PRECISION
3660 Tower

Smart performance that scales

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3660 TOWER

Smart performance that scales

A cost-efficient, mini tower design featuring outstanding performance, scalability, improved CPU cooling and built-in AI responsiveness.

3.5" or 2.5" front-accessible HDD storage option, lockable

Optional **Optical drive**

The slimline bay can also accommodate:
1. Front accessible M.2 NVMe SSD**
2. Integrated Smart Card Reader with Contact and Contact-less Support (CAC/ PIV)

Breathable hexagon panel

Power Button

Audio & microphone combo jack

USB 3.2 Type-A Gen1 (5Gbps)

USB 3.2 Type-A Gen1 (5Gbps) with PowerShare

USB 3.2 Type-C Gen2 (10Gbps)

USB 3.2 Type-C Gen2x2 (20Gbps) with PowerShare

SD card reader

Security screw

Side cover release

Audio out

Lock slot

(2) **DisplayPort 1.4++ HBR2**

Optional 2nd RJ-45 2.5G Ethernet connection

(2) **USB 3.2 Type-C Gen2** (10Gbps) with PD support

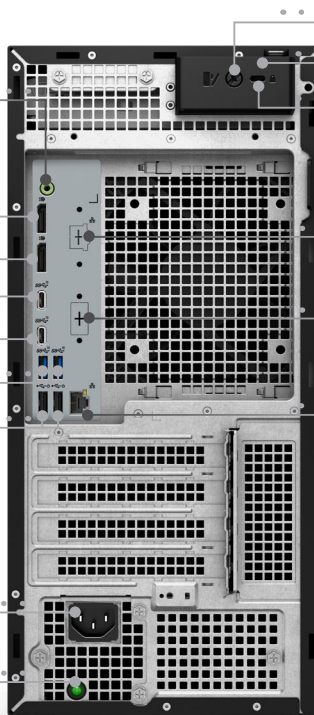**Optional port** (VGA, HDMI 2.0, DP++ 1.4 HBR3, Type C w/DP-Alt mode)

(2) **USB 3.2 Type A Gen2** (10Gbps)

(2) **USB 2.0 Type A** (with SmartPower)

RJ-45 1G Ethernet connection

Power connector

LED indicator

▶ Click here to review 360 degree product demo.

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Intelligent performance

Up to 12th Gen Intel® Core™ i9-12900K 16 Core (8P+8E) Processor (125W), up to RTX A6000 or 350W GPU support (NVIDIA and AMD Cards), up to 28TB storage, RAID support, up to 128GB or up to 4400MHz ECC and non-ECC DDR5 memory

...

Option to upgrade CPU cooling:
Standard CPU Air Cooler
Advanced CPU Air Cooler
Premium CPU Liquid Cooler

Immersive productivity and design

Front-accessible storage for 2.5" or 2.5" SATA HDD (with lockable door and key)
Front-accessible M.2 NVMe SSD

...

Wi-Fi 6E, Bluetooth 5.2

...

Front: USB 3.2 Type-C Gen2x2 (20Gbps) with PowerShare

...

Support for 4K and 8K displays

...

(3) PCIe expansion slots
(3) M.2 NVMe PCIe SSD Slots

...

Internal power supply

...

Tool-less chassis

Mission critical reliability and sustainability

ISV Certifications for performance and reliability

...

MIL-STD tested for reliability

...

Reliable Memory Technology Pro comes with ECC memory

...

EPEAT registered

...

Our packaging is made from 87% recycled or renewable material

PRECISION
3660 TOWER

Dell Optimizer for Precision
Where productivity meets intelligence.

Dell Optimizer revolutionizes the way you work by fueling the world's most intelligent PCs*.
It is the only AI-based optimization software that learns and responds to the way you work and designed to automatically improve application performance, battery run-time, audio settings and privacy – all in the background while you're working.

Personalized performance made for hybrid work

Power to the creators
Dell Optimizer for Precision empowers high-end users with ExpressResponse[6] for performance optimization of storage heavy apps. If you're a Precision user, you also have an exclusive Analytics feature for workload and system insights that help create personalized performance. You can also generate reports within Analytics to get system diagnostics and productivity gains.

Intelligent privacy anywhere
Privacy and security are a major concern – help keep sensitive data private with the world's most comprehensive suite of Intelligent Privacy features[1]. Onlooker detection lets you texturize or turn on Safe Screen when an intruder is detected and Look Away Detect darkens the PC screen based on user behavior.

