



DELL Precision 7680 Intel® Core™ i9 i9-13950HX Mobiel werkstation 40,6 cm (16") Full HD+ 32 GB DDR5-SDRAM 1 TB SSD NVIDIA RTX 3500 Ada Wi-Fi 6E (802.11ax) Windows 11 Pro Grijs

Merk : DELL

Productfamilie: Precision

Artikelcode: MVHK0

Productnaam : 7680

DELL Precision 7680. Producttype: Mobiel werkstation, Form factor: Clamshell. Processorfamilie: Intel® Core™ i9, Processormodel: i9-13950HX. Beeldschermdiagonaal: 40,6 cm (16"), HD type: Full HD+, Resolutie: 1920 x 1200 Pixels. Intern geheugen: 32 GB, Intern geheugentype: DDR5-SDRAM. Totale opslagcapaciteit: 1 TB, Opslagmedia: SSD. On-board graphics adapter model: Intel® UHD Graphics, Discreet grafische adapter model: NVIDIA RTX 3500 Ada. Inclusief besturingssysteem: Windows 11 Pro. Kleur van het product: Grijs



Design		Ports & interfaces	
Product type *	Mobile workstation	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Product colour *	Grey	Ethernet LAN (RJ-45) ports	1
Form factor *	Clamshell	HDMI ports quantity *	1
Market positioning	Business	Thunderbolt 4 ports quantity	2
Introduction year	2023	Intel® Thunderbolt 4	✓
Intel® vPro™ Platform Eligibility	✓	Combo headphone/mic port	✓
Display		Power adapter barrel connector	7.4 mm
Display diagonal *	40.6 cm (16")	Performance	
Display resolution *	1920 x 1200 pixels	Ambient light sensor	✓
Touchscreen *	✗	Accelerometer	✓
HD type	Full HD+	Hall sensor	✓
Panel type	WLED	Keyboard	
LED backlight	✓	Pointing device	Touchpad
Native aspect ratio	16:10	Keyboard language	German
Anti-glare screen	✓	Numeric keypad *	✓
Display brightness	500 cd/m²	Keyboard backlit	✓
Pixel density	142 ppi	Keyboard number of keys	100
RGB colour space	DCI-P3	Software	
Colour gamut	100%	Operating system architecture	64-bit
Maximum refresh rate	60 Hz	Operating system language	Multilingual
Contrast ratio (typical)	1300:1	Trial software	No Microsoft Office License Included 30 day Trial Offer Only
Processor		Operating system installed *	Windows 11 Pro
Processor manufacturer *	Intel	Processor special features	
Processor family *	Intel® Core™ i9	Intel Flex Memory Access	✓
Processor generation	13th gen Intel® Core™ i9	Intel VT-x with Extended Page Tables (EPT)	✓
Processor model *	i9-13950HX	CPU configuration (max)	1
Processor cores	24	Embedded options available	✗
Processor boost frequency	5.5 GHz	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Efficient-core boost frequency	4 GHz	Intel Virtualization Technology (VT-x)	✓
Processor cache	36 MB		
Processor cache type	Smart Cache		
Bus type	DMI4		
Configurable TDP-down	45 W		

