



# Compact, yet so powerful.

Dell Precision 3280 CFF

Precision 3280 is the world's smallest workstation which supports Tensor Core GPUs.\*

# Optimized performance for tight workspaces.



## Exceptional performance

Maximize space with exceptional performance with up to Intel® Core™ i9, NVIDIA RTX™ 4000 SFF Ada (70W) graphics, 64GB of DDR5 memory and up to 8TB of RAID capable storage.

## Mission critical reliability

All Dell Precision workstations are tested and certified by independent software vendors to ensure reliable performance. Experience the peace-of-mind knowing your workstation will run the applications, as promised.

## Advanced security

Reduce the attack surface of your fleet with the industry's most secure commercial PCs\*. Rigorous supply chain controls ensure PCs are secure from first boot, while unmatched hardware security keeps devices protected in-use.

# Great for constrained workspaces, edge computing and even in the data center with several mounting options and Rack Shelf solution.

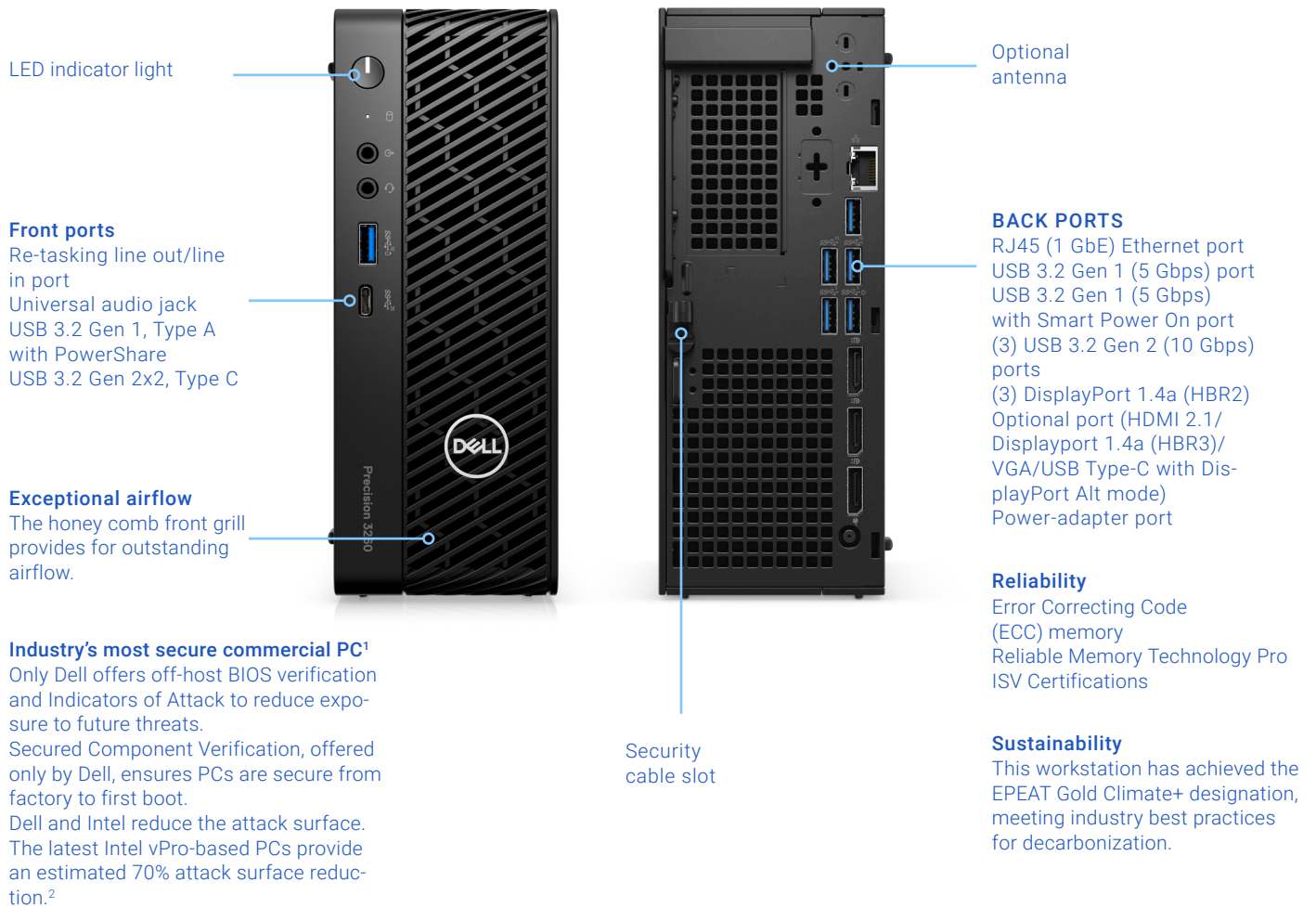
## Intelligent Performance

Up to 14<sup>th</sup> Gen Intel® Core™ i9 processors (enhanced performance)  
 Up to NVIDIA RTX™ 4000 SFF Ada graphics  
 Up to 64GB of DDR5 memory  
 Up to 8TB storage (RAID capable)

Dell Optimizer for Precision AI-based software that learns how you work to optimize the performance of your workstation.

## Secure your workspace with layers of security

Off-host BIOS and firmware verification  
 Lockable chassis with intrusion detection  
 Self-encrypting drive  
 Security cable slot  
 Dedicated security chip for storing and processing end-user credentials with TPM 2.0 / ControlVault



▶ [Click here to see the 360 view of the Precision 3280 CFF](#)

<sup>1</sup> Based on Dell internal analysis, September 2023. Applicable to PCs on Intel processors. Not all features available with all PCs. Additional purchase required for some features.

<sup>2</sup> The latest Intel vPro based PCs provide an estimated 70% attack surface reduction compared to four-year-old devices. Based on IOActive's "Intel vPro 13th Gen Attack Surface Study" published March 2023 (commissioned by Intel), which evaluates Intel vPro devices powered by 13th Gen Intel Core processors against four-year-old Intel-based PCs on Windows OS. Details at [www.intel.com/performance-vpro](http://www.intel.com/performance-vpro). Results may vary.

# Dell Optimizer for Precision

Dell Optimizer is our AI-based optimization software that learns and responds to the way you work, designed to automatically improve application and device performance, PC and accessory battery run-time, audio/video settings and privacy – all in the background while you're working.



