



DELL Precision 7780 Intel® Core™ i7 i7-13850HX Mobile workstation 43.9 cm (17.3") Full HD 32 GB DDR5-SDRAM 1 TB SSD NVIDIA RTX 3500 Ada Wi-Fi 6E (802.11ax) Windows 11 Pro Grey

Brand : DELL

Product family: Precision

Product code: 011DP

Product name : 7780

DELL Precision 7780. Product type: Mobile workstation, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-13850HX. Display diagonal: 43.9 cm (17.3"), HD type: Full HD, Display resolution: 1920 x 1080 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



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
Intel® vPro™ Platform Eligibility	✓	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Display		Ethernet LAN (RJ-45) ports	1
Display diagonal *	43.9 cm (17.3")	HDMI ports quantity *	1
Display resolution *	1920 x 1080 pixels	Thunderbolt 4 ports quantity	2
Touchscreen *	✗	Intel® Thunderbolt 4	✓
HD type	Full HD	Combo headphone/mic port	✓
Panel type	WVA	Charging port type	DC-in jack
LED backlight	✓	Power adapter barrel connector	7.4 mm
Native aspect ratio	16:9	USB Type-C DisplayPort Alternate Mode	✓
Anti-glare screen	✓	PowerShare	✓
Display brightness	500 cd/m²	Number of USB ports with PowerShare support	1
Pixel density	127 ppi	Performance	
RGB colour space	DCI-P3	Ambient light sensor	✓
Colour gamut	99%	Accelerometer	✓
Maximum refresh rate	60 Hz	Hall sensor	✓
Contrast ratio (typical)	1000:1	Keyboard	
Processor		Pointing device	Touchpad
Processor manufacturer *	Intel	Keyboard language	Belgian
Processor family *	Intel® Core™ i7	Numeric keypad *	✓
Processor generation	13th gen Intel® Core™ i7	Keyboard backlit	✓
Processor model *	i7-13850HX	Keyboard number of keys	100
Processor cores	20	Software	
Processor threads	28	Operating system architecture	64-bit
Processor boost frequency	5.3 GHz	Operating system language	Multilingual
Performance cores	8	Trial software	No Microsoft Office License Included 30 day Trial Offer Only
Efficient cores	12	Operating system installed *	Windows 11 Pro
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		
Bus type	DMI4		

Processor		Processor special features	
Configurable TDP-down	45 W	CPU configuration (max)	1
Processor base power	55 W	Battery	
Maximum turbo power	157 W	Battery technology	Lithium-Ion (Li-Ion)
Memory		Number of battery cells	6
Internal memory *	32 GB	Battery capacity *	93 Wh
Internal memory type	DDR5-SDRAM	Battery voltage	11.55 V
Memory clock speed	5600 MHz	Battery recharge time	3 h
Memory form factor	CAMM module	Fast charging	✓
Memory layout (slots x size)	1 x 32 GB	Battery charge indicator	✓
Maximum internal memory *	128 GB	Battery weight	410 g
Non-ECC	✓	Power	
Storage		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	Security	
SSD capacity	1 TB	Cable lock slot	✓
SSD interface	PCI Express	Cable lock slot type	Wedge
NVMe	✓	Smart card reader	✓
SSD form factor	M.2	Trusted Platform Module (TPM)	✓
Optical drive type *	✗	Trusted Platform Module (TPM) version	2.0
Card reader integrated	✓	Password protection	✓
Compatible memory cards	SD, SDHC, SDXC	Operational conditions	
Graphics		Operating temperature (T-T)	0 - 35 °C
Discrete graphics card model *	NVIDIA RTX 3500 Ada	Storage temperature (T-T)	-40 - 65 °C
Discrete graphics card memory	12 GB	Operating relative humidity (H-H)	10 - 90%
Discrete graphics memory type	GDDR6	Storage relative humidity (H-H)	0 - 95%
On-board graphics card *	✓	Operating altitude	-15.2 - 3048 m
On-board GPU manufacturer	Intel	Non-operating altitude	-15.2 - 10668 m
Discrete graphics card *	✓	Operating shock	110 G
On-board graphics card family	Intel® UHD Graphics	Non-operating shock	160 G
On-board graphics card model *	Intel® UHD Graphics	Operating vibration	0.66 G
Audio		Non-operating vibration	1.3 G
Audio chip	Realtek ALC3281	Weight & dimensions	
Number of built-in speakers	2	Width	398 mm
Speaker power	2 W	Depth	265 mm
Built-in microphone	✓	Height (front)	2.59 cm
Number of microphones	2	Height (rear)	2.67 cm
Camera		Weight *	3.02 kg
Front camera	✓	Carbon footprint	
Front camera resolution (numeric)	0.92 MP	Total carbon footprint	510 kg of CO2e
Front camera resolution	1920 x 1080 pixels	Total carbon emissions (Standard deviation)	104 kg of CO2e
Front camera HD type	Full HD	Carbon emissions (Manufacturing)	404 kg of CO2e
Video capturing speed	30 fps	Carbon emissions (Logistics)	19 kg of CO2e
Infrared (IR) camera	✓	Carbon emissions (Energy Usage)	85 kg of CO2e
Network		Carbon emissions (End-of-Life)	2 kg of CO2e
Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)	Total carbon emissions (w/o Use phase)	425 kg of CO2e
Wi-Fi standards	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi 6E (802.11ax)	PAIA version	1.3.2
Mobile network connection *	✗	Packaging content	
Wi-Fi data rate (max)	2400 Mbit/s	Cables included	AC
Antenna type	2x2		
WLAN controller model	Intel Wi-Fi 6E AX211		
WLAN controller manufacturer	Intel		
Ethernet LAN	✓		



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