

DELL Precision 7680 Intel® Core[™] i7 i7-13850HX 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 US International Grey

Brand : DELL

Product family: Precision

Product code: 4W5KH

Product name : 7680

DELL Precision 7680. Product type: Mobile workstation, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-13850HX. 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





Ports & interfaces Design USB 3.2 Gen 2 (3.1 Gen 2) Type-C Product type * Mobile workstation 1 ports quantity Product colour * Grev 1 Ethernet LAN (RJ-45) ports Form factor Clamshell HDMI ports quantity * 1 Market positioning Business Thunderbolt 4 ports quantity 2 Introduction year 2023 Intel® Thunderbolt 4 1 Intel[®] vPro[™] Platform Eligibility 1 Combo headphone/mic port 1 Display Power adapter barrel connector 7.4 mm Display diagonal * 40.6 cm (16") Performance Display resolution * 1920 x 1200 pixels Touchscreen * Ambient light sensor 1 × Accelerometer HD type Full HD+ Panel type WVA Hall sensor LED backlight 1 Keyboard Native aspect ratio 16:10 Pointing device Touchpad Anti-glare screen Numeric keypad * 250 cd/m² Display brightness Keyboard backlit Pixel density 142 ppi Keyboard language **US** International RGB colour space NTSC 45% Colour gamut Software 60 Hz Maximum refresh rate Operating system architecture 64-bit Contrast ratio (typical) 1000:1 Operating system language Multilingual No Microsoft Office License Included Processor Trial software 30 day Trial Offer Only Processor manufacturer * Intel Operating system installed * Windows 11 Pro Processor family * Intel® Core[™] i7 Processor special features 13th gen Intel® Core[™] i7 Processor generation i7-13850HX Processor model * Intel Flex Memory Access 1 Performance-core Max Turbo Intel VT-x with Extended Page 5.3 GHz Frequency Tables (EPT) Efficient-core Max Turbo Frequency 3.8 GHz CPU configuration (max) 1 Processor cache 30 MB Embedded options available × Processor cache type Smart Cache Intel Virtualization Technology for DMI4 Directed I/O (VT-d) Bus type Configurable TDP-down 45 W Intel Virtualization Technology (VT-X) Memory Internal memory * 32 GB

Mamam		Datham	
Memory		Battery	Little inter (12.12.2)
Internal memory type	DDR5-SDRAM	Battery technology	Lithium-Ion (Li-Ion)
Memory clock speed	5600 MHz	Number of battery cells	6
Memory form factor	CAMM module	Battery capacity *	93 Wh
Maximum internal memory *	128 GB	Battery voltage	11.55 V
Memory channels	Dual-channel	Battery recharge time	3 h
Non-ECC	1	Fast charging	1
Storage		Battery weight	410 g
Total storage capacity *	1 TB	Power	
Storage media *	SSD	AC adapter power	240 W
Total SSDs capacity	1 TB	AC adapter frequency	50 - 60 Hz
Number of SSDs installed	1	AC adapter input voltage	100 - 240 V
SSD capacity	1 TB	AC adapter output current	12.3 A
SSD interface	PCI Express 4.0	AC adapter output voltage	19.5 V
NVMe	· ·	DC-in jack	1
SSD form factor	M.2		
Optical drive type *	×	Security	
Card reader integrated	~ ✓	Cable lock slot	<i>✓</i>
		Cable lock slot type	Wedge
Compatible memory cards	SD, SDHC, SDXC	Smart card reader	1
Graphics		Trusted Platform Module (TPM)	1
Discrete graphics card model *	NVIDIA RTX 3500 Ada	Trusted Platform Module (TPM)	2.0
Discrete graphics card memory	12 GB	version	2.0
Discrete graphics memory type	GDDR6	Password protection	1
On-board graphics card $*$	1	Operational conditions	
On-board GPU manufacturer	Intel	• Operating temperature (T-T)	0 - 35 °C
Discrete graphics card *	1	Storage temperature (T-T)	-40 - 65 °C
On-board graphics card model *	Intel [®] UHD Graphics	Operating relative humidity (H-H)	10 - 90%
Audio		Storage relative humidity (H-H)	0 - 95%
Audio chip	Realtek ALC3281	Operating altitude	-15.2 - 3048 m
Number of built-in speakers	2	Non-operating altitude	-15.2 - 10668 m
I	2 2 W	Operating shock	110 G
Speaker power		Non-operating shock	160 G
Built-in microphone		Operating vibration	0.66 G
Number of microphones	2	Non-operating vibration	1.3 G
Camera		Weight & dimensions	
Front camera	1	Width	356 mm
Front camera resolution (numeric)	0.92 MP	Depth	258.3 mm
Front camera resolution	1920 x 1080 pixels	Height (front)	2.23 cm
Front camera HD type	Full HD	Height (rear)	2.32 cm
Video capturing speed	30 fps	Weight *	2.6 kg
Infrared (IR) camera	 Image: A second s	- 5	2.0 kg
Network		Carbon footprint	
Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)	Total carbon footprint (kg of CO2e)	471
	802.11a, 802.11b, 802.11g, Wi-Fi 4	Total carbon emissions, standard deviation (kg of CO2e)	93
Wi-Fi standards	(802.11n), Wi-Fi 5 (802.11ac), Wi-Fi	Carbon emissions, manufacturing	206
Mahila askurd source the sta	6E (802.11ax)	(kg of CO2e)	386
Mobile network connection *	X	Carbon emissions, logistics (kg of	16
Wi-Fi data rate (max)	2400 Mbit/s	CO2e)	
Antenna type	2x2	Carbon emissions, energy usage (kg of CO2e)	66
WLAN controller model	Intel Wi-Fi 6E AX211	Carbon emissions, end-of-life (kg of	2
WLAN controller manufacturer	Intel	CO2e)	2
Ethernet LAN	1	Total carbon emissions, w/o use	405
Ethernet LAN data rates	10,100,1000 Mbit/s	phase (kg of CO2e)	
Bluetooth	1	PAIA version	1.3.2
Ports & interfaces		Packaging content	
USB 3.2 Gen 1 (3.1 Gen 1) Type-A	2	Cables included	AC
ports quantity *	-		



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