## Get up to 18% in power savings<sup>1</sup>

Save energy without sacrificing performance for ultimate efficiency with Power Optimization. Achieve power savings when you set your PC to Quiet Mode on your thermal management settings – giving you up to 2.4 watts of power savings compared to default mode.<sup>1</sup>

## Enhance application speed

Experience a boost in performance of your foreground application when running multiple programs simultaneously with Application Optimization.

## Experience 2x faster network performance<sup>2</sup>

Network Optimization provides the world's first simultaneous multi-network connection for faster data and video downloads<sup>3</sup>, and joins the best network<sup>4</sup> available.

## Up-level audio for a better collaboration experience

Intelligent Audio senses your surroundings and improves the conferencing experience by removing unwanted sounds, alerts you when your voice quality is poor, and provides a better collaboration experience for you and all call participants.

## Access personalized insights

Our Analytics feature monitors the utilization of your PC by analyzing your system's battery, storage, CPU and memory behavior to review your system's reliability and problem history, so you can identify bottlenecks quickly.

## 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.

▶ [Click here to learn more about Dell Optimizer](#)

1. This is based on a Dell internal study, testing power and performance within our Dell Optimizer power module. White paper published November 2022 <https://www.delltechnologies.com/asset/en-us/solutions/business-solutions/industry-market/maximizing-power-efficiency-with-dell-optimizer-a-case-study.pdf>

2. Based on A Principled Technologies Report commissioned by Dell that ran PC performance benchmarks on Dell Latitude 9430 laptops and OptiPlex 7400 all-in-one desktop PCs: Improve PC app performance, battery charging, and end-user experiences with Dell Optimizer, June 2023

3. 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 wired or wireless connections. Based on Dell internal analysis

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

# Simplify IT

Our most secure<sup>1</sup> and most manageable<sup>6</sup> offerings make IT management a breeze

## SECURITY

Improve fleet-wide security with multiple layers of defense

Reduce the attack surface and enhance long-term cyber resilience with [Dell Trusted Workspace](#)

Dell offers the industry's most secure commercial PCs<sup>1</sup> with protections competitors cannot match:



### Be secure from first boot

Rigorous, state-of-the-art supply chain controls and Dell-unique Secured Component Verification reduce the risk of product tampering.



### Spot ticking timebombs

Early-alert feature Indicators of Attack, offered only by Dell, scans for behavior-based threats.



