

DELL Precision 7680 Intel® Core™ i9 i9-13950HX Mobile workstation 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 Grey

Brand : DELL Product family: Precision Product code: 0PD50

Product name: 7680

DELL Precision 7680. Product type: Mobile workstation, Form factor: Clamshell. Processor family: Intel® Core™ i9, Processor model: i9-13950HX. Display diagonal: 40.6 cm (16"), HD type: Full HD+, Display resolution: 1920 x 1200 pixels. Internal memory: 32 GB, Internal memory type: DDR5-SDRAM. Total storage capacity: 1 TB, Storage media: SSD. On-board graphics card model: Intel® UHD Graphics, Discrete graphics card model: NVIDIA RTX 3500 Ada. Operating system installed: Windows 11 Pro. Product colour: Grey





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

Memory		Battery	
Internal memory *	32 GB	Battery technology	Lithium-lon (Li-lon)
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
Memory layout (slots x size)	1 x 32 GB	Battery recharge time	3 h
Maximum internal memory *	128 GB	Fast charging	✓
Memory channels	Dual-channel	Battery weight	410 g
Non-ECC	✓		410 g
Storage		Power	240 W
-	1 TB	AC adapter power AC adapter frequency	240 W 50 - 60 Hz
Total storage capacity * Storage media *	SSD	AC adapter input voltage	100 - 240 V
Total SSDs capacity	1 TB	AC adapter output current	12.3 A
Number of SSDs installed	1	AC adapter output voltage	19.5 V
SSD capacity	1 TB	DC-in jack	✓
SSD interface	PCI Express 4.0		•
NVMe	✓	Security	
SSD form factor	M.2	Cable lock slot	✓
Optical drive type *	×	Cable lock slot type	Wedge
Card reader integrated	✓	Smart card reader	1
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) 802.11a, 802.11b, 802.11q, Wi-Fi 4	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 *	X	Carbon emissions, energy usage (kg of CO2e)	66
Wi-Fi data rate (max)	2400 Mbit/s 2x2	Carbon emissions, end-of-life (kg of	2
Antenna type WLAN controller model	Intel Wi-Fi 6E AX211	CO2e)	۷
WLAN controller manufacturer	Intel	Total carbon emissions, w/o use phase (kg of CO2e)	405
Ethernet LAN	√	PAIA version	1.3.2
Ethernet LAN data rates	10,100,1000 Mbit/s	Packaging content	
Bluetooth	✓	Cables included	AC
Ports & interfaces			

USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *



5397184810460

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.