

DELL Technologies



Built for Power Users and light
design work



Precision 3590

Work anywhere with a light, powerful workstation.

An ultra-mobile workstation that is great for multi-tasking across collaboration, business, and office applications.

Intelligent performance

Intel Core Ultra processors, 15W or 28W, up to 16 cores with vPro Enterprise options featuring integrated Intel Arc graphics and AI Boost technology.
Up to NVIDIA RTX 500 Ada Gen graphics.
Up to 64GB of 5600 MT/s DDR5 memory
Up to 4TB Gen4 M.2 SSD

Advanced thermal management

Dual Opposing Output (DOO) fan and User Selectable Thermal Tables

Wide variety of ports and input connections:

(2) Thunderbolt 4 Type C
(2) USB-A 3.2 Gen 1 (1x power enabled)
HDMI 2.1
RJ-45
microSD-card slot Smart Card Reader (optional)
Nano-SIM card slot
Universal Audio

Spill-proof Pro2 keyboard with backlit option

Industry's most secure commercial PC*

Only Dell offers off-host BIOS verification and Indicators of Attack to reduce exposure to future threats.

Secured Component Verification, offered only by Dell, helps ensure PCs are secure from factory to first boot.

Dell and Intel reduce the attack surface. The latest Intel vPro-based PCs provide an estimated 70% attack surface reduction.**

Privacy Shutter, Fast Sign-in

Up to FHD HDR IR camera with AI-based proximity sensors, intelligent noise canceling microphone.

Reliability

ISV Certified
MIL STD tested
Long Lifecycle
Battery options

4G LTE, 5G FirstNet Certified

WiFi 6E, 4G LTE, 5G LTE with FirstNet Certification, Bluetooth 5.3

Up to FHD, 100% sRGB, 400nits,

PremierColor. Touch, ComfortView Plus, and Low-blue-light (LBL) panel options available

Optional Fingerprint Reader

Integrated with power button
Windows Hello capable

Titan gray



Large glass-like, multi-touch clickpad

Dell Optimizer for Precision

See Dell Optimizer page for more details

Starting weight is 3.58 lbs / 1.62 kg

Up to 130W Type-C adapter
Up to 3-cell 54Whr battery

Simplified PC updates

Get the latest BIOS, drivers and firmware versions, validated and delivered seamlessly from Dell.

Sustainability

This workstation has achieved the EPEAT Gold Climate+ designation, meeting industry best practices for decarbonization.¹ This year, this workstation will ship with 50% recycled cobalt in battery.²

[Click here to see the 360 degree view of the Precision 3590](#)

*Not all features available with all PCs. Additional purchase required for some features.

**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. Results may vary.

¹Based on internal analysis, January 2024. Based on EPEAT Climate+ Designations achieved in all applicable countries. EPEAT registered where applicable. EPEAT registration varies by country, applicable. EPEAT registration varies by country. See www.epeat.net for registration status and tier levels.

²Based on internal analysis, January 2024. Shipping timelines may vary based on region and laptop configuration



Intelligent performance

This thin and light, cost-effective workstation packs intelligent performance, based on the new Intel® Core™ Ultra processors that feature fast, integrated Intel® Arc graphics and AI Accelerators featuring NPU for Intel® AI Boost. There are also vPro options and Copilot in Windows 11; taking advantage of advancing AI technologies to improve user productivity across business and industry applications.



Immersive productivity and design

This 15" workstation delivers an exceptional user experience. Jumpstart your workflow with the **Copilot Hardware Key**, which provides quick access to the tools you need to start your workday. Revolutionize your meetings with **Windows Studio Effects**. Keep your audience engaged with **video auto-framing** and maintain eye contact effortlessly, even while referencing your notes, thanks to **AI-eye tracking technology**.

Elevate your experience with AI-powered tools from Windows 11. Easily make use of the **Snipping Tool**, **voice access**, and **smart recommendations** within File Explorer and your Start menu.



Mission critical reliability and Security

All Dell Precision workstations are tested and certified by independent software vendors to ensure reliably performance. Secure your workstation in this data-driven world with the industry's most secure commercial PCs¹ with robust features from the most secure Windows ever. Plus, they are MIL STD tested. Be secure in the office or on the road with features like an optional Smart Card Reader, optional Fingerprint Reader, and HDR IR Camera with Windows Hello and proximity sensor.