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

Enhanced audio
Intelligent Audio delivers audio and mic enhancements and reduces background noise so you can fully engage in meetings with confidence, wherever you collaborate. Neural noise cancellation enables advanced artificial intelligent techniques to distinguish human speech from any unwanted noise.

Faster sign-in
Get to work faster with ExpressSign-in[2] – the proximity sensor detects your presence to wake on approach before Windows Hello logs you in via facial recognition.

Unmatched connectivity
Optimized for the best connectivity, ExpressConnect[3] provides the world's first simultaneous multi-network connection for faster data and video downloads[4]. It also enables joining the best network[5] available and prioritizes traffic for conferencing apps, wherever you work.
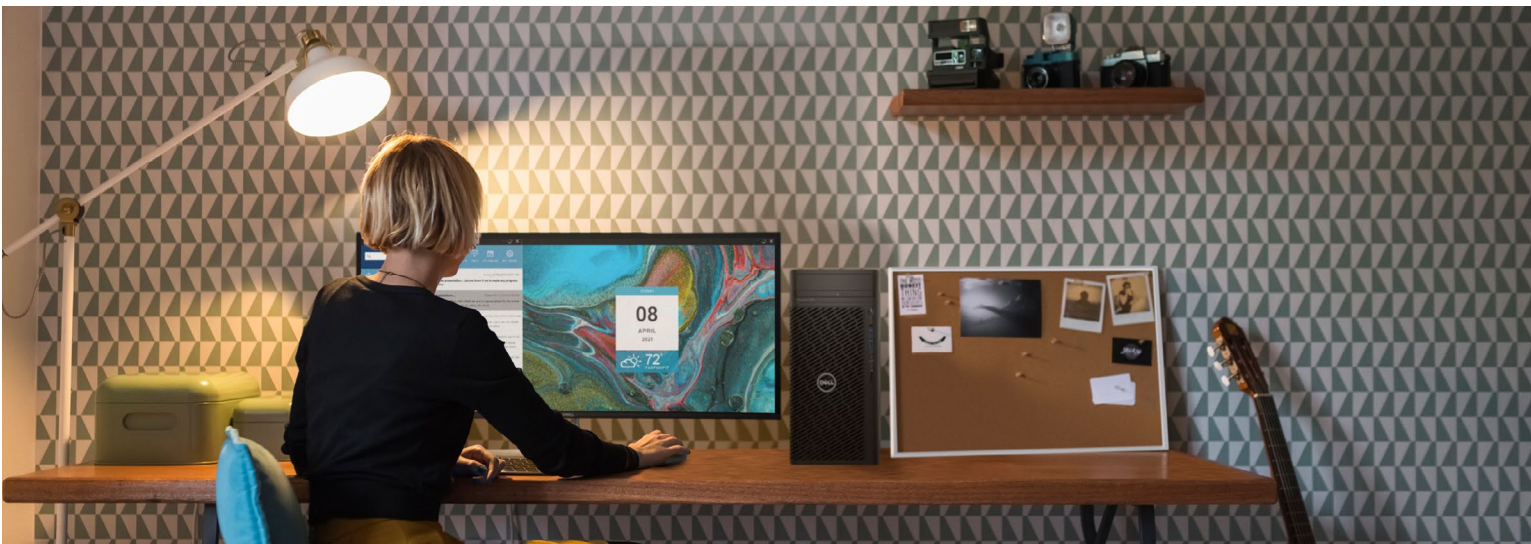
Improved performance
ExpressResponse[6] analyzes how you use your preferred apps[7] to boost performance.

Simplified manageability
Elevate work experience with an easy-to-manage application that provides a seamless experience for both end-users and IT decision makers. Set up individual features and modules from Dell Optimizer that fit your work environment with the modular installation feature. Deployment updates and optimization of multiple PCs remotely can be done simultaneously via centralized management.

Note: Dell Optimizer technologies availability varies based on product type.

RECOMMENDED ACCESSORIES

Dell UltraSharp 34 Curved USB-C HUB Monitor - U3421WE

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

Dell Slim Soundbar - SB521A

World's slimmest and lightest soundbar offers exceptional audio clarity and easy magnetic attachment to your Dell monitors, ensuring a clutter-free desk.

