



## DELL Precision 7520 i7-6820HQ Mobile workstation 39.6 cm (15.6") 4K Ultra HD Intel® Core™ i7 16 GB DDR4-SDRAM 512 GB SSD NVIDIA® Quadro® M2200 Black

Brand : DELL

Product family: Precision

Product code: XDPYF

Product name : 7520



Intel Core i7-6820HQ (8M Cache, up to 3.60 GHz), 16GB DDR4 2400MHz, 512GB SSD, 15.6" UHD IGZO (3840x2160), Intel HD Graphics 530 + nVidia Quadro M2200, WLAN, Bluetooth, WebCam, NoOS  
DELL Precision 7520. Product type: Mobile workstation, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor: i7-6820HQ, Processor frequency: 2.7 GHz. Display diagonal: 39.6 cm (15.6"), HD type: 4K Ultra HD, Display resolution: 3840 x 2160 pixels. Internal memory: 16 GB, Internal memory type: DDR4-SDRAM. Total storage capacity: 512 GB, Storage media: SSD. On-board graphics card model: Intel® HD Graphics 530, Discrete graphics card model: NVIDIA® Quadro® M2200. Product colour: Black



Design		Software	
Product type *	Mobile workstation	Operating system architecture	64-bit
Product colour *	Black	Operating system installed *	✗
Form factor *	Clamshell	<b>Processor special features</b>	
Display		Intel Wireless Display (WiDi) Technology	✓
Display diagonal *	39.6 cm (15.6")	Intel My WiFi Technology	✓
Display resolution *	3840 x 2160 pixels	Intel® Smart Response Technology	✓
Touch screen *	✗	Intel Identity Protection Technology	✓
HD type	4K Ultra HD	Intel Hyper-Threading Technology	✓
Panel type	IGZO	Intel Turbo Boost Technology	2.0
LED backlight	✓	Intel® Small Business Advantage (Intel® SBA)	✓
Native aspect ratio	16:9	Enhanced Intel SpeedStep Technology	✓
Display brightness	400 cd/m²	Intel Clear Video HD Technology	✓
Processor		Intel Clear Video Technology	✓
Processor manufacturer *	Intel	Intel® InTru™ 3D Technology	✓
Processor generation	6th gen Intel® Core™ i7	Intel® Insider™	✓
Processor *	i7-6820HQ	Intel® Quick Sync Video Technology	✓
Processor family *	Intel® Core™ i7	Intel Flex Memory Access	✓
Processor frequency *	2.7 GHz	Intel AES New Instructions	✓
Processor boost frequency	3.6 GHz	Intel Trusted Execution Technology	✓
Processor number of cores	4	Intel Enhanced Halt State	✓
Processor threads	8	Intel VT-x with Extended Page Tables (EPT)	✓
System bus data transfer rate	8 GT/s	Intel® Secure Key	✓
Processor cache	8 MB	Intel TSX-NI	✓
Processor cache type	Smart Cache	Intel Stable Image Platform Program (SIPP)	✓
Processor socket	BGA 1440	Intel® OS Guard	✓
Processor lithography	14 nm		
Processor operating modes	64-bit		
Processor series	Intel Core i7-6800 Mobile Series		