### Stay protected from evolving threats

Only Dell offers off-host BIOS and firmware verification, providing greater security than other PCs. The latest Intel vPro<sup>®</sup>-based PCs provide an estimated 70% attack surface reduction.<sup>5</sup>

Layer on advanced threat protection with software from our ecosystem of best-of-breed partners.

Only Dell integrates device telemetry<sup>1</sup> with industry-leading software to improve fleet-wide security.<sup>4</sup>

[Learn More >](#)

## MANAGEABILITY

Manage your fleet of PCs - reliably and easily

Help secure and optimize your endpoints and deliver end-user productivity with [Dell Manageability Solutions](#)

[Dell Trusted Update Experience](#) makes it simple to update endpoints, packing the latest BIOS, driver, and firmware version. Dell is the only Top-5 PC vendor that:



### Publishes<sup>2</sup> a device drivers and downloads release schedule:

IT Admins can deploy fleet-wide device updates on a predictable timeline.



### Performs<sup>3</sup> integrated validation of all driver and BIOS modules in an update:

IT Admins can expect a trusted, system compatible update deployment, across a fleet of devices.



### Dell has the industry's first:<sup>6</sup>

- Binary Large Object (BLOB) package-based solution using Microsoft Intune
- Systems Management Solution to integrate with Workspace ONE
- Hardware OEM systems management solution to integrate with Intel vPro<sup>®</sup>

[Learn More >](#)



# Sustainability on Dell Precision 3280 CFF

Delivering innovative technology and solutions to collectively lower our environmental impact.

## Built with sustainable materials

This Precision workstation is designed with 58% recycled plastic including post-consumer recycled plastic and closed loop plastic and ITE-derived plastic.<sup>1</sup>

Adapter configurations are available with 95% post-consumer recycled plastic in the case and AC inlet and 98% recycled aluminum in the thermal shielding or heat sink.<sup>2</sup>

## Low impact packaging

Ships in packaging made with 98.4% recycled or renewable materials.<sup>3</sup> Multi-pack options are available to lower packaging and transportation waste.<sup>4</sup>

## Lifecycle Management

Dell APEX offerings and Asset Recovery Services make it easier for our customers to modernize responsibly, and reduce over-provisioning and e-waste, on schedule and within budget. Dell makes it easy to access and replace parts to get the most life out of our products.

## Environmental Certifications & Registrations

This workstation is Certified ENERGY STAR® 8.0, TCO certified, generation 9 and EPEAT gold registered with Climate+ designation.<sup>5</sup>



[Learn more.](#)

See how we are reducing the impact of our products and solutions [Dell.com/Sustainable-Devices](https://www.dell.com/Sustainable-Devices)

<sup>1</sup> Percentage is based on system plastic weight and may vary by model. Based on internal analysis, January 2024. Post-consumer recycled plastic: 46.4%, Closed loop ITE derived plastic: 11.8% ITE derived post-consumer recycled plastic: Materials that are derived from discarded products listed under IT and Telecommunications Equipment category in Annex II, Part 3 of EU Directive 2012/19/EU (the WEEE Directive)<sup>40</sup> and televisions.

<sup>2</sup> Based on internal analysis, February 2024

<sup>3</sup> Applies to DAO. Contains 66.6 % recycled content and at least 31.8% renewable materials. Renewable materials in the form of sustainably forested fibers. Percentages may vary slightly by region. Excludes optional items added to order and included in box.

<sup>4</sup> Based on internal analysis, January 2024

<sup>5</sup> Based on internal analysis, January 2024. Based on EPEAT Climate+ Designations achieved in all applicable countries. EPEAT registered where applicable. EPEAT registration varies by country. See [www.epeat.net](https://www.epeat.net) for registration status and tier levels.

# Recommended Accessories

Designed, tested and certified to work seamlessly together with Dell systems. We offer full productivity and collaboration solutions as well as mounting kits and Rack Shelf for the data center.



**Dell UltraSharp 27 4K  
USB-C Hub Monitor | U2723QE**

Be your most productive on a 27 inch monitor with brilliant color and contrast that features the industry's first IPS Black technology and a connectivity hub.<sup>1</sup>



**Precision All-in-One Display and  
Stand | CFS25**

Mount your Precision on the All-in-One Display and Stand to save space.



