PRECISION
7770

FEATURE	TECHNICAL SPECIFICATION
MODEL NUMBER	Precision 7770
PROCESSOR OPTIONS[14]	12th Generation Intel® Core™ i5-12600HX vPro®, 18MB cache, 16 threads, 12 cores (4 P cores & 8 E cores) P cores 2.50GHz to 4.60GHz, E cores 1.80GHz to 3.30GHz, 55W
	12th Generation Intel® Core™ i7-12850HX vPro®, 25MB cache, 24 threads, 16 cores (8 P cores & 8 E cores) P cores 2.10GHz to 4.80GHz, E cores 1.50GHz to 3.40GHz, 55W
	12th Generation Intel® Core™ i9-12950HX vPro®, 30MB cache, 24 threads, 16 cores (8 P cores & 8 E cores) P cores 2.30GHz to 5.00GHz, E cores 1.70GHz to 3.60GHz, 55W
OPERATING SYSTEM[14]	Windows 10 Home, 64-bit
	Windows 10 Professional, 64-bit
	Windows 10 Enterprise, 64-bit
	Windows 10 Pro Education, 64-bit
	Windows 10 Pro China, 64-bit
	Windows 11 Pro, 64-bit with DGR7
	Windows 11 Pro National Education, 64-bit
	Windows 11 Home, 64-bit with DGR7
	RedHat Enterprise Linux 8.6
	Ubuntu® Linux® 20.04 (64-bit)
MEMORY OPTIONS[14,18,22]	16GB, 1 x 16GB, DDR5, 4800MHz, non-ECC, CAMM module
	32GB, 1 x 32GB, DDR5, 4800MHz, non-ECC, CAMM module
	64GB, 1 x 64GB, DDR5, 4800MHz, non-ECC, CAMM module
	128GB, 1 x 128GB, DDR5, 3600MHz, non-ECC, CAMM module
	8GB, 1 x 8GB, DDR5, 4800MHz, non-ECC, SODIMM
	16GB, 1 x 16GB, DDR5, 4800MHz, ECC, SODIMM
	16GB, 2 x 8GB, DDR5, 4800MHz, non-ECC, SODIMM
	32GB, 2 x 16GB, DDR5, 4800MHz, ECC, SODIMM
	32GB, 2 x 16GB, DDR5, 4800MHz, non-ECC, SODIMM
	64GB, 2 x 32GB, DDR5, 4800MHz, non-ECC, SODIMM
	Note: CAMM memory meets the standard of dual channel, even exceeds it, even though it is not in a standard 2x memory chip/slot/module format. DDR4 has two 64-bit channels (dual channel) but CAMM with DDR5 has four 32-bit channels (quad channel).
PRIMARY HARD DRIVE [14, 20]	M.2 2230, 256GB, PCIe NVMe Gen4 x4, Class 35 SSD
	M.2 2280, 512GB, PCIe NVMe Gen4 x4, Class 40 SSD
	M.2 2280, 1TB, PCIe NVMe Gen4 x4, Class 40 SSD
	M.2 2280, 2TB, PCIe NVMe Gen4 x4, Class 40 SSD
	M.2 2280, 4TB, PCIe NVMe Gen4 x4, Class 40 SSD
	M.2 2280, 512GB, PCIe NVMe Gen3 x4, Class 40 SSD, self-encrypting drive
	M.2 2280, 1TB, PCIe NVMe Gen3 x4, Class 40 SSD, self-encrypting drive
	M.2 2280, 512GB, PCIe NVMe Gen4 x4, Class 40 SSD, self-encrypting drive
	M.2 2280, 1TB, PCIe NVMe Gen4 x4, Class 40 SSD, self-encrypting drive
GRAPHICS	**Integrated:**
	Intel® UHD Graphics
	Discrete: (optional)
	NVIDIA® RTX A1000, 4GB, GDDR6
	NVIDIA® RTX A3000, 12GB, GDDR6
	NVIDIA® RTX A4500, 16GB, GDDR6
	NVIDIA® RTX A5500, 16GB, GDDR6
DISPLAY OPTIONS[14]	17.3-inch, FHD 1920 x 1080, 60Hz, anti-glare, non-touch, 99% DCIP3, 500 nits, wide-viewing angle, LBL (ComfortView Plus)
	17.3-inch, UHD 3840 x 2160, 120Hz, anti-glare, non-touch, 99% DCIP3, 500 nits, wide-viewing angle, WLED, LBL (ComfortView Plus)
CASE COLOR	Aluminum Titan Grey
PRODUCTIVITY SOFTWARE[14]	Dell Support Assist
	DDRE (Dell Developed Recovery Environment)
	Dell Optimizer for Precision
	Dell Support Center
	Intel® WiFi Direct
SECURITY SOFTWARE[14]	Dell Client Command Suite
	Optional Dell Data Security and Management Software
	Dell BIOS Verification
	Optional Dell Endpoint Security and Management Software
	VMware Carbon Black Endpoint Standard
	VMware Carbon Black Endpoint Standard + Secureworks
	Threat Detection and Response
	Dell Encryption Enterprise
	Dell Encryption Personal
	Carbonite
	VMware Workspace ONE
	Absolute® Endpoint Visibility and Control
	Netskope
	Dell Supply Chain Defense

