DELL Precision 7680 Intel® Core™ i7 i7-13850HX Station de travail mobile 40,6 cm (16") Full HD+ 32 Go DDR5-SDRAM 1 To SSD NVIDIA RTX 2000 Ada Wi-Fi 6E (802.11ax) Windows 11 Pro Gris

Marque : DELL   **Famille de produit:** Precision   **Code produit:** 8JD10
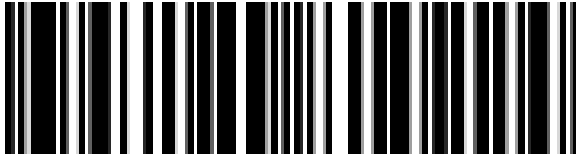
Nom du produit : 7680

DELL Precision 7680. Type de produit: Station de travail mobile, Elément de format: Boîte coquille. Famille de processeur: Intel® Core™ i7, Modèle de processeur: i7-13850HX. Taille de l'écran: 40,6 cm (16"), Type HD: Full HD+, Résolution de l'écran: 1920 x 1200 pixels. Mémoire interne: 32 Go, Type de mémoire interne: DDR5-SDRAM. Capacité totale de stockage: 1 To, Supports de stockage: SSD. Modèle d'adaptateur graphique à bord: Intel® UHD Graphics, Modèle d'adaptateur graphique discrêt: NVIDIA RTX 2000 Ada. Système d'exploitation installé: Windows 11 Pro. Couleur du produit: Gris

Design

Product type *	Mobile workstation
Product colour *	Grey
Form factor *	Clamshell
Market positioning	Business
Introduction year	2023
Intel® vPro™ Platform Eligibility	✔

Display

Display diagonal *	40.6 cm (16")
Display resolution *	1920 x 1200 pixels
Touchscreen *	✘
HD type	Full HD+
Panel type	WLED
LED backlight	✔
Native aspect ratio	16:10
Anti-glare screen	✔
Display brightness	500 cd/m²
Pixel density	142 ppi
RGB colour space	DCI-P3
Colour gamut	100%
Maximum refresh rate	60 Hz
Contrast ratio (typical)	1300:1

Processor

Processor manufacturer *	Intel
Processor family *	Intel® Core™ i7
Processor generation	13th gen Intel® Core™ i7
Processor model *	i7-13850HX
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

Memory

Internal memory *	32 GB

Ports & interfaces

USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Ethernet LAN (RJ-45) ports	1
HDMI ports quantity *	1
Thunderbolt 4 ports quantity	2
Intel® Thunderbolt 4	✔
Combo headphone/mic port	✔
Power adapter barrel connector	7.4 mm

Performance

Ambient light sensor	✔
Accelerometer	✔
Hall sensor	✔

Keyboard

Pointing device	Touchpad
Keyboard language	German
Numeric keypad *	✔
Keyboard backlit	✔

Software

Operating system architecture	64-bit
Operating system language	Multilingual
Trial software	No Microsoft Office License Included 30 day Trial Offer Only
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)	✔
Intel Virtualization Technology (VT-x)	✔

Memory

Internal memory type	DDR5-SDRAM
Memory clock speed	5600 MHz
Memory form factor	CAMM module
Memory layout (slots x size)	1 x 32 GB
Maximum internal memory *	128 GB
Memory channels	Dual-channel
Non-ECC	✔

Storage

Total storage capacity *	1 TB
Storage media *	SSD
Total SSDs capacity	1 TB
Number of SSDs installed	1
SSD capacity	1 TB
SSD interface	PCI Express 4.0
NVMe	✔
SSD form factor	M.2
Optical drive type *	✘
Card reader integrated	✔
Compatible memory cards	SD, SDHC, SDXC

Graphics

Discrete graphics card model *	NVIDIA RTX 2000 Ada
Discrete graphics card memory	8 GB
Discrete graphics memory type	GDDR6
On-board graphics card *	✔
On-board GPU manufacturer	Intel
Discrete graphics card *	✔
On-board graphics card model *	Intel® UHD Graphics

Audio

Audio chip	Realtek ALC3281
Number of built-in speakers	2
Speaker power	2 W
Built-in microphone	✔
Number of microphones	2

Camera

Front camera	✔
Front camera resolution (numeric)	0.92 MP
Front camera resolution	1920 x 1080 pixels
Front camera HD type	Full HD
Video capturing speed	30 fps
Infrared (IR) camera	✔

Network

Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
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	✔
Ethernet LAN data rates	10,100,1000 Mbit/s
Bluetooth	✔

Ports & interfaces

USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2

Battery

Battery technology	Lithium-Ion (Li-Ion)
Number of battery cells	6
Battery capacity *	83 Wh
Battery voltage	11.55 V
Battery recharge time	3 h
Fast charging	✔
Battery weight	383 g

Power

AC adapter power	180 W
AC adapter frequency	50 - 60 Hz
AC adapter input voltage	100 - 240 V
AC adapter output current	9.23 A
AC adapter output voltage	19.5 V
DC-in jack	✔

Security

Cable lock slot	✔
Cable lock slot type	Wedge
Smart card reader	✔
Trusted Platform Module (TPM)	✔
Trusted Platform Module (TPM) version	2.0
Password protection	✔

Operational conditions

Operating temperature (T-T)	0 - 35 °C
Storage temperature (T-T)	-40 - 65 °C
Operating relative humidity (H-H)	10 - 90%
Storage relative humidity (H-H)	0 - 95%
Operating altitude	-15.2 - 3048 m
Non-operating altitude	-15.2 - 10668 m
Operating shock	110 G
Non-operating shock	160 G
Operating vibration	0.66 G
Non-operating vibration	1.3 G

Weight & dimensions

Width	356 mm
Depth	258.3 mm
Height (front)	2.23 cm
Height (rear)	2.32 cm
Weight *	2.6 kg

Carbon footprint

Total carbon footprint (kg of CO2e)	471
Total carbon emissions, standard deviation (kg of CO2e)	93
Carbon emissions, manufacturing (kg of CO2e)	386
Carbon emissions, logistics (kg of CO2e)	16
Carbon emissions, energy usage (kg of CO2e)	66
Carbon emissions, end-of-life (kg of CO2e)	2
Total carbon emissions, w/o use phase (kg of CO2e)	405
PAIA version	1.3.2

Packaging content

Cables included	AC

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