**Dell Dual Monitor Arm | MDA20**

Quickly install this Dell Dual Monitor Arm – MDA20 for a comprehensive monitor and system mounting solution.



**Dell UltraSharp Webcam | WB7022**

Elevate your video conferencing experience on this powerful, intelligent 4K webcam that optimizes your visuals with a large 4K Sony STARVIS™ CMOS sensor and AI Auto-Framing.



**Hypershelf for Precision 3280**

Load up to (7) Precision 3280 CFFs into this custom made (5U) Hypershelf which easily slides into a rack, keeping your IP secure in the data center.



**Dell Pro Wireless Keyboard and Mouse |  
KM5221W**

Combining a discreetly powerful keyboard with an expertly designed mouse, the Dell Pro Wireless Keyboard and Mouse combo enhances your productivity. Powered by one of the industry's leading battery lives of up to 36 months.



**HTC VIVE Pro 2 | Virtual Reality Headset**

Next-level graphics and sound for riveting PC-VR. Purposeful and pragmatic ergonomics delivers smooth and comfortable immersion.



**3Dconnexion SpaceMouse Enterprise |  
3DX-700056**

Create an unequalled 3D navigation experience with the most ergonomically designed product 3Dconnexion has ever created.



**Dell Wireless Headset | WL3024**

Experience clear communication with this wireless AI-based noise cancellation headset, designed with a focus on productivity and comfort for all-day conferencing.

► [Explore solutions for the Future of Work](#)

1. Based on Dell analysis of comparable monitors, June 2020.

2. Based on Dell analysis of publically available data, July 2020.

3. Most intelligent\* based on the Dell Slim Conferencing Soundbar being the only Microsoft Teams certified soundbar with AI noise-cancellation. Based on comparative analysis of Microsoft Teams-certified soundbars – August, 2022

4. Based on Dell analysis of battery life usage model calculations, Nov. 2020. Results may vary based on usage and conditions.

# Legacy, scale and innovation

Dell Technologies is your trusted partner for the future of work

## Dell Technologies APEX

### 1st

and most comprehensive<sup>1</sup>  
As-a-service portfolio that spans from multi-cloud to client devices.

Experience the flexibility to transform your IT and deploy the latest technologies at predictable costs.

### Dell APEX PC-as-a-Service

Fully customizable subscription covers everything - devices, software and services; available from one-to-five-year terms.

### Dell APEX Managed Device Service

Fully managed, subscription with a team of IT experts to keep business devices up-to-date and secure; and no year-long commitment (US only).

[Learn more>](#)

## Asset Recovery Services

### 2.6B

Pounds of electronics recovered since 2007<sup>6</sup>  
Let Dell help you securely and responsibly retire your old IT equipment - regardless of brand - to allow for a seamless transition from old to new technology, while protecting both your business and the planet.

[Learn more>](#)

## AI-driven support services

### 36TB

Telemetry data processed per day<sup>2</sup>  
Evolving with you, using machine learning and an AI engine that learns fast. Trust Dell Technologies to deliver hyper-efficient, automated IT support, drawn from decades of AI experience and top-ranked services.

[Learn more>](#)

## ProDeploy Client Suite for PCs

### 30K+

PC's configured daily<sup>3</sup>  
For organizations of any size, find the right-sized deployment solution to solve an array of IT needs.

35 years of deployment expertise from Dell ensures seamless experiences for configuration, imaging, and provisioning; as well as asset tagging and warehousing.

[Learn more>](#)

Modern Lifecycle Solutions

## ProSupport Suite for PCs

### 641

Hours of admin time saved per year<sup>4</sup>  
With advanced telemetry and AI, IT teams can remotely manage the health of their Dell fleet, anticipate and resolve issues and automate PC updates.

[Learn more>](#)

## Dell Premier

### 297%

ROI over 4 years<sup>5</sup>  
Modernize IT purchasing by shopping your catalog in a tailored online solution. Gain control over the entire IT ecosystem to cut costs, standardize ordering, access analytics and more.