Dell UltraSharp 27 Monitor - U2722D

Take your work to new heights with this 27-inch QHD monitor featuring a wide color coverage, always-on built-in ComfortView Plus, and fast connectivity.

3Dconnexion SpaceMouse Wireless - 3DX-700066

3Dconnexion's patented 6-Degrees-of-Freedom (6DoF) sensor is specifically designed to manipulate digital content or camera positions in industry-leading CAD applications.

Dell UltraSharp Webcam - WB7022

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

Dell Pro Wireless Headset - WL5022

Work from anywhere with this Bluetooth Teams certified headset that lets you switch seamlessly to your PC or smartphone and enjoy crystal clear audio on the go.

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FEATURE	TECHNICAL SPECIFICATION
MODEL NUMBER	Precision 3660 Tower
PROCESSOR OPTIONS[15]	12th Generation Intel® Core™ i9-12900K, 30MB cache, 16 cores (8P+8E), 3.2GHz to 5.2GHz, 125W
	12th Generation Intel® Core™ i9-12900, 30MB cache, 16 cores (8P+8E), 2.4GHz to 5.1GHz, 65W
	12th Generation Intel® Core™ i7-12700K, 25MB cache, 12 cores (8P+4E), 3.6GHz to 5.0GHz, 125W
	12th Generation Intel® Core™ i7-12700, 25MB cache, 12 cores (8P+4E), 2.1GHz to 4.9GHz, 65W
	12th Generation Intel® Core™ i5-12600K, 20MB cache, 10 cores (6P+4E), 3.7GHz to 4.9GHz, 125W
	12th Generation Intel® Core™ i5-12600, 18MB cache, 6 cores (6P+0E), 3.3GHz to 4.8GHz, 65W
	12th Generation Intel® Core™ i5-12500, 18MB cache, 6 cores (6P+0E), 3.0GHz to 4.6GHz, 65W
	12th Generation Intel® Core™ i3-12100, 12MB cache, 4 cores (4P+0E), 3.3GHz to 4.3GHz, 60W[27,28]
	Note: All processors come with Intel® Integrated Graphics
	Processor Cooling options[29,30] 1. Standard CPU Air Cooler (for up to 65W CPUs) 2. Advanced CPU Air Cooler (for all CPUs) 3. Premium CPU Liquid Cooler (for all CPUs)
OPERATING SYSTEM[15]	Windows 11 Home, 64-bit Windows 11 Pro, 64-bit Windows 10 Home, 64-bit Windows 10 Pro, 64-bit Windows 10 IoT 2021 LTSC (OEM Only)[35] Windows 10 CMIT Government Edition, 64-bit (China only) Ubuntu® Linux® 20.04 LTS, 64-bit Kylin V 10 SP1 Red Hat® Enterprise Linux® 8.6 *(coming soon)*
MEMORY OPTIONS[15,16,17]	4 DIMM Slots: Up to 128GB or up to 4400MHz ECC and Non-ECC DDR5 Maximum speed: 4400MHz Maximum capacity: 128GB Maximum memory speed varies by the following configuration on each channel. If the 2 DIMM configuration is not symmetrical, the maximum speed may drop. 4400MHz: 1 DIMM-1R/2R 4000MHz: 2 DIMM-1R 3600MHz: 2 DIMM-2R
	8GB, 1 x 8GB, DDR5, 4400MHz, Non-ECC 16GB, 2 x 8GB, DDR5, 4400MHz, Non-ECC, dual-channel 32GB, 2 x 16GB, DDR5, 4400MHz, Non-ECC, dual-channel 64GB, 2 x 32GB, DDR5, 4400MHz, Non-ECC, dual-channel 32GB, 4 x 8GB, DDR5, 4000MHz, Non-ECC, dual-channel 64GB, 4 x 16GB, DDR5, 4000MHz, Non-ECC, dual-channel 128GB, 4 x 32GB, DDR5, 3600MHz, Non-ECC, dual-channel 16GB, 1 x 16GB, DDR5, 4400MHz, ECC 32GB, 2 x 16GB, DDR5, 4400MHz, ECC, dual-channel 64GB, 2 x 32GB, DDR5, 4400MHz, ECC, dual-channel 64GB 4 x 16GB, DDR5, 4000MHz, ECC, dual-channel 128GB 4 x 32GB, DDR5, 3600MHz, ECC, dual-channel[31]
STORAGE[15,19]	Support for up to (3) M.2 2280 PCIe NVMe SSD on motherboard and up to (3) 3.5-inch SATA[33,34] or (4) 2.5-inch SATA HDDs Front accessible 2.5-inch SATA or 3.5-inch SATA HDD (with lockable door and key) available with specific storage configurations Support for Intel® Ready Mode™ technology Support for up to (1) additional PCIe SSD on Dell Precision Ultra-Speed drive with active cooling RAID 0/1/5/10 available
	M.2 2230, 256GB, PCIe NVMe® Class 35 SSD M.2 2280, 512GB, PCIe NVMe® Class 40 SSD M.2 2280, 1TB, PCIe NVMe® Class 40 SSD M.2 2280, 2TB, PCIe NVMe® Class 40 SSD M.2 2280, 4TB, PCIe NVMe® Class 40 SSD M.2 2280, 512GB, PCIe NVMe® SSD, Self-Encrypting drive M.2 2280, 1TB, PCIe NVMe® SSD, Self-Encrypting drive 2.5-inch, 500GB, 7200RPM, SATA, HDD 2.5-inch, 500GB, 7200RPM, Self-Encrypting, Opal 2.0, FIPS, SATA, HDD 2.5-inch, 1TB, 7200RPM, SATA, HDD 3.5-inch, 1TB, 7200RPM, SATA, HDD 3.5-inch, 2TB, 7200RPM, SATA, HDD 3.5-inch, 4TB, 5400RPM, SATA, HDD 3.5-inch, 4TB, 7200RPM, SATA, Enterprise HDD[32] 3.5-inch, 8TB, 7200RPM, SATA, Enterprise HDD[32]

