



# DELL Precision 7680 Intel® Core™ i9 i9-13950HX Mobile workstation 40.6 cm (16") Full HD+ 64 GB DDR5-SDRAM 1 TB SSD NVIDIA RTX 4000 Ada Wi-Fi 6E (802.11ax) Windows 11 Pro Grey



**Brand :** DELL

**Product family:** Precision

**Product code:** PMTF1

**Product name :** 7680

- Windows 11 Pro 64-bit
  - Intel Core i9-13950HX (36MB Cache)
  - 40.6 cm (16") Full HD+ 1920 x 1200 WLED, NVIDIA RTX 4000 (12GB GDDR6)
  - 64GB DDR5-SDRAM & 1000GB SSD
- Intel Core i9-13950HX (36MB Cache), 64GB DDR5-SDRAM, 1000GB SSD, 40.6 cm (16") Full HD+ 1920 x 1200 WLED, Intel UHD Graphics, NVIDIA RTX 4000 (12GB GDDR6), LAN, WLAN, Webcam, Windows 11 Pro 64-bit

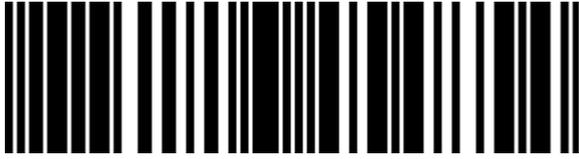
[DELL Precision 7680 Intel® Core™ i9 i9-13950HX Mobile workstation 40.6 cm \(16"\) Full HD+ 64 GB DDR5-SDRAM 1 TB SSD NVIDIA RTX 4000 Ada Wi-Fi 6E \(802.11ax\) Windows 11 Pro Grey:](#)

## Dell's most powerful 16" workstation

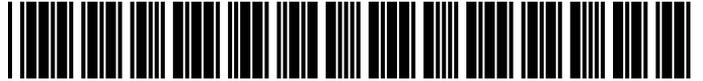
Our ultra scalable 16" mobile workstation is optimized to your configurations.  
 DELL Precision 7680. Product type: Mobile workstation, Form factor: Clamshell. Processor family: Intel® Core™ i9, Processor model: i9-13950HX. Display diagonal: 40.6 cm (16"), HD type: Full HD+, Display resolution: 1920 x 1200 pixels. Internal memory: 64 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 4000 Ada. Operating system installed: Windows 11 Pro. Product colour: Grey

Design		Network	
Product type *	Mobile workstation	Wi-Fi standards	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi 6E (802.11ax)
Product colour *	Grey	Mobile network connection *	✗
Form factor *	Clamshell	Wi-Fi data rate (max)	2400 Mbit/s
Market positioning	Business	Antenna type	2x2
Introduction year	2023	WLAN controller model	Intel Wi-Fi 6E AX211
<b>Display</b>		WLAN controller manufacturer	Intel
Display diagonal *	40.6 cm (16")	Ethernet LAN	✓
Display resolution *	1920 x 1200 pixels	Ethernet LAN data rates	10,100,1000 Mbit/s
Touchscreen *	✗	Bluetooth	✓
HD type	Full HD+	<b>Ports &amp; interfaces</b>	
Panel type	WLED	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
LED backlight	✓	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Native aspect ratio	16:10	Ethernet LAN (RJ-45) ports	1
Anti-glare screen	✓	HDMI ports quantity *	1
Display brightness	500 cd/m <sup>2</sup>	Thunderbolt 4 ports quantity	2
Pixel density	142 ppi	Intel® Thunderbolt 4	✓
RGB colour space	DCI-P3	Combo headphone/mic port	✓
Colour gamut	100%	Power adapter barrel connector	7.4 mm
Maximum refresh rate	60 Hz	<b>Performance</b>	
Contrast ratio (typical)	1300:1	Ambient light sensor	✓
<b>Processor</b>		Accelerometer	✓
Processor manufacturer *	Intel	Hall sensor	✓
Processor family *	Intel® Core™ i9	<b>Keyboard</b>	
Processor generation	13th gen Intel® Core™ i9	Pointing device	Touchpad
Processor model *	i9-13950HX	Numeric keypad *	✓
Processor cores	24		
Processor boost frequency	5.5 GHz		
Efficient-core boost frequency	4 GHz		
Processor cache	36 MB		
Processor cache type	Smart Cache		

<b>Processor</b>		<b>Keyboard</b>	
Bus type	DMI4	Keyboard backlit	✓
Configurable TDP-down	45 W	<b>Software</b>	
<b>Memory</b>		Operating system architecture	64-bit
Internal memory *	64 GB	Operating system installed *	Windows 11 Pro
Internal memory type	DDR5-SDRAM	<b>Processor special features</b>	
Memory form factor	CAMM module	CPU configuration (max)	1
Maximum internal memory *	128 GB	<b>Battery</b>	
Memory channels	Dual-channel	Battery technology	Lithium-Ion (Li-Ion)
<b>Storage</b>		Number of battery cells	6
Total storage capacity *	1 TB	Battery capacity *	93 Wh
Storage media *	SSD	Battery voltage	11.55 V
Total SSDs capacity	1 TB	Battery recharge time	3 h
Number of SSDs installed	1	Fast charging	✓
SSD capacity	1 TB	Battery weight	410 g
SSD interface	PCI Express 4.0	<b>Power</b>	
NVMe	✓	AC adapter frequency	50 - 60 Hz
SSD form factor	M.2	AC adapter input voltage	100 - 240 V
Optical drive type *	✗	AC adapter output voltage	19.5 V
Card reader integrated	✓	DC-in jack	✓
Compatible memory cards	SD, SDHC, SDXC	<b>Security</b>	
<b>Graphics</b>		Cable lock slot	✓
Discrete graphics card model *	NVIDIA RTX 4000 Ada	Cable lock slot type	Wedge
Discrete graphics card memory	12 GB	Trusted Platform Module (TPM)	✓
Discrete graphics memory type	GDDR6	Trusted Platform Module (TPM) version	2.0
On-board graphics card *	✓	Password protection	✓
On-board GPU manufacturer	Intel	<b>Operational conditions</b>	
Discrete graphics card *	✓	Operating temperature (T-T)	0 - 35 °C
On-board graphics card model *	Intel® UHD Graphics	Storage temperature (T-T)	-40 - 65 °C
<b>Audio</b>		Operating relative humidity (H-H)	10 - 90%
Audio chip	Realtek ALC3281	Storage relative humidity (H-H)	0 - 95%
Number of built-in speakers	2	Operating altitude	-15.2 - 3048 m
Speaker power	2 W	Non-operating altitude	-15.2 - 10668 m
Built-in microphone	✓	Operating shock	110 G
Number of microphones	2	Non-operating shock	160 G
<b>Camera</b>		Operating vibration	0.66 G
Front camera	✓	Non-operating vibration	1.3 G
Front camera resolution (numeric)	0.92 MP	<b>Weight &amp; dimensions</b>	
Front camera resolution	1920 x 1080 pixels	Width	356 mm
Front camera HD type	Full HD	Depth	258.3 mm
Video capturing speed	30 fps	Height (front)	2.23 cm
Infrared (IR) camera	✓	Height (rear)	2.32 cm
<b>Network</b>		Weight *	2.6 kg
Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)	<b>Packaging content</b>	
		Cables included	AC



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### Catalog Object Cloud



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