[Learn more>](#)



FEATURE	TECHNICAL SPECIFICATION	FEATURE	TECHNICAL SPECIFICATION
<b>MODEL NUMBER<sup>1</sup></b>	Precision 3280 CFF		
<b>PROCESSOR OPTIONS<sup>1</sup></b>	Intel® Core™ i9 14 <sup>th</sup> Gen 14900 vPro® (36 MB cache, 24 cores, 32 threads, 2.0 GHz to 5.8 GHz Turbo, 65W) Intel® Core™ i7 14 <sup>th</sup> Gen 14700 vPro® (33 MB cache, 20 cores, 28 threads, 2.1 GHz to 5.4 GHz Turbo, 65W) Intel® Core™ i5 14 <sup>th</sup> Gen 14600 vPro® (24 MB cache, 14 cores, 20 threads, 2.7 GHz to 5.2 GHz Turbo, 65W) Intel® Core™ i5 14 <sup>th</sup> Gen 14500 vPro® (24 MB cache, 14 cores, 20 threads, 2.6 GHz to 5.0 GHz Turbo, 65W) Intel® Core™ i3 14 <sup>th</sup> Gen 14100 (12 MB cache, 4 cores, 8 threads, 3.5 GHz to 4.7 GHz Turbo, 60W)	<b>PRIMARY HARD DISK DRIVE<sup>1,5</sup></b>	256 GB, M.2 2280, Gen 4 PCIe NVMe, SSD, Class 35 512 GB, M.2 2280, Gen 4 PCIe NVMe, SSD, Class 40 1 TB, M.2 2280, Gen 4 PCIe NVMe, SSD, Class 40 2 TB, M.2 2280, Gen 4 PCIe NVMe, SSD, Class 40 512 GB, M.2 2280, Gen 4 PCIe NVMe, SSD, Self Encrypting Opal 2.0, Class 40 1 TB, M.2 2280, Gen 4 PCIe NVMe, SSD, Self Encrypting Opal 2.0, Class 40 4TB M.2 2280 Gen 4 PCIe NVMe, SSD, Class 40  Note: Section includes the Secondary storage for Precision 3280 CFF. Configuring the Secondary storage requires a separate heat sink kit to install.
<b>OPERATING SYSTEM<sup>1</sup></b>	Windows 11 Home Windows 11 Pro Windows 11 Pro National Academic Windows 11 Pro for Workstations Red Hat Linux® 8.4 Enterprise Ubuntu® Linux® 22.04 LTS, 64-bit	<b>VIDEO CARD</b>	Intel® UHD Graphics 730 with 14 <sup>th</sup> Gen Intel® Core™ i3-14100 processor Intel® UHD Graphics 770 with 14 <sup>th</sup> Gen Intel® Core™ i5-14400 vPro®, i5-14500 vPro®, i5-14600 vPro®, i7-14700 vPro®, i9-14900 vPro® processors NVIDIA® RTX™ 4000 SFF Ada Generation, 20 GB GDDR6 NVIDIA® RTX™ 2000 Ada Generation, 16 GB GDDR6 NVIDIA® T1000, 8 GB GDDR6 NVIDIA® T400, 4 GB GDDR6  Note: Systems with Nvidia® T1000 (including kit) ship with an additional fan duct to improve the thermal performance. The fan duct occupies the x1 slot on the PCIe riser.
