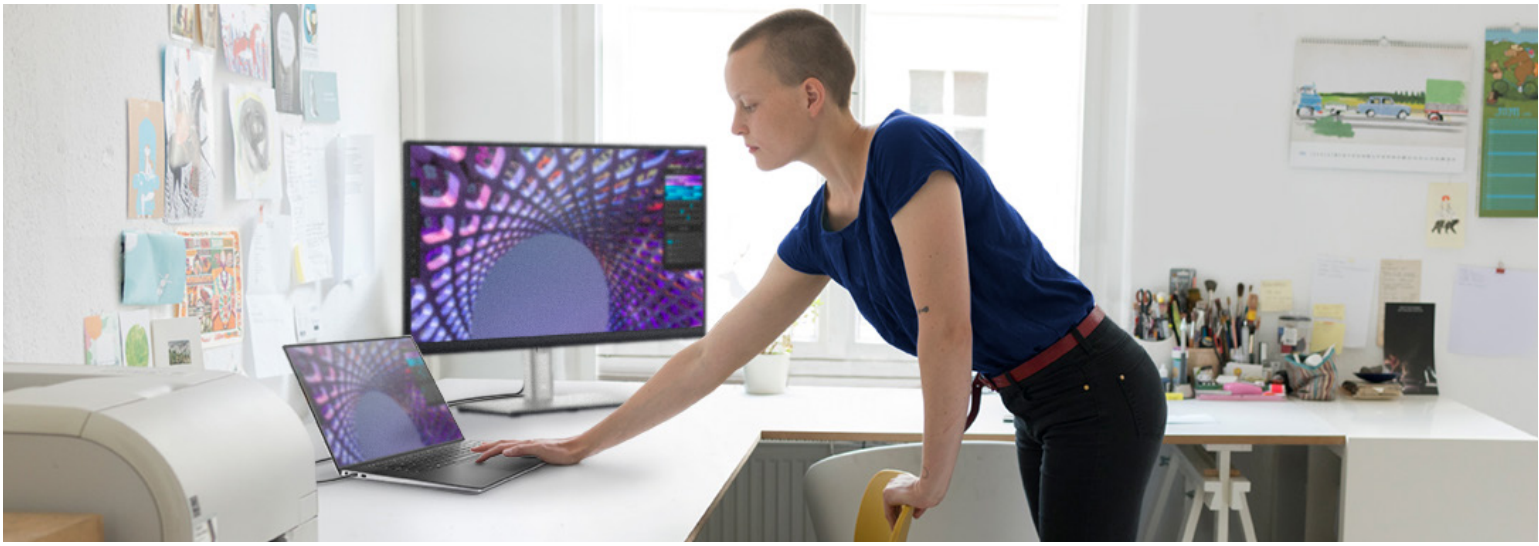
Be heard in the field
In busy, noisy environments, Intelligent Audio delivers sound and mic enhancements and reduces background noise using neural noise cancellation and voice isolation technology.

Simplified manageability
Elevate work experience with an easy-to-manage application that provides a seamless experience for both end-users and IT decision-makers.

Unmatched connectivity
ExpressConnect provides the world's first simultaneous multi-network connection* that joins the best network available and provides faster download speeds.

With Dell Optimizer, optimization and data collection follow a stringent process to ensure your privacy and security.

Click here to learn more about Dell Optimizer.



RECOMMENDED ACCESSORIES

AT THE DESK / ON THE GO

Dell Premier Rechargeable Mouse - MS900

This premium mouse was designed with incredible detail to be extremely comfortable and easy to use with its sculpted curves, innovative scroll wheel and powerful battery. It even works on glass.

Dell Premier Collaboration Keyboard - KB900

World's 1st collaboration keyboard with dedicated Zoom touch controls for effortless one-touch controls on Zoom calls.

Dell Performance Dock - WD19DCS

Boost your PC's power with up to 210W on Dell's most powerful dock. 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 Mobile Adapter Speakerphone - MH3021P

Multiport adapter with integrated speakerphone offers an all-in-one connectivity and conferencing solution.

Dell EcoLoop Pro Briefcase - CC5623

Designed for on-the-go productivity and protection, the Dell EcoLoop Pro Briefcase is made of eco-conscious material to complement any lifestyle.

CREATIVE ACCESSORIES

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.

Dell UltraSharp 34 Curved USB-C Hub Monitor - U3423WE

Get immersive productivity on a 34" WQHD curved monitor with a wide color coverage and extensive connectivity including RJ45, USB-C and quick-access front ports.

Dell UltraSharp 27 4K PremierColor Monitor - UP2720Q

Create on your terms with the world's first 27" 4K monitor with built-in colorimeter and Thunderbolt™ 3.

