



PRECISION

# 5680

Where the  
magic happens



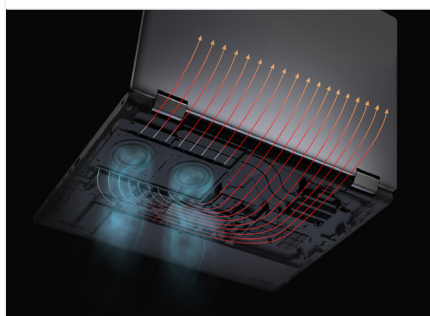
**DELL** Technologies



# 5680

Your next great work starts here.

The smallest footprint 16" workstation with AI-based optimization<sup>15</sup>



### Advanced Thermals

(Illustration only, not 5680)

- User Selectable Thermals Tables (USTT)
- Dual Opposing Output (DOO) fan with Turbo blades & vapor chamber
- Dual intake venting
- Thermal insulated material, GORE™



### Dell Optimizer for Precision

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

ISV certified

Starting at 4.46lbs / 1.99Kg



# 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 (8TB), RAID support, up to 64GB of LPDDR5 memory, up to 6400MT/s, (2) Thunderbolt 4 (with power-in), Type C USB 4, HDMI  
 ...  
 Dell Optimizer for Precision  
 ...  
 Extended Power Range to provide 100W on standard USB-C connector



### Immersive productivity and design

Backlit keyboard, Large touchpad  
 ...  
 16", 16:10 3-sided InfinityEdge display, up to UHD+OLED, 100% DCI-P3, 400nits, PremierColor, with ComfortView Plus, Touch options  
 ...  
 Intel® AX211 WiFi 6E and Bluetooth® 5.3 wireless card  
 ...  
 Advanced thermals



### Mission critical reliability and security

ISV Certifications  
 ...  
 MIL-STD tested  
 ...  
 Long battery life with up to 6-cell battery, 99.5Whr  
 ...  
 User Presence Detection  
 Chassis intrusion sensor  
 ...  
 ProSupport - on-site service available



# PRECISION 5680

DELL OPTIMIZER

## 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.

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.](#)



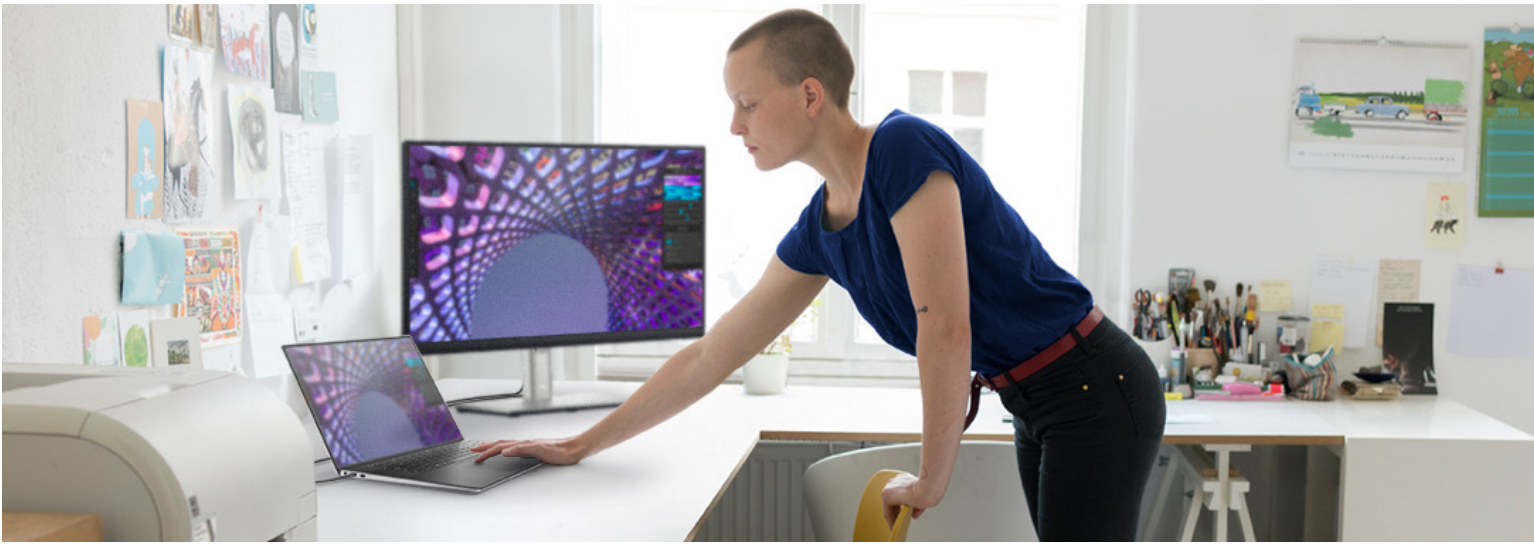
### Simplified manageability

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.