<b>MEMORY OPTIONS<sup>1,2,3</sup></b>	16 GB: 1 x 16 GB, DDR5, 5600 MT/s, ECC 32 GB: 2 x 16 GB, DDR5, 5600 MT/s, ECC, dual-channel 32 GB: 1 x 32 GB, DDR5, 5200 MT/s, ECC 64 GB: 2 x 32 GB, DDR5, 5200 MT/s, ECC, dual-channel 8 GB: 1 x 8 GB, DDR5, 5600 MT/s, Non-ECC 16 GB: 2 x 8 GB, DDR5, 5600 MT/s, Non-ECC, dual-channel 16 GB: 1 x 16 GB, DDR5, 5600 MT/s, Non-ECC 32 GB: 2 x 16 GB, DDR5, 5600 MT/s, Non-ECC, dual-channel 64 GB: 2 x 32 GB, DDR5, 5600 MT/s, Non-ECC, dual-channel	<b>CASE COLOR</b>	Dell Standard Black, Resin
<b>WARRANTY<sup>9,10</sup></b>	1Y Basic Hardware Warranty Service with Onsite Service after Remote Diagnosis 2Y Basic Warranty Extension 3Y Basic Warranty Extension 4Y Basic Warranty Extension 5Y Basic Warranty Extension 1Y ProSupport with Next Business Day Onsite service 2Y ProSupport with Next Business Day Onsite service 3Y ProSupport with Next Business Day Onsite service 4Y ProSupport with Next Business Day Onsite service 5Y ProSupport with Next Business Day Onsite service 1Y ProSupport Plus for Client with Next Business Day Onsite service 2Y ProSupport Plus for Client with Next Business Day Onsite service 3Y ProSupport Plus for Client with Next Business Day Onsite service 4Y ProSupport Plus for Client with Next Business Day Onsite service 5Y ProSupport Plus for Client with Next Business Day Onsite service	<b>ACCIDENTAL DAMAGE SERVICES</b>	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
<b>KEYBOARD<sup>1</sup></b>	No keyboard	<b>PORTS</b>	<b>Front:</b> USB 3.2 Gen 2x2 (20 Gbps) Capable Type-C® port (2) USB 3.2 Gen 2 (10 Gbps) with PowerShare ports Universal Audio port  <b>Rear:</b> RJ45 (1 GbE) Ethernet port USB 3.2 Gen 1 (5 Gbps) port USB 3.2 Gen 1 (5 Gbps) with Smart Power On port (3) USB 3.2 Gen 2 (10 Gbps) ports (3) DisplayPort 1.4a (HBR2) Optional port (HDMI 2.1/Displayport 1.4a (HBR3)/VGA/USB Type-C with DisplayPort Alt mode) Power-adaptor port
<b>OPTICAL DRIVE</b>	No optical drive	<b>SLOTS</b>	Kensington security-cable slot Padlock ring (2) PCIe x8 slot (x8 and x1 electrically) (2) M.2 2230/2280 Gen4 PCIe NVMe SSD M.2 2230 slot for WiFi and Bluetooth card
<b>DIMENSIONS</b>	Height: 8.11 in. (206 mm) Width: 3.12 in. (79.3 mm) Depth: 7.00 in. (178 mm) Weight (maximum): 5.59 lbs. (2.54 kg) Weight (minimum): 4.03 lbs. (1.83 kg)	<b>AUDIO N SPEAKERS<sup>1</sup></b>	Stereo speakers with Realtek ALC3204 Codec Audio Controller Internal speakers