Processor		Processor special features	
Processor codename	Skylake	Intel Software Guard Extensions (Intel SGX)	✓
Bus type	DMI3	Intel Clear Video Technology for MID	✓
Stepping	R0	Intel 64	✓
Motherboard chipset	Intel® CM238	Execute Disable Bit	✓
Thermal Design Power (TDP)	45 W	Idle States	✓
Configurable TDP-down	35 W	Thermal Monitoring Technologies	✓
Tjunction	100 °C	Processor package size	42 x 28 mm
Maximum number of PCI Express lanes	16	Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0
PCI Express slots version	3.0	Processor code	SR2FU
PCI Express configurations	1x16, 2x8, 1x8+2x4	CPU configuration (max)	1
ECC supported by processor	✗	Embedded options available	✗
Memory		Graphics & IMC lithography	14 nm
Internal memory *	16 GB	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Internal memory type	DDR4-SDRAM	Intel Identity Protection Technology version	1.00
Memory clock speed	2400 MHz	Intel Smart Response Technology version	1.00
Memory form factor	SO-DIMM	Intel Stable Image Platform Program (SIPP) version	1.00
Memory layout (slots x size)	2 x 8 GB	Intel Secure Key Technology version	1.00
Memory slots	4x SO-DIMM	Intel Small Business Advantage (SBA) version	1.00
Maximum internal memory *	64 GB	Intel TSX-NI version	1.00
ECC	✓	Intel Virtualization Technology (VT-x)	✓
Storage		Processor ARK ID	88970
Total storage capacity *	512 GB	Conflict-Free processor	✓
Storage media *	SSD	Battery	
Number of SSDs installed	1	Battery technology	Lithium Polymer (LiPo)
Solid-state drive capacity	512 GB	Number of battery cells	6
Solid-state drive interfaces	PCI Express	Battery capacity *	91 Wh
Optical drive type *	✗	Energy Management	
Card reader integrated	✓	AC adapter power	180 W
Compatible memory cards	SD, SDHC, SDXC	AC adapter frequency	50 - 60 Hz
Graphics		AC adapter input voltage	100 - 240 V
Discrete graphics card model *	NVIDIA® Quadro® M2200	AC adapter output current	9.23 A
On-board graphics card *	✓	AC adapter output voltage	19.5 V
Discrete graphics card *	✓	Security	
On-board graphics card model *	Intel® HD Graphics 530	Cable lock slot	✓
On-board graphics card base frequency	350 MHz	Password protection	✓
On-board graphics card dynamic frequency (max)	1050 MHz	Operational Conditions	
Maximum on-board graphics card memory	1.7 GB	Operating temperature range (T-T)	0 - 40 °C
On-board graphics card DirectX version	12.0	Storage temperature range (T-T)	-40 - 65 °C
On-board graphics card OpenGL version	4.4	Operating relative humidity range	10 - 90%
On-board graphics card ID	0x191B	Storage relative humidity range	5 - 95%
Audio		Operating altitude	-15.2 - 3048 m
Audio system	MaxxAudio Pro	Non-operating altitude	-15.2 - 10668 m
Speakers manufacturer	Waves	Operating shock	140 G
Built-in microphone	✓	Non-operating shock	163 G
Camera		Operating vibration	0.66 G
Front camera	✗	Non-operating vibration	1.3 G
Network		Sustainability	
Wi-Fi	✓	Sustainability certificates	ENERGY STAR
Wi-Fi standards	Wi-Fi 5 (802.11ac)	Weight & Dimensions	
Ethernet LAN connection	✓	Width	378 mm
Ethernet LAN data rates	10,100,1000 Mbit/s	Depth	261 mm
Bluetooth	✓	Height (front)	2.78 cm
Bluetooth version	4.2		

Network		Weight & Dimensions	
Near Field Communication (NFC)	✓	Height (rear)	3.3 cm
Ports & interfaces		Weight *	2.8 kg
Packaging Content			
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	4	Manual	✓
Ethernet LAN (RJ-45) ports quantity	1	Quick start guide	✓
HDMI ports quantity *	1	Power cord included	✓
Mini DisplayPort quantity	1	Other features	
DVI port	✗	AC adapter bundled	✓
Thunderbolt 3 ports quantity	1	Maximum internal memory (64-bit)	64 GB
S/PDIF out port	✗		
Microphone in	✗		
Combo headphone/mic port	✓		
Docking connector	✓		
Charging port type	DC-in jack		
SmartCard slot	✓		
USB Sleep-and-Charge	✓		
USB Sleep-and-Charge ports	4		
Keyboard			
Pointing device	Touchpad		
Numeric keypad *	✓		
Windows keys	✓		



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