## 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

<b>MODEL NUMBER</b>	Precision 5680
<b>PROCESSOR OPTIONS</b>	13 <sup>th</sup> Gen Intel Core i5-13600H vPro, 18 MB cache, 12 cores, 24 threads, 2.70 GHz to 4.50 GHz, 45W 13 <sup>th</sup> Gen Intel Core i7-13700H non-vPro Essentials, 24 MB cache, 14 cores, 28 threads, 3.70 GHz to 5.0 GHz, 45W 13 <sup>th</sup> Gen Intel Core i7-13800H vPro, 24 MB cache, 14 cores, 28 threads, 4.0 GHz to 5.20 GHz, 45W 13 <sup>th</sup> Gen Intel Core i9-13900H vPro, 24 MB cache, 14 cores, 28 threads, 4.10 GHz to 5.40 GHz, 45W
<b>OPERATING SYSTEM</b>	Windows 11 Home, 64-bit Windows 11 Pro, 64-bit Win 11 Pro with Win 10 downgrade option Ubuntu 22.04 RHEL
<b>MEMORY OPTIONS</b>	16GB, 6400MT/s, LPDDR5x, Soldered Memory 32GB, 6000MT/s, LPDDR5x, Soldered Memory 64 GB, 6000 MT/s, LPDDR5x, Soldered Memory
<b>GRAPHIC</b>	Intel Integrated Graphics UMA Intel Arc Pro A60M NVIDIA RTX A1000, DDR6, 6GB memory 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 NVIDIA GeForce RTX 4090 GPU 16 GB
<b>INTEGRATED VIDEO CONTROLLER</b>	Intel® Iris® Xe Graphics, USB Type-C port with DisplayPort Alt mode and Thunderbolt 4, Shared system memory, 13 <sup>th</sup> Generation Intel Core i5/i7/i9
<b>STORAGE OPTIONS</b>	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
<b>MEDIA-CARD READER</b>	Secure Digital (SD) Secure Digital High Capacity (SDHC) Secure Digital Extended Capacity (SDXC)
<b>FINGERPRINT READER</b>	Sensor resolution: 500DPI
<b>DIMENSIONS &amp; WEIGHT</b>	Front: 20.5mm, (.80in) without rubber foot, 26.17 with foot Rear: 22.17mm, (0.87in) without rubber foot, 26.17mm with foot Width: 353.68mm, (13.92in) Depth: 240.33mm, (9.46 in) Weight (minimum): 1.91Kg, (4.20lbs) [with 4-cell battery]
<b>TOUCHPAD</b>	Resolution: Horizontal 1770, Vertical 1039 Dimensions: Horizontal 150.9mm, Vertical 90mm
<b>AUDIO</b>	Dual array microphones 4x speakers (grade A)
<b>WIRELESS</b>	Intel® AX211 WiFi 6E and Bluetooth® 5.3 wireless card
<b>BATTERY OPTIONS</b>	4-cell (66Whr) or 6-cell (99.5Whr) Lithium-Ion polymer battery with Express Charge Boost Long life cycle battery option
<b>DISPLAY OPTIONS</b>	16" FHD+ non-touch, 1920 x 1200, WVA, 60Hz, 500 nits WLED, Low BL w/ IR Cam, DCI-P3 100% 16" OLED touch, 3840 x 2400, 60Hz, WVA, 400 nits WLED, Adobe 100% min and DCI-P3 100% typ, 99% min w/ IR Cam
<b>KEYBOARD</b>	Spill resistant, backlit keyboard
<b>POWER OPTIONS</b>	100W UMA Height: 26mm Width: 60mm Depth: 122mm Input voltage (maximum): 240VAC  Input voltage (minimum): 100VAC Input frequency maximum): 60Hz Input frequency (minimum): 50Hz Input current (maximum): 1.7A Output current (continuous) 5A Rated Output Voltage: 20VDC

## FEATURE TECHNICAL SPECIFICATION

<b>POWER OPTIONS</b>	165W Discrete & UMA Height: 22mm Width: 66mm Depth: 136mm Input voltage (maximum): 240VAC Input voltage (minimum): 100VAC Input frequency maximum): 60Hz Input frequency (minimum): 50Hz Input current (maximum): 2.2A Output current (continuous) 5.89A Rated Output Voltage: 28VDC
<b>CAMERA</b>	FHD RGB IR camera, Clover Falls+ presence detection sensor, ambient light sensor, Windows Hello compliance  No camera/mic option for FED (FHD panel only)
<b>PORTS AND SLOTS</b>	(2) ThunderBolt™ 4 ports with PowerDelivery USB Type-C™/ Display port alt Universal audio jack SD-card slot Wedge-shaped lock slot Optional Smart Card Reader 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<sup>1</sup>:

- 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<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



➔ EPEAT

8.0

ENERGY STAR 8.0 throughout



➔ ENERGY STAR®

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.

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\* 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.

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