Layer on advanced threat protection with industry-leading partner software. Truly embrace hybrid work with secure and reliable 4G and 5G connectivity.



*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.

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 savings¹

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.¹

Enhance application speed

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

Experience 2x faster network performance²

Network Optimization provides the world's first simultaneous multi-network connection for faster data and video downloads³, and joins the best network⁴ 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](#)

¹This 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/businesssolutions/industry-market/maximizing-power-efficiency-with-dell-optimizer-a-case-study.pdf>

²Based 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

³Simultaneous 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

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



Mobile Workstation Solution

Create your ideal workspace with these recommended accessories.

As the world's #1 monitor company¹, Dell knows that the modern workplace requires more than PCs. We offer 200+ branded accessories to keep you connected and collaborative no matter your work style.



- A. Dell UltraSharp 34 Curved Thunderbolt™ Hub Monitor - U3425WE
- B. Dell Thunderbolt™ 4 Dock - WD22TB4
- C. Dell Premier Wireless Keyboard and Mouse - KM7321W



- D. Dell EcoLoop Pro Backpack - CP5723
- E. Dell Wireless Headset - WL3024
- F. Dell UltraSharp Webcam - WB7022



Customize your workspace, simplify management and enhance privacy with [Dell Display Manager](#) and [Dell Peripheral Manager](#).

▶ Discover more solutions for the modern workplace

Simplify IT

Our secure¹ and simple to manage offerings make IT management a breeze

Improve fleet-wide security with Dell Trusted Workspace

Reduce the attack surface with the industry's most secure commercial PCs¹ 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.¹ Comprehensive security support further minimizes the risk of attack in-use.

Layer on advanced threat protection with software from our ecosystem of best-of-breed partners (e.g., CrowdStrike, Absolute).

[Learn More >](#)

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 with the latest BIOS, driver, and firmware versions.

Dell is the only Top-5 PC vendor that:



Publishes² a device drivers and downloads release schedule: IT Admins can deploy fleet-wide device updates on a predictable timeline.



Performs³ 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.

[Learn More >](#)

DELL Technologies

A P E X

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



Dell APEX Managed Device Service

Designed for small and medium business with limited or no in-house IT, this fully managed subscription includes a team of IT experts that keep business devices up-to-date and secure, with no year-long commitment required (US only.)



Dell APEX PC-as-a-Service

Designed to meet the specific IT needs of larger companies, this fully customizable subscription covers everything – devices, software and services available from one-to-five-year terms.

[Learn More >](#)



Sustainability on Dell Precision 3590

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

Built with Sustainable Materials

Your Precision workstation is crafted with a variety of sustainable materials including post-consumer recycled plastic, ocean-bound plastic, bio-based plastic and reclaimed carbon fiber. This year, this workstation will start shipping with 50% recycled cobalt in the battery.¹ This workstation is made with 46% recycled plastic² and ships with an adapter designed with 95% post-consumer recycled plastic in the case and AC inlet and 98% recycled aluminum in the thermal shielding or heat sink.³

Low-impact Packaging

Your Precision 3590 workstation ships in packaging made with 100% recycled or renewable content, that is also 100% recyclable.⁴ This workstation is also eligible for multipack shipping which helps reduce packaging and transportation waste.⁵

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.

[Learn more>](#)

Environmental Certifications & Registrations

Meeting environmental standards demonstrate how our products adhere to energy-efficiency specifications and other extensive climate-related standards. This workstation is Certified ENERGY STAR[®] 8.0, TCO certified, generation 9 and EPEAT gold registered with Climate+ designation.⁶



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

¹Based on internal analysis, January 2024. Recycled cobalt: Shipping timelines may vary based on region and laptop configuration. Recycled plastic: 30% in LCD cover lid, 30% in LCD antenna window, 50% in LCD bezel, 50% in palm-rest, 50% in inner frame, 30% in bottom door, 35% in battery filler, 50% in battery housing, 30% in speaker enclosure, 28% ocean bound plastic in fan housing, 21% bio-based plastic in LCD cover lid, 21% bio-based plastic in bottom door, 42% bio-based plastic in the feet at the bottom of the device. Reclaimed carbon fiber including 20% in the lid and 20% in the bottom door.