Memory		Battery	
Internal memory *	32 GB	Battery technology	Lithium-Ion (Li-Ion)
Internal memory type	DDR5-SDRAM	Number of battery cells	6
Memory clock speed	5600 MHz	Battery capacity *	93 Wh
Memory form factor	CAMM module	Battery voltage	11.55 V
Maximum internal memory *	128 GB	Battery recharge time	3 h
Memory channels	Dual-channel	Fast charging	✓
Non-ECC	✓	Battery weight	410 g
Storage		Power	
Total storage capacity *	1 TB	AC adapter power	240 W
Storage media *	SSD	AC adapter frequency	50 - 60 Hz
Total SSDs capacity	1 TB	AC adapter input voltage	100 - 240 V
Number of SSDs installed	1	AC adapter output current	12.3 A
SSD capacity	1 TB	AC adapter output voltage	19.5 V
SSD interface	PCI Express 4.0	DC-in jack	✓
NVMe	✓	Security	
SSD form factor	M.2	Cable lock slot	✓
Optical drive type *	✗	Cable lock slot type	Wedge
Card reader integrated	✓	Smart card reader	✓
Compatible memory cards	SD, SDHC, SDXC	Trusted Platform Module (TPM)	✓
Graphics		Trusted Platform Module (TPM) version	2.0
Discrete graphics card model *	NVIDIA RTX 3500 Ada	Password protection	✓
Discrete graphics card memory	12 GB	Operational conditions	
Discrete graphics memory type	GDDR6	Operating temperature (T-T)	0 - 35 °C
On-board graphics card *	✓	Storage temperature (T-T)	-40 - 65 °C
On-board GPU manufacturer	Intel	Operating relative humidity (H-H)	10 - 90%
Discrete graphics card *	✓	Storage relative humidity (H-H)	0 - 95%
On-board graphics card model *	Intel® UHD Graphics	Operating altitude	-15.2 - 3048 m
Audio		Non-operating altitude	-15.2 - 10668 m
Audio chip	Realtek ALC3281	Operating shock	110 G
Number of built-in speakers	2	Non-operating shock	160 G
Speaker power	2 W	Operating vibration	0.66 G
Built-in microphone	✓	Non-operating vibration	1.3 G
Number of microphones	2	Weight & dimensions	
Camera		Width	356 mm
Front camera	✓	Depth	258.3 mm
Front camera resolution (numeric)	0.92 MP	Height (front)	2.23 cm
Front camera resolution	1920 x 1080 pixels	Height (rear)	2.32 cm
Front camera HD type	Full HD	Weight *	2.6 kg
Video capturing speed	30 fps	Carbon footprint	
Infrared (IR) camera	✓	Total carbon footprint (kg of CO2e)	471
Network		Total carbon emissions, standard deviation (kg of CO2e)	93
Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)	Carbon emissions, manufacturing (kg of CO2e)	386
Wi-Fi standards	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi 6E (802.11ax)	Carbon emissions, logistics (kg of CO2e)	16
Mobile network connection *	✗	Carbon emissions, energy usage (kg of CO2e)	66
Wi-Fi data rate (max)	2400 Mbit/s	Carbon emissions, end-of-life (kg of CO2e)	2
Antenna type	2x2	Total carbon emissions, w/o use phase (kg of CO2e)	405
WLAN controller model	Intel Wi-Fi 6E AX211	PAIA version	1.3.2
WLAN controller manufacturer	Intel	Packaging content	
Ethernet LAN	✓	Cables included	AC
Ethernet LAN data rates	10,100,1000 Mbit/s		
Bluetooth	✓		
Ports & interfaces			
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2		



5397184810422

Disclaimer. The information published here (the "Information") is based on sources that can be considered reliable, typically the manufacturer, but this Information is provided "AS IS" and without guarantee of correctness or completeness. The Information is only indicative and can be changed at any time without notification. No rights can be based on the Information. Suppliers or aggregators of this Information do not accept any liability with regard to the content of (web)pages and other documents, including its Information. The publisher of the Information can not be held liable for the content of 3rd party websites that are linking this Information or are linked to from this Information. You as the User of the Information are solely responsible for the choice and usage of this Information. You are not entitled to transfer, copy or otherwise multiply or distribute the Information. You are obliged to follow the directions of the copyright owner(s) with regard to the use of the Information. Exclusively Dutch law is applicable. With regard to price and stock data on the site, the publisher followed a number of starting points, which are not necessarily relevant for your private or business circumstances. Therefore, the price and stock data are only indicative and are subject to changes. You are personally responsible for the way you use and apply this information. As a user of the Information or sites or documents in which this Information is included, you will adhere to standard fair use including avoidance of spamming, ripping, intellectual-property violations, privacy violations, and any other illegal activity.

Publication date: 01-MAR-2025. Prints or copies of Information are only valid on the printed Publication date