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

Colour name	Titan Gray
Product type *	Mobile workstation
Product colour *	Grey
Form factor *	Clamshell
Housing material	Aluminium
Market positioning	Business
Intel® vPro™ Platform Eligibility	✓

Display

Display diagonal *	40.6 cm (16")
Display resolution *	3840 x 2400 pixels
Touchscreen *	✓
HD type	WQUXGA
Panel type	OLED
LED backlight	✓
Native aspect ratio	16:10
Display brightness	400 cd/m²
Pixel density	283 ppi
RGB colour space	DCI-P3
Colour gamut	100%
Maximum refresh rate	60 Hz
Contrast ratio (typical)	100000:1

Processor

Processor manufacturer *	Intel
Processor family *	Intel® Core™ i9
Processor generation	13th gen Intel® Core™ i9
Processor model *	i9-13900H
Processor cores	14
Processor boost frequency	5.4 GHz

Network

Ethernet LAN	✗
Bluetooth	✓

Ports & interfaces

USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
HDMI ports quantity *	1
HDMI version	2.0b
Thunderbolt 4 ports quantity	2
Intel® Thunderbolt 4	✓
Combo headphone/mic port	✓
Charging port type	USB Type-C
USB Type-C DisplayPort Alternate Mode	✓

Performance

Accelerometer	✓

Keyboard

Pointing device	Trackpad
Keyboard language	UK English
Numeric keypad *	✗
Keyboard backlit	✓
Keyboard number of keys	80

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

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
WLAN controller manufacturer	Intel

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 (kg of CO_2e)	475
Total carbon emissions, standard deviation (kg of CO_2e)	92
Carbon emissions, manufacturing (kg of CO_2e)	398
Carbon emissions, logistics (kg of CO_2e)	25
Carbon emissions, energy usage (kg of CO_2e)	49
Carbon emissions, end-of-life (kg of CO_2e)	3
Total carbon emissions, w/o use phase (kg of CO_2e)	426
PAIA version	1.3.2

Packaging content

Cables included	AC

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