



DELL Precision 5520 Intel® Core™ i7 i7-7820HQ Mobile workstation 39,6 cm (15.6") Touchscreen Full HD 16 GB DDR4-SDRAM 256 GB SSD NVIDIA® Quadro® M1200 Wi-Fi 5 (802.11ac) Windows 10 Pro German Black, Silver



Brand : DELL

Product family: Precision

Product code: 9TJDV

Product name : 5520

Intel Core i7-7820HQ (8M Cache, 2.9 GHz), 16GB DDR4 2400MHz, 256GB SSD, 15.6" FHD (1920x1080) IPS, Nvidia Quadro M1200 (4GB), WLAN 802.11ac, Bluetooth 4.2, Windows 10 Pro 64-bit
DELL Precision 5520. Product type: Mobile workstation, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-7820HQ, Processor frequency: 2,9 GHz. Display diagonal: 39,6 cm (15.6"), HD type: Full HD, Display resolution: 1920 x 1080 pixels, Touchscreen. Internal memory: 16 GB, Internal memory type: DDR4-SDRAM. Total storage capacity: 256 GB, Storage media: SSD. Operating system installed: Windows 10 Pro. Product colour: Black, Silver

Design		Keyboard	
Product type *	Mobile workstation	Windows keys	✓
Product colour *	Black, Silver	Keyboard language	German
Form factor *	Clamshell	Software	
Market positioning	Business	Operating system architecture	64-bit
Display		Drivers included	✓
Display diagonal *	39,6 cm (15.6")	Trial software	Microsoft Office
Display resolution *	1920 x 1080 pixels	Operating system installed *	Windows 10 Pro
Touchscreen *	✓	Processor special features	
HD type	Full HD	Intel® Wireless Display (Intel® WiDi)	✓
Panel type	IPS	Intel® My WiFi Technology (Intel® MWT)	✓
LED backlight	✓	Intel® Smart Response Technology	✓
Native aspect ratio	16:9	Intel® Identity Protection Technology (Intel® IPT)	✓
Display surface	Matt	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor		Intel® Turbo Boost Technology	2.0
Processor manufacturer *	Intel	Enhanced Intel SpeedStep Technology	✓
Processor family *	Intel® Core™ i7	Thunderbolt™ 3 Technology	✓
Processor generation	7th gen Intel® Core™ i7	Intel HD Graphics	✓
Processor model *	i7-7820HQ	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor cores	4	Intel Clear Video Technology	✓
Processor threads	8	Intel® InTru™ 3D Technology	✓
Processor boost frequency	3,9 GHz	Intel® Quick Sync Video Technology	✓
Processor frequency *	2,9 GHz	Intel Flex Memory Access	✓
Processor cache	8 MB		
Processor cache type	Smart Cache		
Processor lithography	14 nm		
Processor operating modes	64-bit		
Processor series	Intel Core i7-7800 Mobile Series		
Processor codename	Kaby Lake		