FEATURE	TECHNICAL SPECIFICATION
GRAPHICS	One PCI Express x16 Gen5 slot supporting graphics cards up to 450W (Total power available for Discrete Graphics cards) Some cards are available in Dual configurations
	Intel® UHD Graphics 730 for 12th Generation Core™ i3 processors Intel® UHD Graphics 770 for 12th Generation Core™ i5/i7/i9 processors NVIDIA® RTX A6000, 48GB, GDDR6 NVIDIA® RTX A5500, 24GB, GDDR6 NVIDIA® RTX A5000, 24GB, GDDR6 NVIDIA® RTX A4500, 20GB, GDDR6 NVIDIA® RTX A4000, 16GB, GDDR6 NVIDIA® RTX A2000, 12GB, GDDR6 NVIDIA® RTX A2000, 6GB, GDDR6 NVIDIA® T1000, 8GB, GDDR6 NVIDIA® T1000, 4GB, GDDR6 NVIDIA® T400, 4GB, GDDR6 NVIDIA® T400 class, 2GB, GDDR6 AMD Radeon™ Pro W6800, 32GB, GDDR6 AMD Radeon™ Pro RX6900XT, 16GB, GDDR6 AMD Radeon™ Pro W6600, 8GB, GDDR6 AMD Radeon™ Pro W6400, 4GB, GDDR6 AMD Radeon™ Pro WX3200, 4GB, GDDR5
CASE COLOR	Dell Standard Black
PRODUCTIVITY SW[15]	Microsoft Office 30 Day Trial Microsoft Office Home and Business 2021 Microsoft Office Professional 2021 Dell Optimizer for Precision
SECURITY	McAfee® Small Business Security 30 Day Free Trial McAfee® Small Business Security 12 month subscription McAfee® Small Business Security 36 month Subscription Intel Guard Technologies & Secure Key: Software Guard (SGX), Data Guard (vPro only), Boot Guard, BIOS Guard (Core CPU's only), OS Guard (Core CPU's only) and Secure Key (i5 or greater only) Intel Runtime BIOS Resilience (Copper Point) with attestation via Nifty Rock + Intel TXT Support of Absolute Persistent Module BIOS agent v2 OpenXT validation required SafeGuard and Response, powered by VMware Carbon Black and Secureworks Next Generation Antivirus (NGAV) Endpoint Detection and Response (EDR) Threat Detection and Response (TDR) Managed Endpoint Detection and Response Incident Management Retainer Emergency Incident Response SafeData
WARRANTY[23,24]	1 years Basic Warranty with Hardware Service on site service after remote diagnosis 2 years Basic Warranty Extension 3 years Basic Warranty Extension 4 years Basic Warranty Extension 5 years Basic Warranty Extension 1 years ProSupport with Next Business Day on-site service 2 years ProSupport with Next Business Day on-site service 3 years ProSupport with Next Business Day on-site service 4 years ProSupport with Next Business Day on-site service 5 years ProSupport with Next Business Day on-site service 1 years ProSupport Plus for Client with Next Business Day on-site service 2 years ProSupport Plus for Client with Next Business Day on-site service 3 years ProSupport Plus for Client with Next Business Day on-site service 4 years ProSupport Plus for Client with Next Business Day on-site service 5 years ProSupport Plus for Client with Next Business Day on-site service
ACCIDENTAL DAMAGE SERVICES	1 Years Accidental Damage Service 2 Years Accidental Damage Service 3 Years Accidental Damage Service 4 Years Accidental Damage Service 5 Years Accidental Damage Service
KEYBOARD[15]	Yes
PORTS, SLOTS & CHASSIS	Front ports: USB 3.2 Type-A Gen 1 (5GB) port USB 3.2 Type-A Gen 1 (5GB) port with PowerShare USB 3.2 Type-C Gen 2 (10GB) port USB 3.2 Type-C Gen 2x2 (20GB) port with PowerShare Universal audio port SD-card slot Rear ports: (2) DisplayPort 1.4 ports (2) USB 2.0 (480MB) ports with SmartPower (2) USB 3.2 Gen 2 (10GB) ports (2) USB 3.2 Type-C Gen 2 (10GB) ports RJ45 Ethernet port, 1GbE Audio Line out Optional Port (VGA, HDMI 2.0, DP++ 1.4, Type-C w/DP-Alt mode)

