



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 2000 Ada Wi-Fi 6E (802.11ax) Windows 11 Pro Grey

Brand : DELL

Product family: Precision

Product code: VPXP2

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 2000 Ada. Operating system installed: Windows 11 Pro. Product colour: Grey



Design		Network	
Product type *	Mobile workstation	Ethernet LAN data rates	10,100,1000 Mbit/s
Product colour *	Grey	Bluetooth	✓
Form factor *	Clamshell	Ports & interfaces	
Market positioning	Business	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Introduction year	2023	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Intel® vPro™ Platform Eligibility	✓	Ethernet LAN (RJ-45) ports	1
Display		HDMI ports quantity *	1
Display diagonal *	40.6 cm (16")	Thunderbolt 4 ports quantity	2
Display resolution *	1920 x 1200 pixels	Intel® Thunderbolt 4	✓
Touchscreen *	✗	Combo headphone/mic port	✓
HD type	Full HD+	Charging port type	DC-in jack
Panel type	WLED	Power adapter barrel connector	7.4 mm
LED backlight	✓	Performance	
Native aspect ratio	16:10	Ambient light sensor	✓
Anti-glare screen	✓	Accelerometer	✓
Display brightness	500 cd/m²	Hall sensor	✓
Pixel density	142 ppi	Keyboard	
RGB colour space	DCI-P3	Pointing device	Touchpad
Colour gamut	100%	Keyboard language	Belgian
Maximum refresh rate	60 Hz	Numeric keypad *	✓
Contrast ratio (typical)	1300:1	Keyboard backlit	✓
Processor		Keyboard number of keys	100
Processor manufacturer *	Intel	Software	
Processor family *	Intel® Core™ i7	Operating system architecture	64-bit
Processor generation	13th gen Intel® Core™ i7	Operating system language	Multilingual
Processor model *	i7-13850HX	Trial software	No Microsoft Office License Included 30 day Trial Offer Only
Processor cores	20	Operating system installed *	Windows 11 Pro
Processor threads	28	Processor special features	
Processor boost frequency	5.3 GHz	Intel Flex Memory Access	✓
Performance cores	8	Intel VT-x with Extended Page Tables (EPT)	✓
Efficient cores	12	CPU configuration (max)	1
Performance-core Max Turbo Frequency	5.3 GHz		
Efficient-core Max Turbo Frequency	3.8 GHz		
Processor cache	30 MB		
Processor cache type	Smart Cache		

Processor		Processor special features	
Bus type	DMI4	Embedded options available	✗
Configurable TDP-down	45 W	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor base power	55 W	Intel Virtualization Technology (VT-x)	✓
Maximum turbo power	157 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 *	83 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	383 g
Non-ECC	✓		
Storage		Power	
Total storage capacity *	1 TB	AC adapter power	180 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	9.23 A
SSD capacity	1 TB	AC adapter output voltage	19.5 V
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	✓
Compatible memory cards	SD, SDHC, SDXC	Trusted Platform Module (TPM)	✓
		Trusted Platform Module (TPM) version	2.0
		Password protection	✓
Graphics		Operational conditions	
Discrete graphics card model *	NVIDIA RTX 2000 Ada	Operating temperature (T-T)	0 - 35 °C
Discrete graphics card memory	8 GB	Storage temperature (T-T)	-40 - 65 °C
Discrete graphics memory type	GDDR6	Operating relative humidity (H-H)	10 - 90%
On-board graphics card *	✓	Storage relative humidity (H-H)	0 - 95%
On-board GPU manufacturer	Intel	Operating altitude	-15.2 - 3048 m
Discrete graphics card *	✓	Non-operating altitude	-15.2 - 10668 m
On-board graphics card family	Intel® UHD Graphics	Operating shock	110 G
On-board graphics card model *	Intel® UHD Graphics	Non-operating shock	160 G
		Operating vibration	0.66 G
		Non-operating vibration	1.3 G
Audio		Weight & dimensions	
Audio chip	Realtek ALC3281	Width	356 mm
Number of built-in speakers	2	Depth	258.3 mm
Speaker power	2 W	Height (front)	2.23 cm
Built-in microphone	✓	Height (rear)	2.32 cm
Number of microphones	2	Weight *	2.6 kg
Camera		Carbon footprint	
Front camera	✓	Total carbon footprint	471 kg of CO2e
Front camera resolution (numeric)	0.92 MP	Total carbon emissions (Standard deviation)	93 kg of CO2e
Front camera resolution	1920 x 1080 pixels	Carbon emissions (Manufacturing)	386 kg of CO2e
Front camera HD type	Full HD	Carbon emissions (Logistics)	16 kg of CO2e
Video capturing speed	30 fps	Carbon emissions (Energy Usage)	66 kg of CO2e
Infrared (IR) camera	✓	Carbon emissions (End-of-Life)	2 kg of CO2e
		Total carbon emissions (w/o Use phase)	405 kg of CO2e
		PAIA version	1.3.2
Network		Packaging content	
Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)	Cables included	AC
Wi-Fi standards	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi 6E (802.11ax)		
Mobile network connection *	✗		
Wi-Fi data rate (max)	2400 Mbit/s		
Antenna type	2x2		
WLAN controller model	Intel Wi-Fi 6E AX211		
WLAN controller manufacturer	Intel		
Ethernet LAN	✓		



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Publication date: 31-MAY-2024. Prints or copies of Information are only valid on the printed Publication date