PRECISION 5680

FEATURE	TECHNICAL SPECIFICATION
MODEL NUMBER	Precision 5680
PROCESSOR OPTIONS	13th Gen Intel Core i5-13600H vPro, 18 MB cache, 12 cores, 24 threads, 2.70 GHz to 4.50 GHz, 45W 13th Gen Intel Core i7-13700H non-vPro Essentials, 24 MB cache, 14 cores, 28 threads, 2.30 GHz to 4.70 GHz, 45W 13th Gen Intel Core i7-13800H vPro, 24 MB cache, 14 cores, 28 threads, 2.40 GHz to 4.50 GHz, 45W 13th Gen Intel Core i9-13900H vPro, 24 MB cache, 14 cores, 28 threads, 2.50 GHz to 5.00 GHz, 45W
OPERATING SYSTEM	Windows 11 Home, 64-bit Windows 11 Pro, 64-bit Win 11 Pro DGR Ubuntu 20.04 RHEL
MEMORY OPTIONS	16 GB, 6400 MHz, DDR5, Non-ECC SoDIMM memory 32 GB, 6000Hz, DDR5, Non-ECC SoDIMM memory 64 GB, 6000Hz, DDR5, Non-ECC SoDIMM memory
GRAPHIC	NVIDIA RTX A1000 Generation, DDR6, 6GB memory Intel Integrated Graphics UMA NVIDIA RTX 2000, Ada Generation DDR6 8GB memory NVIDIA RTX 3500 Ada Generation DDR6 12GB memory NVIDIA RTX 4000 Ada Generation DDR6,12 GB memory NVIDIA RTX 5000 Ada Generation DDR6,16 GB memory
INTEGRATED VIDEO CONTROLLER	Intel® Iris® Xe Graphics, USB Type-C port with DisplayPort Alt mode and Thunderbolt 4, Shared system memory, 13th Generation Intel Core i5/i7/i9
STORAGE OPTIONS	M.2 2230, 256GB, PCIe NVMe Gen4 x4, Class 35 SSD M.2 2280, 512 GB, 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 Gen4 x4, Class 40 SSD, self-encrypting drive M.2 2280, 1TB, PCIe NVMe Gen4 x4, Class 40 SSD, self-encrypting drive
MEDIA-CARD READER	Secure Digital (SD) Secure Digital High Capacity (SDHC) Secure Digital Extended Capacity (SDXC)
FINGERPRINT READER	Sensor resolution: 500DPI
DIMENSIONS & WEIGHT	Front: 7.7mm, (.30in) Rear: 11.65mm, (0.46in) Width: 344.4mm, (13.6in) Depth: 230.3mm, (9in) Weight (minimum): 1.99kg, (4.49lbs)
TOUCHPAD	Resolution: Horizontal 1770, Vertical 1039 Dimensions: Horizontal 150.9mm, Vertical 90mm
AUDIO	Dual array microphones 4x speakers (grade A)
WIRELESS	Intel® AX211, 2x2 MIMO, 2400 Mbps, 2.40GHz/5GHz Intel Wifi 6E (6GHz) AX211 2x2 with Bluetooth Wireless Intel Wifi 6E (6GHz) AX211, No BT 64-bit/128-bit WEP AES-CCMP TKIP Bluetooth® 5.3

FEATURE	TECHNICAL SPECIFICATION
BATTERY OPTIONS	4-cell (66Whr) or 6-cell (99.5Whr) Lithium-Ion polymer battery with Express Charge Boost Long life cycle battery option
DISPLAY OPTIONS	16" FHD+ non-touch, 1920 x 1080, 60Hz, 500 nits WLED, 100% sRGB, Low BL w/ IR Cam 16" OLED touch, 3840 x 2400, 60Hz, 400 nits WLED, Adobe 100% min and DCI-P3 99% typ,99%min w/ IR Cam
KEYBOARD	Spill resistant Backlit keyboard
POWER OPTIONS	90W UMA Height: 22mm Width: 66mm Depth: 130mm Input voltage (maximum): 240VAC Input voltage (minimum): 100VAC Input frequency maximum): 60Hz Input frequency (minimum): 50Hz Input current (maximum): 1.5A Output current (continuous) 4.5A Rated Output Voltage: 20VDC 130W Discrete & UMA Height: 22mm Width: 66mm Depth: 130mm Input voltage (maximum): 240VAC Input voltage (minimum): 100VAC Input frequency maximum): 60Hz Input frequency (minimum): 50Hz Input current (maximum): 1.8A Output current (continuous) 6.5A Rated Output Voltage: 20VDC
CAMERA	FHD RGB IR camera, Clover Falls+ presence detection sensor, ambient light sensor, Windows Hello compliance No camera/mic option for FED (FHD panel only)
PORTS AND SLOTS	(2) ThunderBolt™ 4 ports with PowerDelivery USB Type-C™/ Display port alt Universal audio jack SD-card slot Wedge-shaped lock slot HDMI 2.0 Also ships with a Dongle with USB Type A

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[1]:

- Bioplastic
- Bio-based rubber
- Ocean-bound plastic
- Reclaimed carbon fiber
- Post-consumer recycled plastic

1st

Precision 5680 is the first Precision Mobile workstation to use low carbon emissions and recycled aluminum[2] in its chassis.

100%

New Precision Mobile Workstations ship in packaging made from 100% recycled or renewable materials and is 100% recyclable[3].

Ecolabels

30+

EPEAT Gold registered products

EPEAT

8.0

ENERGY STAR 8.0 throughout

ENERGY STAR®

Data as of February 2023

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

2 Based on internal analysis, March 2023

3 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 for registration status by country.

15 Based on analysis of Dell 16" mobile workstation 5680 vs HP Zbook Studio G9, Lenovo Gen4 and Apple Macbook Pro 16, Feb 2023.