



DELL Precision 7680 Intel® Core™ i7 i7-13850HX Mobile workstation 40.6 cm (16") Full HD+ 32 GB DDR5-SDRAM 512 GB SSD NVIDIA RTX A2000 Wi-Fi 6E (802.11ax) Windows 11 Pro Grey

Brand : DELL

Product family: Precision

Product code: 091RP

Product name : 7680

- Windows 11 Pro 64-bit
- Intel Core i7-13850HX (30MB Cache)
- 40.6 cm (16") Full HD+ 1920 x 1200 WLED, NVIDIA RTX A2000 (8GB GDDR6)
- 32GB DDR5-SDRAM & 512GB SSD

Intel Core i7-13850HX (30MB Cache), 32GB DDR5-SDRAM, 512GB SSD, 40.6 cm (16") Full HD+ 1920 x 1200 WLED, Intel UHD Graphics, NVIDIA RTX A2000 (8GB GDDR6), LAN, WLAN, Webcam, Windows 11 Pro 64-bit

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Dell's most powerful 16" workstation

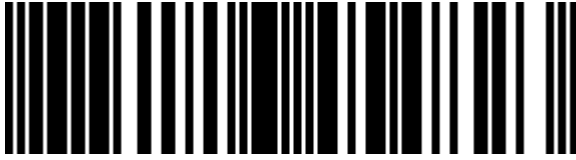
Our ultra scalable 16" mobile workstation is optimized to your configurations.

DELL Precision 7680. Product type: Mobile workstation, Form factor: Clamshell. Processor family: Intel® Core™ 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: 512 GB, Storage media: SSD. On-board graphics card model: Intel® UHD Graphics, Discrete graphics card model: NVIDIA RTX A2000. 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
Display		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+	Ports & interfaces	
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/m²	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	Performance	
Contrast ratio (typical)	1300:1	Ambient light sensor	✓
Processor		Accelerometer	✓
Processor manufacturer *	Intel	Hall sensor	✓
Processor family *	Intel® Core™ i7	Keyboard	
Processor generation	13th gen Intel® Core™ i7	Pointing device	Touchpad
Processor model *	i7-13850HX	Numeric keypad *	✓
Performance-core Max Turbo Frequency	5.3 GHz	Keyboard backlight	✓
Efficient-core Max Turbo Frequency	3.8 GHz		
Processor cache	30 MB		
Processor cache type	Smart Cache		
Bus type	DMI4		

Processor		Software	
Configurable TDP-down	45 W	Operating system architecture	64-bit
Memory		Operating system installed *	Windows 11 Pro
Internal memory *	32 GB	Processor special features	
Internal memory type	DDR5-SDRAM	CPU configuration (max)	1
Memory form factor	CAMM module	Battery	
Maximum internal memory *	128 GB	Battery technology	Lithium-Ion (Li-Ion)
Memory channels	Dual-channel	Number of battery cells	6
Storage		Battery capacity *	83 Wh
Total storage capacity *	512 GB	Battery voltage	11.55 V
Storage media *	SSD	Battery recharge time	3 h
Total SSDs capacity	512 GB	Fast charging	✓
Number of SSDs installed	1	Battery weight	383 g
SSD capacity	512 GB	Power	
SSD interface	PCI Express 4.0	AC adapter frequency	50 - 60 Hz
NVMe	✓	AC adapter input voltage	100 - 240 V
SSD form factor	M.2	AC adapter output voltage	19.5 V
Optical drive type *	✗	DC-in jack	✓
Card reader integrated	✓	Security	
Compatible memory cards	SD, SDHC, SDXC	Cable lock slot	✓
Graphics		Cable lock slot type	Wedge
Discrete graphics card model *	NVIDIA RTX A2000	Trusted Platform Module (TPM)	✓
Discrete graphics card memory	8 GB	Trusted Platform Module (TPM) version	2.0
Discrete graphics memory type	GDDR6	Password protection	✓
On-board graphics card *	✓	Operational conditions	
On-board GPU manufacturer	Intel	Operating temperature (T-T)	0 - 35 °C
Discrete graphics card *	✓	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
Speaker power	2 W	Operating shock	110 G
Built-in microphone	✓	Non-operating shock	160 G
Number of microphones	2	Operating vibration	0.66 G
Camera		Non-operating vibration	1.3 G
Front camera	✓	Weight & dimensions	
Front camera resolution (numeric)	0.92 MP	Width	356 mm
Front camera resolution	1920 x 1080 pixels	Depth	258.3 mm
Front camera HD type	Full HD	Height (front)	2.23 cm
Video capturing speed	30 fps	Height (rear)	2.32 cm
Infrared (IR) camera	✓	Weight *	2.6 kg
Network		Packaging content	
Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)	Cables included	AC



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Catalog Object Cloud



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