DELL

DELL Precision 5520 Intel® Core™ i7 i7-7820HQ Mobile workstation 39.6 cm (15.6") Touch screen 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: i7-7820HQ, Processor frequency: 2.9 GHz. Display diagonal: 39.6 cm (15.6"), HD type: Full HD, Display resolution: 1920 x 1080 pixels, Touch screen. 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

Product type *	Mobile workstation
Product colour *	Black, Silver
Form factor *	Clamshell
Market positioning	Business

Display

Display diagonal *	39.6 cm (15.6")
Display resolution *	1920 x 1080 pixels
Touch screen *	✔
HD type	Full HD
Panel type	IPS
LED backlight	✔
Native aspect ratio	16:9
Display surface	Matt

Processor

Processor manufacturer *	Intel
Processor family *	Intel® Core™ i7
Processor generation	7th gen Intel® Core™ i7
Processor *	i7-7820HQ
Processor number of cores	4
Processor threads	8
Processor boost frequency	3.9 GHz
Processor frequency *	2.9 GHz
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

Keyboard

Windows keys	✔
Keyboard language	German

Software

Operating system architecture	64-bit
Drivers included	✔
Trial software	Microsoft Office
Operating system installed *	Windows 10 Pro

Processor special features

Intel Wireless Display (WiDi) Technology	✔
Intel My WiFi Technology	✔
Intel® Smart Response Technology	✔
Intel Identity Protection Technology	✔
Intel Hyper-Threading Technology	✔
Intel Turbo Boost Technology	2.0
Enhanced Intel SpeedStep Technology	✔
Thunderbolt™ 3 Technology	✔
Intel HD Graphics	✔
Intel Clear Video HD Technology	✔
Intel Clear Video Technology	✔
Intel® InTru™ 3D Technology	✔
Intel® Quick Sync Video Technology	✔
Intel Flex Memory Access	✔
Intel® Smart Cache	✔
Intel AES New Instructions	✔

Processor

Bus type	DMI3
Thermal Design Power (TDP)	45 W
Configurable TDP-down	35 W
Tjunction	100 °C
Maximum number of PCI Express lanes	16
PCI Express slots version	3.0
PCI Express configurations	1x16, 1x8, 2x4, 2x8
ECC supported by processor	✘

Memory

Internal memory *	16 GB
Internal memory type	DDR4-SDRAM
Memory clock speed	2400 MHz
Memory form factor	SO-DIMM
Memory layout (slots x size)	1 x 16 GB
Memory slots	2x SO-DIMM
Maximum internal memory *	32 GB

Storage

Total storage capacity *	256 GB
Storage media *	SSD
Number of SSDs installed	1
Solid-state drive capacity	256 GB
Solid-state drive interfaces	PCI Express
SSD form factor	M.2
Optical drive type *	✘
Card reader integrated	✔
Compatible memory cards	SD, SDHC, SDXC

Graphics

Discrete graphics card model *	NVIDIA® Quadro® M1200
Discrete graphics card memory	4 GB
Discrete graphics memory type	GDDR5
On-board graphics card *	✔
Discrete graphics card *	✔
On-board graphics card family	Intel® HD Graphics
On-board graphics card model *	Intel® HD Graphics 630
On-board graphics card base frequency	350 MHz
On-board graphics card dynamic frequency (max)	1100 MHz
Maximum on-board graphics card memory	64 GB
On-board graphics card DirectX version	12.0
On-board graphics card OpenGL version	4.4
On-board graphics card ID	0x591B
Number of discrete graphics cards supported	1
Number of discrete graphics cards installed	1
NVIDIA G-SYNC	✘
NVIDIA GameWorks VR	✘
CUDA	✔
CUDA cores	640

Audio

Audio system	MaxxAudio Pro
Speakers manufacturer	Waves
Built-in microphone	✔
Number of microphones	2

Processor special features

Intel Trusted Execution Technology	✔
Intel Enhanced Halt State	✔
Intel VT-x with Extended Page Tables (EPT)	✔
Intel® Secure Key	✔
Intel TSX-NI	✔
Intel Stable Image Platform Program (SIPP)	✔
Intel® OS Guard	✔
Intel Software Guard Extensions (Intel SGX)	✔
Intel Clear Video Technology for MID	✔
Intel 64	✔
Execute Disable Bit	✔
Idle States	✔
Thermal Monitoring Technologies	✔
Processor package size	42 x 28 mm
Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
CPU configuration (max)	1
Embedded options available	✘
Graphics & IMC lithography	14 nm
Intel Virtualization Technology for Directed I/O (VT-d)	✔
Intel Identity Protection Technology version	1.00
Intel Smart Response Technology version	1.00
Intel Stable Image Platform Program (SIPP) version	1.00
Intel Secure Key Technology version	1.00
Intel Small Business Advantage (SBA) version	1.00
Intel TSX-NI version	1.00
Intel Virtualization Technology (VT-x)	✔
Processor ARK ID	97496
Conflict-Free processor	✔

Special features

Dell E-Value Code	N003P5520BTPDEAT

Battery

Battery technology	Lithium Polymer (LiPo)
Number of battery cells	3
Battery capacity *	56 Wh
Battery voltage	11.4 V

Energy Management

AC adapter power	130 W
AC adapter frequency	50 - 60 Hz
AC adapter input voltage	100 - 240 V
AC adapter output current	6.67 A
AC adapter output voltage	19.5 V
DC-in jack	✔

Security

Cable lock slot	✔
Cable lock slot type	Kensington
Password protection	✔
Password protection type	BIOS, Supervisor, User

Operational Conditions

Operating temperature range (T-T)	0 - 40 °C

Camera

Front camera	✔
Front camera resolution (numeric)	0.92 MP
Front camera resolution	1280 x 720 pixels
Front camera signal format	720p
Front camera HD type	HD
Video capturing speed	30 fps

Network

Wi-Fi	✔
Top Wi-Fi standard *	Wi-Fi 5 (802.11ac)
Wi-Fi standards	802.11a, Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n)
Ethernet LAN connection	✘
Bluetooth	✔
Bluetooth version	4.2

Ports & interfaces

USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
HDMI ports quantity *	1
HDMI version	1.4
DVI port	✘
Thunderbolt 3 ports quantity	1
Combo headphone/mic port	✔
USB Sleep-and-Charge	✔
USB Sleep-and-Charge ports	2
PowerShare	✔
Number of USB ports with PowerShare support	2

Keyboard

Pointing device	Touchpad
Numeric keypad *	✘
Keyboard backlit	✔
Full-size keyboard	✔

Operational Conditions

Storage temperature range (T-T)	-40 - 70 °C
Operating relative humidity range	10 - 90%
Storage relative humidity range	10 - 95%
Operating altitude	-15.2 - 3048 m
Non-operating altitude	-15.2 - 10668 m
Operating shock	110 G
Non-operating shock	160 G
Operating vibration	0.66 G
Non-operating vibration	1.3 G

Sustainability

Sustainability certificates	ENERGY STAR

Weight & Dimensions

Width	357 mm
Depth	235.3 mm
Height (front)	1.15 cm
Height (rear)	1.68 cm
Weight *	1.78 kg

Packaging Content

AC adapter bundled *	✔
Manual	✔
Warranty card	✔
Power cord included	✔

Other features

Maximum internal memory (64-bit)	32 GB

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Catalog Object Cloud