



## DELL Precision 7680 Intel® Core™ i7 i7-13850HX Mobiilne tööjaam 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 Hall

Brand : DELL

Product family: Precision

Product code:  
N008P7680EMEA\_VP

Product name : 7680

DELL Precision 7680. Toote tüüp: Mobiilne tööjaam, Toote kuju: Kokkukäiv. Protsessori perekond: Intel® Core™ i7, Protsessori mudel: i7-13850HX. Ekraani diagonaal: 40,6 cm (16"), HD tüüp: Full HD+, Ekraani resolutsioon: 1920 x 1200 pikslit. Sisemälu: 32 GB, Sisemälu tüüp: DDR5-SDRAM. Salvestusmaht kokku: 1 TB, Salvestusseade: SSD. Pardagraafika adapteri mudel: Intel® UHD Graphics, Eraldiseisva graafika adapteri mudel: NVIDIA RTX 3500 Ada. Installitud operatsioonisüsteem: Windows 11 Pro. Toote värv: Hall



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	✓
Display		Combo headphone/mic port	✓
Display diagonal *	40.6 cm (16")	Charging port type	DC-in jack
Display resolution *	1920 x 1200 pixels	Power adapter barrel connector	7.4 mm
Touchscreen *	✗	Performance	
HD type	Full HD+	Ambient light sensor	✓
Panel type	WLED	Accelerometer	✓
LED backlight	✓	Hall sensor	✓
Native aspect ratio	16:10	Keyboard	
Anti-glare screen	✓	Pointing device	Touchpad
Display brightness	500 cd/m <sup>2</sup>	Numeric keypad *	✓
Pixel density	142 ppi	Keyboard backlit	✓
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	Microsoft Office Trial, McAfee Business Protection 1-year
Processor		Operating system installed *	Windows 11 Pro
Processor manufacturer *	Intel	Processor special features	
Processor family *	Intel® Core™ i7	Intel Flex Memory Access	✓
Processor generation	13th gen Intel® Core™ i7	Intel VT-x with Extended Page Tables (EPT)	✓
Processor model *	i7-13850HX	CPU configuration (max)	1
Performance-core Max Turbo Frequency	5.3 GHz	Embedded options available	✗
Efficient-core Max Turbo Frequency	3.8 GHz	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor cache	30 MB	Intel Virtualization Technology (VT-x)	✓
Processor cache type	Smart Cache		
Bus type	DMI4		
Configurable TDP-down	45 W		
Memory			
Internal memory *	32 GB		
Internal memory type	DDR5-SDRAM		

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

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.