FEATURE	TECHNICAL SPECIFICATION
WARRANTY[20, 21]	3-year hardware service with on-site/in-home service after remote diagnosis
	4-year hardware service with on-site/in-home service after remote diagnosis (Upsell)
	5-year hardware service with on-site/in-home service after remote diagnosis (Upsell)
	3-year ProSupport with Next Business Day on-site service (Upsell)
	4-year ProSupport with Next Business Day on-site service (Upsell)
	5-year ProSupport with Next Business Day on-site service (Upsell)
	3-year ProSupport Plus with Next Business Day on-site service (Upsell)
	4-year ProSupport Plus with Next Business Day on-site service (Upsell)
	5-year ProSupport Plus with Next Business Day on-site service (Upsell)
ACCIDENTAL DAMAGE SERVICES	3-year Accidental Damage Service
	4-year Accidental Damage Service
	5-year Accidental Damage Service
PORTS	(2) ThunderBolt™ 4 ports with (USB Type-C™)
	USB 3.2 Gen 2 Type-C port with DP-alt mode
	USB 3.2 Gen 1 port with PowerShare
	USB 3.2 Gen 1 port
	HDMI 2.0a port (UMA)/1 HDMI 2.1 port (DGPU)
	RJ-45 Ethernet port
	Headset (headphone and microphone combo) port
SLOTS	SmartCard Reader
	Nano SIM-card slot, 4FF (internal)
	SD-card slot
	Wedge-shaped lock slot
DIMENSIONS	Height: 1.13in. (28.50mm)
	Height (rear): 1.06in. (26.70mm)
	Height (front): 1.03in. (25.95mm)
	Width: 15.67in. (398.00mm)
	Depth: 10.44in. (265.02mm)
	Weight: 6.65lb (3.01kg)
CAMERA	1080p at 30fps, FHD, RGB, with Omni-directional digital Microphone
	1080p at 30fps, FHD, IR, with Omni-directional digital Microphone + Proximity sensor
AUDIO & SPEAKERS[14]	Stereo speakers with Dialog, 2W x 4 = 8W total
WIRELESS	**Wireless:**
	Intel® AX211, 2x2 MIMO, 2400Mbps, 2.40GHz/5GHz/6GHz, Wi-Fi 6E (WiFi 802.11ax), Bluetooth® 5.2
	Mobile broadband:
	Qualcomm SDX55 5G, Up to 3Gbps, 7x20MHz
BATTERY	6-cell, 83WHr, Lithium-ion, ExpressCharge™ 2.0
	6-cell, 93WHr, Lithium-ion, ExpressCharge™ and ExpressChargeBoost
POWER OPTIONS[14]	SFF 180W, 7.40mm
	SFF 240W, 7.40mm
REGULATORY[19, 22]	**Product Safety, EMC and Environmental Datasheets:** https://www.dell.com/learn/us/en/uscorp1/product-info-datasheets-safety-emc-environmental
	Dell Regulatory Compliance Home Page: https://www.dell.com/learn/us/en/uscorp1/regulatory-compliance?s=corp
	Dell and the Environment: https://corporate.delltechnologies.com/en-us/social-impact/advancing-sustainability/sustainable-supply-chain/environment.htm

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FEATURE TECHNICAL SPECIFICATION

CHIPSET	Intel® WM690
INTEL RESPONSIVENESS TECHNOLOGIES	Intel® Rapid Storage Technology
HARDWARE SECURITY	Trusted Platform Module (TPM) 2.0 discrete FIPS 140-2 certification for TPM TCG Certificatication for TPM (Trusted Computing Group) Contacted Smart Card and Control Vault 3 Contactless Smart Card, NFC, and ControlVault 3 SED SSD NVMe, SSD and HDD (Opal and non-Opal) per SDL Finger Print Reader in Power Button tied to Control vault 3 SED (Opal 2.0 only - PCIe Interface) Chassis Intrusion Detection Battery Removal Detection RPMC SPI flash SPI Flash Tamper Detection / Prevention Shunt Circuit
DOCKING *(SOLD SEPARATELY)*	Dell Performance Dock - WD19DCS
MULTIMEDIA *(SOLD SEPARATELY)*	Dell Premier Wireless ANC Headset - WL7022 Dell Mobile Adapter Speakerphone - MH3021P HTC VIVE Cosmos 3D VR Headset - MFG 99HARL000-00 Dell part AA809644
RECOMMENDED ACCESSORIES *(SOLD SEPARATELY)*	Dell Premier Multi-Device Wireless Keyboard and Mouse - KM7321W Dell 7-in-1 USB-C Multiport Adapter - DA310 Dell Pro Hybrid Briefcase Backpack 15 - PO1521HB Dell UltraSharp 32 HDR PremierColor Monitor - UP3221Q Dell UltraSharp 38 Curved USB-C HUB Monitor - U3821DW 3Dconnexion SpaceMouse Wireless - 3DX-700066 Wacom Cintiq Pro 24 Creative Pen Display Touch - DTH-2420
INPUT	Optional 10-Finger Touch Display Large Clickpad - no buttons Spill Resistant Non-Backlit Keyboard Spill Resistant Backlit Keyboard
SENSORS	Ambient Light Sensor Windows Auto Brightness Accelerometer Adaptive Thermal Performance (Lap vs. Desk mode) requires Accelerometer (*NOTE: This is for thermal only.*) Hall Effect Sensor Sensor Hub Proximity for SAR compliance (for the WWAN module) Near Field Proximity Sensor
SYSTEMS MANAGEMENT	BIOS complies to Dell SMBIOS implementation spec (DSIS) SW and Drivers MUP/DUP compliant per spec Agile S01310 Dell Power Manager (DPM) Dell Command | Configure Version 4.0 Dell Command | Monitor 10.0 Dell Command | Update 3.0 Dell Command | Update Catalog (DCUC) Dell Command | Deploy (DCP) Dell Command | Integration Suite for System Center 5.0 (DCIS) with vPro® Dell Command | Intel® vPro®™ Out of Band (DCIV) Dell Command | PowerShell Provider 2.0 Dell Command | Deploy Driver Pack Catalog 1.0