PRECISION
3660 TOWER

FEATURE	TECHNICAL SPECIFICATION
MODEL NUMBER	Precision 3660 Tower
PROCESSOR OPTIONS[15]	13th Generation Intel® Core™ i9-13900K vPro®, 36 MB cache, 24 cores (8P + 16E), 3.0GHz to 5.8GHz, 125W
	13th Generation Intel® Core™ i9-13900 vPro®, 36 MB cache, 24 cores (8P + 16E), 2.0GHz to 5.6GHz, 65W
	13th Generation Intel® Core™ i7-13700K vPro®, 30 MB cache, 16 cores (8P + 8E), 3.4GHz to 5.4GHz, 125W
	13th Generation Intel® Core™ i7-13700 vPro®, 30 MB cache, 16 cores (8P + 8E), 2.1GHz to 5.2GHz, 65W
	13th Generation Intel® Core™ i5-13600K vPro®, 24 MB cache, 14 cores (6P + 8E), 3.5GHz to 5.1GHz, 125W
	13th Generation Intel® Core™ i5-13600 vPro®, 24 MB cache, 14 cores (6P + 8E), 2.7GHz to 5.0GHz, 65W
	13th Generation Intel® Core™ i5-13500 vPro®, 24 MB cache, 14 cores (6P + 8E), 2.5GHz to 4.8GHz, 65W
	13th Generation Intel® Core™ i5-13400, 20 MB cache, 10 cores (6P + 4E), 2.5GHz to 4.6GHz, 65W
	13th Generation Intel® Core™ i3-13100, 12 MB cache, 4 cores (4P + 0E), 3.4 GHz to 4.5GHz, 60W
	12th Generation Intel® Core™ i9-12900K vPro®, 30MB cache, 16 cores (8P+8E), 3.2GHz to 5.2GHz, 125W
	12th Generation Intel® Core™ i9-12900 vPro®, 30MB cache, 16 cores (8P+8E), 2.4GHz to 5.1GHz, 65W
	12th Generation Intel® Core™ i7-12700K vPro®, 25MB cache, 12 cores (8P+4E), 3.6GHz to 5.0GHz, 125W
	12th Generation Intel® Core™ i7-12700 vPro®, 25MB cache, 12 cores (8P+4E), 2.1GHz to 4.9GHz, 65W
	12th Generation Intel® Core™ i5-12600K vPro®, 20MB cache, 10 cores (6P+4E), 3.7GHz to 4.9GHz, 125W
	12th Generation Intel® Core™ i5-12600 vPro®, 18MB cache, 6 cores (6P+0E), 3.3GHz to 4.8GHz, 65W
	12th Generation Intel® Core™ i5-12500 vPro®, 18MB cache, 6 cores (6P+0E), 3.0GHz to 4.6GHz, 65W
	12th Generation Intel® Core™ i3-12100 vPro®, 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® 22.04 LTS, 64-bit Kylin V 10 SP1 Red Hat® Enterprise Linux® 8.6 (12th Gen Intel processors only)
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

FEATURE	TECHNICAL SPECIFICATION
STORAGE[15,19]	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]
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, 13th generation core i3 and core i5-13400 processors Intel® UHD Graphics 770 for 12th generation core i5/i7/i9, 13th generation core i7/i9 and i5-13500, i5-13600, i5-13600K 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® T1000, 8GB, GDDR6 NVIDIA® T400, 4GB, 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
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

PRECISION
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FEATURE	TECHNICAL SPECIFICATION
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) 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

FEATURE	TECHNICAL SPECIFICATION
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
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)