FEATURE	TECHNICAL SPECIFICATION	FEATURE	TECHNICAL SPECIFICATION
<b>MODEL NUMBER<sup>1</sup></b>	Precision 3280 CFF		
<b>WIRELESS</b>	Qualcomm® Wi-Fi 6E WCN6856-DBS, 2x2, 802.11ax, MU-MIMO, Bluetooth® 5.3 wireless card Intel® Wi-Fi 6E AX211, 2x2, 802.11ax, MU-MIMO, Bluetooth® 5.3 wireless card	<b>CHASSIS</b>	Compact Form Factor (CFF)
<b>POWER</b>	180W AC adapter, 7.4mm barrel 280W AC adapter, 7.4mm barrel	<b>PRIMARY BATTERY</b>	N/A
<b>REGULATORY<sup>7,11</sup></b>	Product Safety, EMC and Environmental Datasheets Dell Regulatory Compliance Home Page Responsible Business Alliance Policy		

FEATURE	TECHNICAL SPECIFICATION	DESCRIPTION	
<b>MODEL NUMBER<sup>1</sup></b>	Precision 3280 CFF		
<b>HARDWARE &amp; FIRMWARE SECURITY (INCLUDED)</b>	Dell Trusted Device	Generates insights into the security state of a platform, monitoring changes to BIOS attributes, detecting possible tampering of BIOS firmware, and more.	
	Dell SafeBIOS	Verify the integrity of the BIOS with tamper detection and secure, off-host BIOS image capture.	
	Dell SafeBIOS Indicators of Attack	Scan for behavior-based threats for early detection by enabling telemetry integration with popular third-party security and endpoint management solutions. <i>Includes Microsoft Intune, Carbon Black Cloud, CrowdStrike, Splunk.</i>	
	Dell SafeBIOS Common Vulnerabilities & Exposures (CVE) Detection	Identify and address known BIOS vulnerabilities and patch devices swiftly. <i>*Available early 2024.</i>	
<b>HARDWARE &amp; FIRMWARE SECURITY (OPTIONAL)</b>	Dell SafeID	Secure end-user credentials. This unique hardware-based security solution provides a hardened and secure bank for storing and processing user credentials. Dependent on model. Credential security options may include: <ul style="list-style-type: none"> <li>Secure interaction with Imprivada for authenticating credentials on multi-user devices</li> <li>Finger Print Reader in Power Button tied to ControlVault 3</li> <li>ControlVault 3 Advanced Authentication with FIPS 140-2 Level 3 Certification</li> <li>Contacted Smart Card and ControlVault 3</li> <li>Contactless Smart Card, NFC, and ControlVault 3</li> <li>SED SSD NVMe, SSD and HDD (Opal and non-Opal) per SDL</li> <li>FIPS 201 Full Scan Finger Print Reader and ControlVault</li> <li>Trusted Platform Module (TPM) 2.0 discrete FIPS 140-2 certification for TPM</li> </ul>	
	Dell Secured Component Verification	Provides assurance that the device and its components remain secure from factory to first boot. On-device and cloud-based options available. Availability varies by region.	
	Tamper-evident packaging	Detect tampering with this supply chain assurance offering. Availability varies by region.	
	Hard drive wipes	Sanitize the hard drive in accordance with National Institute of Standards and Technology (NIST) guidelines with this supply chain assurance offering. Availability varies by region.	
	Dell SafeShutter	Ensure user privacy with webcam shutter.	
	Intel ME Verification	Verify the integrity of critical firmware using a secure off-host source. Requires Intel vPro.	
	Chassis intrusion switch	Remotely detects hardware tampering and is integrated with Dell SafeBIOS Indicators of Attack.	
	Kensington Security Slot™	Device locking option helps reduce the risk of a data breach. Standard slot that can be paired with a standard security cable lock. Spec varies by model: <ul style="list-style-type: none"> <li>Dell Fixed Workstations (Desktops): Kensington Security Slot™ (T-bar)</li> <li>Dell Laptops: Kensington Security Slot™ (Wedge)</li> </ul>	
	Fingerprint reader	Fingerprint reader in Power button tied to ControlVault 3+ secures end-user credentials.	
	OPAL drive / Self-encrypting drive (SED)	Hardware-based full disk encryption that protects user data without storing encryption keys in RAM where it can be accessed by malicious parties.	
	SPI Flash Tamper Detection Circuit	Detects and prevents tampering with BIOS SPI flash chips on the motherboard.	
	<b>SOFTWARE SECURITY (OPTIONAL)</b>	Dell SafeGuard & Response: CrowdStrike, Carbon Black, Secureworks	Threat detection and response/remediation.
		Dell SafeData: Absolute	Self-healing for applications and networks.
Dell SafeData: Netskope		Cloud and network data protection.	
	McAfee Business Protection	Simple, automated, all-in-one security made for small businesses.	