Processor		Processor special features	
Bus type	DMI3	Intel® Smart Cache	✓
Thermal Design Power (TDP)	45 W	Intel® AES New Instructions (Intel® AES-NI)	✓
Configurable TDP-down	35 W	Intel Trusted Execution Technology	✓
Tjunction	100 °C	Intel Enhanced Halt State	✓
Maximum number of PCI Express lanes	16	Intel VT-x with Extended Page Tables (EPT)	✓
PCI Express slots version	3.0	Intel® Secure Key	✓
PCI Express configurations	1x16, 1x8, 2x4, 2x8	Intel TSX-NI	✓
ECC supported by processor	✗	Intel Stable Image Platform Program (SIPP)	✓
Memory		Intel® OS Guard	✓
Internal memory *	16 GB	Intel Software Guard Extensions (Intel SGX)	✓
Internal memory type	DDR4-SDRAM	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Memory clock speed	2400 MHz	Intel 64	✓
Memory form factor	SO-DIMM	Execute Disable Bit	✓
Memory layout (slots x size)	1 x 16 GB	Idle States	✓
Memory slots	2x SO-DIMM	Thermal Monitoring Technologies	✓
Maximum internal memory *	32 GB	Processor package size	42 x 28 mm
Storage		Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Total storage capacity *	256 GB	CPU configuration (max)	1
Storage media *	SSD	Embedded options available	✗
Number of SSDs installed	1	Graphics & IMC lithography	14 nm
SSD capacity	256 GB	Intel Virtualization Technology for Directed I/O (VT-d)	✓
SSD interface	PCI Express	Intel Identity Protection Technology version	1,00
SSD form factor	M.2	Intel Smart Response Technology version	1,00
Optical drive type *	✗	Intel Stable Image Platform Program (SIPP) version	1,00
Card reader integrated	✓	Intel Secure Key Technology version	1,00
Compatible memory cards	SD, SDHC, SDXC	Intel Small Business Advantage (SBA) version	1,00
Graphics		Intel TSX-NI version	1,00
Discrete graphics card model *	NVIDIA® Quadro® M1200	Intel Virtualization Technology (VT-x)	✓
Discrete graphics card memory	4 GB	Processor ARK ID	97496
Discrete graphics memory type	GDDR5	Conflict-Free processor	✓
On-board graphics card *	✓	Brand-specific features	
Discrete graphics card *	✓	Dell E-Value Code	N003P5520BTPDEAT
On-board graphics card family	Intel® HD Graphics	Battery	
On-board graphics card model *	Intel® HD Graphics 630	Battery technology	Lithium Polymer (LiPo)
On-board graphics card base frequency	350 MHz	Number of battery cells	3
On-board graphics card dynamic frequency (max)	1100 MHz	Battery capacity *	56 Wh
Maximum on-board graphics card memory	64 GB	Battery voltage	11,4 V
On-board graphics card DirectX version	12.0	Power	
On-board graphics card OpenGL version	4.4	AC adapter power	130 W
On-board graphics card ID	0x591B	AC adapter frequency	50 - 60 Hz
Number of discrete graphics cards supported	1	AC adapter input voltage	100 - 240 V
Number of discrete graphics cards installed	1	AC adapter output current	6,67 A
NVIDIA G-SYNC	✗	AC adapter output voltage	19.5 V
NVIDIA GameWorks VR	✗	DC-in jack	✓
CUDA	✓	Security	
CUDA cores	640	Cable lock slot	✓
Audio		Cable lock slot type	Kensington
Audio system	MaxxAudio Pro		
Speakers manufacturer	Waves		
Built-in microphone	✓		
Number of microphones	2		

Camera		Security	
Front camera	✓	Password protection	✓
Front camera resolution (numeric)	0,92 MP	Password protection type	BIOS, Supervisor, User
Front camera resolution	1280 x 720 pixels	Operational conditions	
Front camera signal format	720p	Operating temperature (T-T)	0 - 40 °C
Front camera HD type	HD	Storage temperature (T-T)	-40 - 70 °C
Video capturing speed	30 fps	Operating relative humidity (H-H)	10 - 90%
Network		Storage relative humidity (H-H)	10 - 95%
Wi-Fi	✓	Operating altitude	-15,2 - 3048 m
Top Wi-Fi standard *	Wi-Fi 5 (802.11ac)	Non-operating altitude	-15,2 - 10668 m
Wi-Fi standards	802.11a, Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n)	Operating shock	110 G
Ethernet LAN	✗	Non-operating shock	160 G
Bluetooth	✓	Operating vibration	0,66 G
Bluetooth version	4.2	Non-operating vibration	1,3 G
Ports & interfaces		Sustainability	
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	Sustainability certificates	ENERGY STAR
HDMI ports quantity *	1	Weight & dimensions	
HDMI version	1.4	Width	357 mm
DVI port	✗	Depth	235,3 mm
Thunderbolt 3 ports quantity	1	Height (front)	1,15 cm
Combo headphone/mic port	✓	Height (rear)	1,68 cm
USB Sleep-and-Charge	✓	Weight *	1,78 kg
USB Sleep-and-Charge ports	2	Packaging content	
PowerShare	✓	AC adapter included *	✓
Number of USB ports with PowerShare support	2	Manual	✓
Keyboard		Warranty card	✓
Pointing device	Touchpad	Power cord included	✓
Numeric keypad *	✗	Other features	
Keyboard backlit	✓	Maximum internal memory (64-bit)	32 GB
Full-size keyboard	✓		



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