²50% recycled cobalt in laptop battery

³Based on internal analysis, February 2024. Percentage is based on system plastic weight

⁴Contains 38.8% recycled content and 61.2% 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. 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. See local recycling guidelines.

⁵Based on internal analysis, January 2024

⁶Based 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 for registration status and tier levels.

FEATURE	TECHNICAL SPECIFICATION	FEATURE	TECHNICAL SPECIFICATION
MODEL NUMBER¹	Precision 3590		
PROCESSOR¹	Intel® Core™ Ultra 5 125U vPro® Essentials (12 MB cache, 12 cores, up to 4.30 GHz) Intel® Core™ Ultra 7 155U vPro® Essentials (12 MB cache, 12 cores, up to 4.80 GHz) Intel® Core™ Ultra 5 125H vPro® Essentials (18 MB cache, 14 cores, up to 4.50 GHz) Intel® Core™ Ultra 5 135H vPro® Enterprise (18 MB cache, 14 cores, up to 4.60 GHz) Intel® Core™ Ultra 7 155H vPro® Essentials (24 MB cache, 16 cores, up to 4.80 GHz) Intel® Core™ Ultra 7 165H vPro® Enterprise (24 MB cache, 16 cores, up to 5 GHz)	PRODUCTIVITY SW¹	Dell Command Update (DCU) Dell Digital Delivery - Cirrus Client Dell Optimizer Excalibur MS Office MS Office - single language MS Office Home Business Non-Premium (Japan) MS Office Personal Non-Premium (Japan) MS Office Pro Non-Premium (Japan) SupportAssist
OPERATING SYSTEM¹	Windows 11 Home Windows 11 Pro Ubuntu® 22.04 LTS Red Hat 9.4 (validation only)		
MEMORY^{1,2,3}	8 GB: 1 x 8 GB, DDR5, 5600 MT/s, single-channel 16 GB: 1 x 16 GB, DDR5, 5600 MT/s, single-channel 16 GB: 2 x 8 GB, DDR5, 5600 MT/s, dual-channel 32 GB: 1 x 32 GB, DDR5, 5600 MT/s, single-channel 32 GB: 2 x 16 GB, DDR5, 5600 MT/s, dual-channel 64 GB: 2 x 32 GB, DDR5, 5600 MT/s, dual-channel	WARRANTY^{9,10}	1Y hardware warranty with on-site/in-home service after remote diagnosis 2Y hardware warranty with on-site/in-home service after remote diagnosis 3Y hardware warranty with on-site/in-home service after remote diagnosis 4Y hardware warranty with on-site/in-home service after remote diagnosis 5Y hardware warranty with on-site/in-home service after remote diagnosis 1Y ProSupport Suite 2Y ProSupport Suite 3Y ProSupport Suite 4Y ProSupport Suite 5Y ProSupport Suite 2Y Data and Protective Services Extended Battery Services (EBS) - FRU Batteries Only 3Y Data and Protective Services Extended Battery Services (EBS) - FRU Batteries Only
PRIMARY HARD DISK DRIVE^{1,5}	256 GB, M.2 2230, Gen 4 PCIe NVMe, SSD, Class 35 512 GB, M.2 2230, Gen 4 PCIe NVMe, SSD, Class 35 512 GB, M.2 2230, Gen 4 PCIe NVMe, SED, Class 35 512 GB, M.2 2280, Gen 4 PCIe NVMe, SSD, Class 40 1 TB, M.2 2230, Gen 4 PCIe NVMe, SSD, Class 35 1 TB, M.2 2280, Gen 4 PCIe NVMe, SSD, Class 40 2 TB, M.2 2280, Gen 4 PCIe NVMe, SSD, Class 40	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 1-year Accidental Damage with Theft Service 2-year Accidental Damage with Theft Service 3-year Accidental Damage with Theft Service 4-year Accidental Damage with Theft Service 5-year Accidental Damage with Theft Service 1-year Accidental Damage Protection 2-year Accidental Damage Protection 3-year Accidental Damage Protection 4-year Accidental Damage Protection 5-year Accidental Damage Protection
VIDEO CARD	Integrated Graphics: Intel® Arc™ Graphics (for Intel® Core™ H processors and requires 128-bit (dual-channel) memory with minimum of 16 GB memory) Intel® Graphics Discrete Graphics: NVIDIA® RTX™ 500 Ada Generation, 4 GB, GDDR6	KEYBOARD¹	English US non-backlit keyboard with numeric keypad, 99-key English US backlit keyboard with numeric keypad, 99-key English International non-backlit keyboard with numeric keypad, 99-key English UK backlit keyboard with numeric keypad, 100-key Japanese backlit keyboard with numeric keypad, 103-key Canada (Bilingual) (MUI) backlit keyboard with numeric keypad, 99-key French (Canadian) non-backlit keyboard with numeric keypad, 100-key Spanish (Latin America) non-backlit keyboard with numeric keypad, 100-key Arabic backlit keyboard with numeric keypad, 99-key Chinese (Traditional) backlit keyboard with numeric keypad, 99-key English International backlit keyboard with numeric keypad, 99-key French (Canadian) backlit keyboard with numeric keypad, 99-key Greek backlit keyboard with numeric keypad, 99-key Hebrew backlit keyboard with numeric keypad, 99-key Korean backlit keyboard with numeric keypad, 99-key Russian backlit keyboard with numeric keypad, 99-key Thai backlit keyboard with numeric keypad, 99-key Ukrainian backlit keyboard with numeric keypad, 99-key Portuguese (Brazil) backlit keyboard with numeric keypad, 100-key Belgian backlit keyboard with numeric keypad, 100-key Bulgarian backlit keyboard with numeric keypad, 100-key Czech/Slovak (MUI) backlit keyboard with numeric keypad, 100-key Danish backlit keyboard with numeric keypad, 100-key Estonian backlit keyboard with numeric keypad, 100 key French (European) backlit keyboard with numeric keypad, 100-key German backlit keyboard with numeric keypad, 100-key Hungarian backlit keyboard with numeric keypad, 100-key Italian backlit keyboard with numeric keypad, 100-key Nordic (MUI) backlit keyboard with numeric keypad, 100-key Norwegian backlit keyboard with numeric keypad, 100-key Portuguese Iberian backlit keyboard with numeric keypad, 100-key Slovenian backlit keyboard with numeric keypad, 100-key Spanish (Castilian) backlit keyboard with numeric keypad, 100-key Spanish (Latin America) backlit keyboard with numeric keypad, 100-key Swedish/Finnish backlit keyboard with numeric keypad, 100-key Swiss/European (MUI) backlit keyboard with numeric keypad, 100-key Turkish backlit keyboard with numeric keypad, 100-key Turkish (F) backlit keyboard with numeric keypad, 100-key