## Leading the industry in sustainable practices to reduce the environmental impact of our products and packaging.

Learn more: <https://www.dell.com/en-us/lp/dt/sustainable-devices>

FEATURE	TECHNICAL SPECIFICATION	DESCRIPTION
<b>SUSTAINABLE MATERIALS<sup>1</sup></b>	<p><b>Post-consumer recycled plastic (PCR) and closed loop ITE derived plastic - chasses</b> Closed loop ITE derived plastic:11.8% Post-consumer recycled plastic:46.4%</p> <p><b>Post-consumer recycled plastic (PCR) - power adapter</b> (180-Watt): 50% in adapter case (280-Watt) 95% in adapter case and AC inlet</p> <p><b>Recycled aluminum - power adapter</b> (280-Watt): 98% recycled aluminum in the adapter thermal shielding or heat sink</p> <p><b>Recycled and low emissions aluminum:</b>N/A</p> <p><b>Recycled copper - power adapter:</b>N/A</p> <p><b>Recycled ocean-bound plastic:</b>N/A</p> <p><b>Post-industrial recycled steel:</b> N/A</p> <p><b>Bio-based plastic:</b> N/A</p> <p><b>Reclaimed carbon fiber:</b> N/A</p> <p><b>Recycled cobalt:</b> N/A</p> <p><b>Recycled or renewable packaging materials</b> 98.4% recycled, renewable and recyclable packaging</p>	<p>Post-consumer recycled plastic is plastic waste generated by households, industrial, commercial or institutions repurposed in the desktop design. Closed loop plastic is reclaimed plastic from any disposed IT product repurposed in the desktop design.</p> <p>Recycling aluminum helps divert material from landfills, where it would otherwise contribute to the growing problem of waste disposal. Aluminum is durable and does not degrade during the recycling process, making it a material that can be recycled repeatedly.</p> <p>The combination of using low emissions aluminum which is aluminum derived from a hydropower source and recycled aluminum helps reduce the carbon footprint of the material by up to 90%</p> <p>Recycling copper helps preserve finite natural resources because it reduces the need for extensive mining and extraction of copper ore that is a more energy intensive process</p> <p>Ocean-bound plastic is collected within 50km (30mi) distance of an ocean coastline or major waterway that feeds into the ocean. Using ocean-bound plastic reduces the risk of endangering marine life and ecosystem with plastic waste.</p> <p>Incorporating recycled steel helps minimize the usage of virgin material and related mining activities, while re-purposing waste that would have ended up in landfills (Available for select OptiPlex tower configurations).</p> <p>Bio-based materials that are derived from non-petroleum-based biological resources. The bio-based plastic used in the lid and door is derived from tall-oil, a byproduct in the paper making process.</p> <p>Reclaimed carbon fiber is derived from waste generated in the production of carbon fiber for the aerospace industry. It is considered to be a pre-consumer recycled material.</p> <p>Majority of recycled cobalt used in PC batteries is sourced from the EV batteries and the remainder is sourced from consumer electronics. Virgin cobalt resources are fast depleting and using recycled cobalt helps build a circular economy. Using recycled cobalt is a less energy intensive process and produces lesser waste than mining virgin cobalt</p> <p>Using recycled or renewable materials lowers waste and helps lower environmental impact. Materials may include recycled content and/or renewable content, in the form of sustainably forested fibers.</p>
<b>ECO-LABELS<sup>1</sup></b>	<b>EPEAT Climate+™:</b> Yes	This is a product level designation for EPEAT-registered products which meet the industry's best climate criteria.
	<b>EPEAT</b> Gold	Meeting globally recognized eco-label certifications for sustainable IT, our customers can trust that Dell products adhere to the highest energy-efficiency specifications and other climate-related standards. Product registry: <a href="https://www.epeat.net/">https://www.epeat.net/</a>
	<b>TCO Certified, Gen 9:</b> Yes	TCO Certified is a leading sustainability certification for IT products, with a comprehensive system of up-to-date criteria and independent verification. Product registry: <a href="https://tcocertified.com/product-finder/">https://tcocertified.com/product-finder/</a>
	<b>Energy Star 8.0:</b> Yes	Energy Star 8.0 is a specification recognizing the most energy-efficient PC's, backed by Environmental Protection Agency (US).
<b>MULTI-PACK SHIPPING<sup>1</sup></b>	<b>Dell Multi-pack:</b> Yes	Dell Multi-pack offers a simpler, more efficient unboxing experience vs. single pack products, with less packaging waste and better pallet optimization for transportation.
<b>ASSET RECOVERY SERVICES<sup>6</sup></b>	<b>Asset Recovery Services:</b> Yes	Asset Recovery Services helps our customers resell, recycle or return-to-lease legacy IT equipment in a secure and sustainable manner, while unlocking value that can be put towards future innovation.
<b>GLOBAL COMPLIANCE</b>	US CEC MEPS compliant configurations available Australia and New Zealand MEPS compliant configurations available CEL WEEE Japan Energy Law South Korea E-standby EU RoHS China RoHS (available for all OptiPlex All-in-One configurations)	
<b>REGULATORY<sup>4,6</sup></b>	<a href="#">Product Safety, EMC and Environmental Datasheets</a> <a href="#">Dell Regulatory Compliance Home Page</a> <a href="#">Dell and the Environment</a> (available for all OptiPlex All-in-One configurations) Arsenic free, halogen free	

## Technotes

1. Offering may vary by region. Some items may be available after product introduction. For complete details, refer to the Owner's Manual published on [www.dell.com/support](http://www.dell.com/support).
2. System Memory and Graphics: Significant system memory may be used to support graphics, depending on system memory size and other factors.
3. 4GB or Greater System Memory Capability: A 64-bit operating system is required to support 4GB or more of system memory.
4. Particular versions of Microsoft Windows may not support the full Bluetooth 4.2 functionality
5. 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.
6. TPM is available in selected regions.
7. Please refer to [www.epeat.net](http://www.epeat.net) for specific country registration rating and participation.
8. 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).
9. Onsite 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.
10. Dell Services: Availability and terms of Dell Services vary by region. For more information, visit [www.dell.com/servicedescriptions](http://www.dell.com/servicedescriptions).
11. 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).