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FEATURE	TECHNICAL SPECIFICATION
	RJ45 Ethernet port, 2.5GbE (optional)
	Full-height Gen5 PCIe x16 slot Full-height Gen3 PCIe x4 slot Full-height Gen 4 PCIe x4 slot M.2 2230 slot for WiFi and Bluetooth card (2) M.2 2230/2280 PCIe Gen4 slots for NVMe SSDs M.2 2280 PCIe Gen3 slot for NVMe SSD (5) SATA slots for 2.5/3.5 inch HDD/ODD
OPTICAL DRIVE	8x DVD-ROM 9.5mm Optical Disk Drive 8x DVD+/-RW 9.5mm Optical Disk Drive Integrated Smart Card Reader with Contact and Contactless Support (CAC/PIV)
ADD-IN CARDS	Serial Port Card Thunderbolt 4 PCIe Card Zoom Ultra-speed Card WLAN External Antenna AIC USB 4.0 Type-C PCIe AIC card Intel Gigabit Ethernet 2.5GbE NIC PCIe Card
MULTIMEDIA[16] *(SOLD SEPARATELY IN MOST CASES)*	Realtek Audio Controller, ALC3246-CG Internal speakers (optional)
CONNECTIVITY OPTIONS	Qualcomm® WCN6856-DBS, 2x2MIMO, 3571Mbps, 2.4Ghz/5Ghz/6Ghz, Wi-Fi 6E (Wi-Fi 802.11ax), Bluetooth 5.2 (Coming post launch) Intel® AX211, 2x2MIMO, 2400Mbps, 2.4Ghz/5Ghz/6Ghz, Wi-Fi 6E (Wi-Fi 802.11ax), Bluetooth 5.2
PRIMARY BATTERY	N/A
POWER OPTIONS	300W internal power supply unit, 92% Efficient PSU, 80 Plus Platinum 500W internal power supply unit, 92% Efficient PSU, 80 Plus Platinum 1000W internal power supply unit, 92% Efficient PSU, 80 Plus Platinum
REGULATORY AND ENVIRONMENTAL COMPLIANCE[22,26]	Product Safety, EMC and Environmental Datasheets Dell Regulatory Compliance Home Page Dell and the Environment
CHIPSET	Intel® W680
HARDWARE SECURITY	Security-cable slot Padlock loop Lockable Cable Cover (optional) Lockable Bezel and Key for Front Accessible SATA HDD (optional) Chassis intrusion switch SafeID including Trusted Platform Module (TPM) 2.0 Smart card keyboard (FIPS) Microsoft 10 Device Guard and Credential Guard (Enterprise SKU) Microsoft Windows Bitlocker Local hard drive data wipe through BIOS (Secure Erase) Self-encrypting storage drives (Opal, FIPS) Trusted Platform Module TPM 2.0 China TPM Intel Secure Boot Intel Authenticate SafeBIOS: includes Dell Off-host BIOS Verification, BIOS Resilience, BIOS Recovery, and additional BIOS Controls
RECOMMENDED ACCESSORIES *(SOLD SEPARATELY)*	**Mouse:** 3Dconnexion SpaceMouse Wireless - 3DX-700066 **Audio and Speakers:** Dell Slim Soundbar - SB521A **Audio Headsets:** Dell Pro Wireless Headset - WL5022 **Display:** Dell UltraSharp 27 Monitor - U2722D Dell UltraSharp 34 Curved USB-C HUB Monitor - U3421WE **Keyboards:** Dell Pro Wireless Keyboard and Mouse - KM5221W
SYSTEMS MANAGEMENT	Dell Client Command Suite for In-Band systems management Intel® vPro™ for Out-of-Band systems management