FEATURE	TECHNICAL SPECIFICATION	FEATURE	TECHNICAL SPECIFICATION
MODEL NUMBER¹	Precision 3590		
DISPLAY	15.6", FHD 1920x1080, 60Hz, IPS, Non-touch, Anti-Glare, 250 nit, 45% NTSC 15.6", FHD 1920x1080, 60Hz, IPS, Touch, Anti-Glare, 250 nit, 45% NTSC 15.6", FHD 1920x1080, 60Hz, IPS, Non-touch, Anti-Glare, 400 nit, 100% sRGB, Low Blue Light, super low power	TOUCHPAD	Multi-touch gesture-enabled precision touchpad, seamless glass-integrated button
CASE COLOR	Titan Gray	PORTS	(2) Thunderbolt™ 4 (40 Gbps) with DisplayPort™ Alt Mode/USB Type-C/USB4/Power Delivery USB 3.2 Gen 1 port with PowerShare HDMI 2.1 port Universal audio port RJ45 Ethernet port USB 3.2 Gen 1 port
OPTICAL DRIVE	No optical drive	SLOTS	MicroSD-card slot Wedge-shaped lock slot Nano-SIM card slot (optional) Smart card reader slot (optional)
DIMENSIONS	US Height (rear): 0.90 in. (22.80 mm) Height (front): 0.82 in. (20.80 mm) Width: 14.09 in. (357.80 mm) Depth: 9.19 in. (233.30 mm) Starting weight (minimum): 3.58 lb (1.62 kg) Rest of the world Height (rear): 22.80 mm (0.90 in.) Height (front): 20.80 mm (0.82 in.) Width: 357.80 mm (14.09 in.) Depth: 233.30 mm (9.19 in.) Starting weight (minimum): 1.62 kg (3.58 lb)	CAMERA	1080p at 30 fps, FHD RGB HDR camera, Temporal Noise Reduction, Dual-array microphones 1080p at 30 fps, FHD RGB-IR HDR camera camera, Temporal Noise Reduction, Dual-array microphones 1080p at 30 fps, FHD RGB-IR HDR camera camera, Temporal Noise Reduction, Dual-array microphones, Ambient light sensor, Express Sign-In™ with Presence Detection and Intelligent Privacy
AUDIO N SPEAKERS¹	Stereo speakers with Realtek Waves MaxxAudio® 13.0, 2W x 2 = 4W total	OPTICAL DRIVE OPTIONS	External options only
WIRELESS	WLAN: Realtek Wi-Fi 6 RTL8852BE, 2x2, MIMO, 802.11ax, Bluetooth® 5.3 wireless card Intel® Wi-Fi 6E AX211, 2x2, MIMO, 802.11ax, Bluetooth® 5.3 wireless card WWAN: 4G CAT12 - Qualcomm® Snapdragon™ SDX12 Global LTE-Advanced (DW5825e), eSIM 5G - Qualcomm® Snapdragon™ X62 Global 5G (DW5932e), eSIM capable 5G - Qualcomm® Snapdragon™ X62 Global 5G (DW5932e), no eSIM	PRIMARY BATTERY	3-cell, 42 Wh, ExpressCharge™, ExpressCharge™ Boost capable 3-cell, 42 Wh, Long Life Cycle, ExpressCharge™ 3-cell, 54 Wh, ExpressCharge™, ExpressCharge™ Boost capable 3-cell, 54 Wh, Long Life Cycle, ExpressCharge™
POWER	Integrated Graphics only: 65W AC adapter, USB Type-C, EPEAT, E5 Integrated/Discrete Graphics: 100W AC adapter, USB Type-C, EPEAT, E5 130W AC adapter, USB Type-C, EPEAT, E5	REGULATORY ^{8,12}	Product Safety, EMC and Environmental Datasheets Dell Regulatory Compliance Home Page Responsible Business Alliance policy

