DELL

DELL Precision 5680 Intel® Core™ i9 i9-13900H Mobile workstation 40.6 cm (16") Touchscreen WQUXGA 32 GB LPDDR5-SDRAM 1 TB SSD NVIDIA RTX 3500 Ada Wi-Fi 6E (802.11ax) Windows 11 Pro Grey

Brand : DELL   **Product family:** Precision   **Product code:** H9HP2

Product name : 5680

- Windows 11 Pro 64-bit
- Intel Core i9-13900H (24MB Cache)
- 40.6 cm (16") WQUXGA 3840 x 2400 OLED Touch, NVIDIA RTX 3500 (12GB GDDR6)
- 32GB (6000MHz) LPDDR5-SDRAM & 1000GB SSD

Intel Core i9-13900H (24MB Cache), 32GB LPDDR5-SDRAM, 1000GB SSD, 40.6 cm (16") WQUXGA 3840 x 2400 OLED Touch, Intel Iris Xe Graphics, NVIDIA RTX 3500 (12GB GDDR6), WLAN, Webcam, Windows 11 Pro 64-bit

DELL Precision 5680 Intel® Core™ i9 i9-13900H Mobile workstation 40.6 cm (16") Touchscreen WQUXGA 32 GB LPDDR5-SDRAM 1 TB SSD NVIDIA RTX 3500 Ada Wi-Fi 6E (802.11ax) Windows 11 Pro Grey:

16-inch premium workstation for users who want high performance and a large display in a thin & light chassis. Featuring FHD-IR camera, haptics trackpad, and 4 'Grade A' speakers.

Design		**Network**	
Colour name	Titan Gray	WLAN controller manufacturer	Intel
Product type *	Mobile workstation	Ethernet LAN	✘
Product colour *	Grey	Bluetooth	✔
Form factor *	Clamshell	**Ports & interfaces**	
Housing material	Aluminium	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Market positioning	Business		
Intel® vPro™ Platform Eligibility	✔	HDMI ports quantity *	1
Display		HDMI version	2.0b
Display diagonal *	40.6 cm (16")	Thunderbolt 4 ports quantity	2
Display resolution *	3840 x 2400 pixels	Intel® Thunderbolt 4	✔
Touchscreen *	✔	Combo headphone/mic port	✔
HD type	WQUXGA	Charging port type	USB Type-C
Panel type	OLED	USB Type-C DisplayPort Alternate Mode	✔
LED backlight	✔		
Native aspect ratio	16:10	**Performance**	
Display brightness	400 cd/m²	Accelerometer	✔
Pixel density	283 ppi	**Keyboard**	
RGB colour space	DCI-P3	Pointing device	Trackpad
Colour gamut	100%	Keyboard language	UK English
Maximum refresh rate	60 Hz	Numeric keypad *	✘
Contrast ratio (typical)	100000:1	Keyboard backlit	✔
Processor		Keyboard number of keys	80
Processor manufacturer *	Intel	**Software**	
Processor family *	Intel® Core™ i9	Operating system architecture	64-bit
Processor generation	13th gen Intel® Core™ i9	Operating system language	Multilingual
Processor model *	i9-13900H	Trial software	No Microsoft Office License Included 30 day Trial Offer Only
Processor cores	14		
Processor boost frequency	5.4 GHz	Operating system installed *	Windows 11 Pro

Processor

Performance-core boost frequency	5.4 GHz
Efficient-core boost frequency	4.1 GHz
Processor cache	24 MB
Processor cache type	Smart Cache
Configurable TDP-down	35 W

Memory

Internal memory *	32 GB
Internal memory type	LPDDR5-SDRAM
Memory clock speed	6000 MHz
Memory form factor	On-board
Maximum internal memory *	32 GB

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
SSD performance class	40
Optical drive type *	✗
Card reader integrated	✓
Compatible memory cards	MicroSD (TransFlash), MicroSDHC, MicroSDXC

Graphics

Discrete graphics card model *	NVIDIA RTX 3500 Ada
Discrete graphics card memory	12 GB
Discrete graphics memory type	GDDR6
On-board graphics card *	✓
On-board GPU manufacturer	Intel
Discrete graphics card *	✓
On-board graphics card model *	Intel Iris Xe Graphics

Audio

Audio chip	Realtek ALC711-VD
Number of built-in speakers	4
Speaker power	8 W
Built-in microphone	✓
Number of microphones	2

Camera

Front camera	✓
Front camera resolution (numeric)	0.9 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, Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n), 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

Processor special features

CPU configuration (max)	1

Battery

Battery technology	Lithium-Ion (Li-Ion)
Number of battery cells	6
Battery capacity *	99.5 Wh
Battery voltage	11.55 V
Battery recharge time	3 h
Fast charging	✓
Battery weight	363 g

Power

AC adapter power	165 W
AC adapter frequency	50/60 Hz
AC adapter input voltage	100 - 240 V
USB charging voltage	20,5,9,15 V

Security

Cable lock slot	✓
Cable lock slot type	Wedge
Trusted Platform Module (TPM)	✓
Trusted Platform Module (TPM) version	2.0

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

Sustainability

Sustainability certificates	ENERGY STAR, EPEAT Gold

Weight & dimensions

Width	353.7 mm
Depth	240.3 mm
Height (front)	2.62 cm
Height (rear)	2.62 cm
Weight *	1.91 kg

Carbon footprint

Total carbon footprint	475 kg of CO2e
Total carbon emissions (Standard deviation)	92 kg of CO2e
Carbon emissions (Manufacturing)	398 kg of CO2e
Carbon emissions (Logistics)	25 kg of CO2e
Carbon emissions (Use)	49 kg of CO2e
Carbon emissions (End-of-Life)	3 kg of CO2e
Total carbon emissions (w/o Use phase)	426 kg of CO2e
PAIA version	1.3.2

Packaging content

Cables included	AC

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