FEATURE	TECHNICAL SPECIFICATION
CONFIGURATION SERVICES	Factory image load BIOS customization Hardware customization Asset Tagging and Reporting
DIMENSIONS & WEIGHT	**US:** Height: 14.52in. (369.00mm) Width: 6.81in. (173.00mm) Depth: 16.53in. (420.00mm) Weight: 18.739lbs (8.5kg) **Rest of the world:** Height: 369.00mm (14.52in.) Width: 173.00mm (6.81in.) Depth: 420.00mm (16.53in.) Weight: 8.5kg (18.739lbs)

Sustainability on Dell Precision workstations

Leading the industry in sustainable practices in our products, packaging and supply chain.

PRECISION LEADS THE WORKSTATION INDUSTRY IN SUSTAINABLE DESIGN AND MATERIALS.

Design

1st

Workstations made with reclaimed carbon fiber and renewable bioplastic[13].

Sustainable Materials

up to 46%

Recycled plastic in fixed workstations. Up to 17% in mobile workstations.

Packaging Innovation

25%

Ocean-bound plastic trays in Precision 5000 Series packaging.

PRECISION HAS

19

EPEAT registered products[14]

→ **EPEAT**

16

TCO 8 certified configurations

→ **TCO**

8.0

ENERGY STAR® throughout the portfolio

→ **ENERGY STAR®**

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.

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 Offering may vary by region. Some items may be available after product introduction. For complete details, refer to the Technical Guidebook published on www.dell.com/support.

16 System Memory and Graphics: Significant system memory may be used to support graphics, depending on system memory size and other factors.

17 4GB or Greater System Memory Capability: A 64-bit operating system is required to support 4GB or more of system memory.

18 Particular versions of Microsoft Windows may not support the full Bluetooth 4.2 functionality

19 Storage Option: GB means 1 billion bytes and TB equals 1 trillion bytes; actual capacity varies with preloaded material and operating environment and will be less.

20 TPM is available in selected regions.

21 Absolute: Not a Dell offer. Certain conditions apply. For full details, see terms and conditions at www.lojackforlaptops.com.

22 Please refer to www.epeat.net for specific country registration rating and participation.

23 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.

24 on-site service after Remote Diagnosis: Remote Diagnosis is determination by online/phone technician of cause of issue; may involve customer access to inside of system and multiple or extended sessions. If issue is covered by Limited Hardware Warranty (www.dell.com/warranty) and not resolved remotely, technician and/or part will be dispatched, usually within 1 business day following completion of Remote Diagnosis. Availability varies. Other conditions apply.

25 Dell Services: Availability and terms of Dell Services vary by region. For more information, visit www.dell.com/servicedescriptions.

26 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.

27 Intel® Turbo Boost Max Technology 3.0 is only available with i7-12700, i9-12900, i7-12700K, i9-12900K processors.

28 Intel® Turbo Max Technology 3.0 is only available on Performance Cores.

29 125 W Processors can only have the Advanced CPU Air Cooler or Premium CPU Liquid Cooler.

30 300 W Power supply units can only have the Standard CPU Air Cooler.

31 ECC memory is not supported on Intel Core i3-12100 processor.

32 Available as Custom Factory Install (CFI) only.

33 (3) 3.5-inch SATA HDDs available with specific storage configurations only.

34 Up to (2) M.2 2230 PCIe NVMe SSDs are supported on the MB.

35 Available through Custom Factory Installation Only

D∕ELL Technologies