FEATURE	TECHNICAL SPECIFICATION	FEATURE	TECHNICAL SPECIFICATION
MODEL NUMBER¹	Precision 3590		
INTEL RESPONSIVENESS TECHNOLOGIES	Intel® Rapid Storage Technology	CHIPSET	14th Generation Intel MTL-H 14th Generation Intel MTL-U
DOCKING	Dell Thunderbolt Dock – WD22TB4	INPUT	3Dconnexion SpaceMouse Pro Wireless - 3DX-700075 Dell Premier Multi Device Wireless Keyboard and Mouse KM7321W Dell Premier Rechargeable Wireless Mouse MS7421W Wacom Cintiq Pro 24 Creative Pen Display Touch - DTH-2420
MULTIMEDIA	Dell 24 Monitor - P2423D Dell EcoLoop Pro Backpack - CP5723 Dell Premier Multi Device Wireless Keyboard and Mouse KM7321W Dell Premier Rechargeable Wireless Mouse MS7421W Dell U3423WE Dell Webcam WB7022 Dell Webcam WB3023 Dell Wireless Headset - WL3024	SENSORS	Ambient Light Sensor Accelerometer in the base: ST Micro LIS2DW12TR Accelerometer in the hinge-up (Upsell config with Emza/ALS/IR camera): ST Micro LNG2DMTR
SYSTEMS MANAGEMENT	Dell Client Command Suite: Streamline how you deploy drivers, configure BIOS, monitor devices and manage updates. Dell Trusted Update Experience: Simplify how you update your endpoints with the latest BIOS, drivers and firmware versions.		

FEATURE	TECHNICAL SPECIFICATION	DESCRIPTION	
MODEL NUMBER ¹	Precision 3590		
HARDWARE & FIRMWARE SECURITY (INCLUDED)	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>	
HARDWARE & FIRMWARE SECURITY (OPTIONAL)	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"> Secure interaction with Imprivada for authenticating credentials on multi-user devices Finger Print Reader in Power Button tied to ControlVault 3 ControlVault 3 Advanced Authentication with FIPS 140-2 Level 3 Certification Contacted Smart Card and ControlVault 3 Contactless Smart Card, NFC, and ControlVault 3 SED SSD NVMe, SSD and HDD (Opal and non-Opal) per SDL FIPS 201 Full Scan Finger Print Reader and ControlVault Trusted Platform Module (TPM) 2.0 discrete FIPS 140-2 certification for TPM 	
	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"> Dell Fixed Workstations (Desktops): Kensington Security Slot™ (T-bar) Dell Laptops: Kensington Security Slot™ (Wedge) 	
	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.	
	SOFTWARE SECURITY (OPTIONAL)	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.	

