



DELL Precision 7780 Intel® Core™ i7 i7-13850HX Mobile workstation 43.9 cm (17.3") Full HD 16 GB DDR5-SDRAM 512 GB SSD NVIDIA RTX 2000 Ada Wi-Fi 6E (802.11ax) Windows 11 Pro Belgian Grey



Brand : DELL

Product family: Precision

Product code: R9N19

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: 16 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 2000 Ada. Operating system installed: Windows 11 Pro. Product colour: Grey

Design

Product type *	Mobile workstation
Product colour *	Grey
Form factor *	Clamshell
Market positioning	Business
Intel® vPro™ Platform Eligibility	✓

Display

Display diagonal *	43.9 cm (17.3")
Display resolution *	1920 x 1080 pixels
Touchscreen *	✗
HD type	Full HD
Panel type	WVA
LED backlight	✓
Native aspect ratio	16:9
Anti-glare screen	✓
Display brightness	500 cd/m ²
Pixel density	127 ppi
RGB colour space	DCI-P3
Colour gamut	99%
Maximum refresh rate	60 Hz
Contrast ratio (typical)	1000:1

Processor

Processor manufacturer *	Intel
Processor family *	Intel® Core™ i7
Processor generation	13th gen Intel® Core™ i7
Processor model *	i7-13850HX
Processor cores	20
Processor threads	28
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
Configurable TDP-down	45 W

Ports & interfaces

HDMI ports quantity *	1
Thunderbolt 4 ports quantity	2
Intel® Thunderbolt 4	✓
Combo headphone/mic port	✓
Power adapter barrel connector	7.4 mm
USB Type-C DisplayPort Alternate Mode	✓
PowerShare	✓
Number of USB ports with PowerShare support	1

Performance

Ambient light sensor	✓
Accelerometer	✓
Hall sensor	✓

Keyboard

Pointing device	Touchpad
Numeric keypad *	✓
Keyboard backlight	✓
Keyboard number of keys	100
Keyboard language	Belgian

Software

Operating system architecture	64-bit
Operating system language	Multilingual
Trial software	Activate Your Microsoft 365 For A 30 Day Trial
Operating system installed *	Windows 11 Pro

Processor special features

Intel Flex Memory Access	✓
Intel VT-x with Extended Page Tables (EPT)	✓
CPU configuration (max)	1
Embedded options available	✗
Intel Virtualization Technology for Directed I/O (VT-d)	✓

Memory		Processor special features	
Internal memory *	16 GB	Intel Virtualization Technology (VT-x)	✓
Internal memory type	DDR5-SDRAM	Battery	
Memory clock speed	4800 MHz	Battery technology	Lithium-Ion (Li-Ion)
Memory form factor	CAMM module	Number of battery cells	6
Memory layout (slots x size)	1 x 16 GB	Battery capacity *	93 Wh
Maximum internal memory *	128 GB	Battery voltage	11.55 V
Non-ECC	✓	Battery recharge time	3 h
Storage		Fast charging	✓
Total storage capacity *	512 GB	Battery charge indicator	✓
Storage media *	SSD	Battery weight	410 g
Total SSDs capacity	512 GB	Power	
Number of SSDs installed	1	AC adapter power	240 W
SSD capacity	512 GB	AC adapter frequency	50 - 60 Hz
SSD interface	PCI Express	AC adapter input voltage	100 - 240 V
NVMe	✓	AC adapter output current	12.3 A
SSD form factor	M.2	DC-in jack	✓
Optical drive type *	✗	Security	
Card reader integrated	✓	Cable lock slot	✓
Compatible memory cards	SD, SDHC, SDXC	Cable lock slot type	Wedge
Graphics		Smart card reader	✓
Discrete graphics card model *	NVIDIA RTX 2000 Ada	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	398 mm
Front camera resolution	1920 x 1080 pixels	Depth	265 mm
Front camera HD type	Full HD	Height (front)	2.6 cm
Video capturing speed	30 fps	Height (rear)	2.67 cm
Infrared (IR) camera	✓	Weight *	3.02 kg
Network		Carbon footprint	
Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)	Total carbon footprint (kg of CO2e)	510
Wi-Fi standards	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi 6E (802.11ax)	Total carbon emissions, standard deviation (kg of CO2e)	104
Mobile network connection *	✗	Carbon emissions, manufacturing (kg of CO2e)	404
Wi-Fi data rate (max)	2400 Mbit/s	Carbon emissions, logistics (kg of CO2e)	19
Antenna type	2x2	Carbon emissions, energy usage (kg of CO2e)	85
WLAN controller model	Intel Wi-Fi 6E AX211	Carbon emissions, end-of-life (kg of CO2e)	2
WLAN controller manufacturer	Intel	Total carbon emissions, w/o use phase (kg of CO2e)	425
Ethernet LAN	✓	PAIA version	1.3.2
Ethernet LAN data rates	10,100,1000 Mbit/s	Ports & interfaces	
Bluetooth	✓	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2

Ports & interfaces		Packaging content	
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1	Cables included	AC
Ethernet LAN (RJ-45) ports	1		



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