FEATURE	TECHNICAL SPECIFICATION	DESCRIPTION
SUSTAINABLE MATERIALS¹	<p>Post-consumer recycled plastic (PCR) and closed loop ITE derived plastic - chasses Post-consumer recycled plastic:30% in LCD cover lid, 30% in LCD antenna window, 50% in LCD bezel, 50% in palm-rest, 50% in inner frame, 30% in bottom door, 35% in battery filler, 50% in battery housing, 30% in speaker enclosure</p> <p>Post-consumer recycled plastic (PCR) - power adapter (65-Watt): 95% in adapter case and AC inlet (100-Watt): 90% in adapter case (60-Watt): 95% in adapter case</p> <p>Recycled aluminum - power adapter (65-Watt): 98% recycled aluminum in thermal shielding</p> <p>Recycled and low emissions aluminum: N/A</p> <p>Recycled copper - power adapter (100-watt): 50% recycled copper in adapter cable</p> <p>Recycled ocean-bound plastic: 28% ocean bound plastic in fan housing</p> <p>Post-industrial recycled steel: N/A</p> <p>Bio-based plastic: 21% bio-based material in LCD cover lid, 21% bio-based material in bottom door 42% bio-based material in the feet at the bottom of the device</p> <p>Reclaimed carbon fiber: 20% in LCD cover lid; 20% in bottom door</p> <p>Recycled cobalt: 50% in battery</p> <p>Recycled or renewable packaging materials: 100% 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</p>
ECO-LABELS¹	<p>EPEAT Climate+(™) Yes</p> <p>EPEAT GOLD</p> <p>TCO Certified, Gen 9 Yes</p> <p>Energy Star 8.0 Yes</p>	<p>This is a product level designation for EPEAT-registered products which meet the industry's best climate criteria.</p> <p>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.</p> <p>Product registry: https://www.epeat.net/</p> <p>TCO Certified is a leading sustainability certification for IT products, with a comprehensive system of up-to-date criteria and independent verification.</p> <p>Product registry: https://tcocertified.com/product-finder/</p> <p>Energy Star 8.0 is a specification recognizing the most energy-efficient PC's, backed by Environmental Protection Agency (US).</p>
MULTI-PACK SHIPPING¹	Dell Multi-pack: 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.
ASSET RECOVERY SERVICES⁶	Asset Recovery Services: 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.
GLOBAL COMPLIANCE	<p>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)</p>	
REGULATORY^{4,6}	<p>Product Safety, EMC and Environmental Datasheets Dell Regulatory Compliance Home Page Dell and the Environment Arsenic free, halogen free</p>	

Legacy, scale and innovation

Dell Technologies is your trusted partner for the future of work

Dell Technologies APEX

1st

and most comprehensive¹
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 2007⁶
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 day²
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.

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ProDeploy Client Suite for PCs

30K+

PC's configured daily³
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.

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Modern
Lifecycle
Solutions

Dell Premier

297%

ROI over 4 years⁵
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>](#)

ProSupport Suite for PCs

641

Hours of admin time saved per year⁴
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>](#)

PRODUCT DISCLAIMERS:

* Castor oil-based material rubber in the feet Tall oil-based bioplastic in the lid Ocean bound plastic in the fan housing Carbon fiber in the lid Recycled copper in AC adapter cable Recycled plastic in lid, AC adapter exterior, palm rest, inner frame, bezel, battery frame, SSD frame, speaker housing, LCD cover antenna window Packaging is made from 100% recycled or renewable content and is 100% recyclable.

** Based on internal analysis, January 2023. Select Precision Mobile Workstations (3490, 3580, 3581).15P-H battery pack housing variants do not contain PCR.

***Up to 38.8 % recycled content and 61.2 % renewable materials in the form of FSC fibers. 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. See local recycling guidelines.

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.
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 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.
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) 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.
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.