



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	HDMI ports quantity *	1
Intel® vPro™ Platform Eligibility	✓	HDMI version	2.0b
Display		Thunderbolt 4 ports quantity	2
Display diagonal *	40.6 cm (16")	Intel® Thunderbolt 4	✓
Display resolution *	3840 x 2400 pixels	Combo headphone/mic port	✓
Touchscreen *	✓	Charging port type	USB Type-C
HD type	WQUXGA	USB Type-C DisplayPort Alternate Mode	✓
Panel type	OLED	Performance	
LED backlight	✓	Accelerometer	✓
Native aspect ratio	16:10	Keyboard	
Display brightness	400 cd/m ²	Pointing device	Trackpad
Pixel density	283 ppi	Keyboard language	UK English
RGB colour space	DCI-P3	Numeric keypad *	✗
Colour gamut	100%	Keyboard backlit	✓
Maximum refresh rate	60 Hz	Keyboard number of keys	80
Contrast ratio (typical)	100000:1	Software	
Processor		Operating system architecture	64-bit
Processor manufacturer *	Intel	Operating system language	Multilingual
Processor family *	Intel® Core™ i9	Trial software	No Microsoft Office License Included 30 day Trial Offer Only
Processor generation	13th gen Intel® Core™ i9	Operating system installed *	Windows 11 Pro
Processor model *	i9-13900H		
Processor cores	14		
Processor boost frequency	5.4 GHz		

Processor		Processor special features	
Performance-core boost frequency	5.4 GHz	CPU configuration (max)	1
Efficient-core boost frequency	4.1 GHz	Battery	
Processor cache	24 MB	Battery technology	Lithium-Ion (Li-Ion)
Processor cache type	Smart Cache	Number of battery cells	6
Configurable TDP-down	35 W	Battery capacity *	99.5 Wh
Memory		Battery voltage	11.55 V
Internal memory *	32 GB	Battery recharge time	3 h
Internal memory type	LPDDR5-SDRAM	Fast charging	✓
Memory clock speed	6000 MHz	Battery weight	363 g
Memory form factor	On-board	Power	
Maximum internal memory *	32 GB	AC adapter power	165 W
Storage		AC adapter frequency	50/60 Hz
Total storage capacity *	1 TB	AC adapter input voltage	100 - 240 V
Storage media *	SSD	USB charging voltage	20,5,9,15 V
Total SSDs capacity	1 TB	Security	
Number of SSDs installed	1	Cable lock slot	✓
SSD capacity	1 TB	Cable lock slot type	Wedge
SSD interface	PCI Express 4.0	Trusted Platform Module (TPM)	✓
NVMe	✓	Trusted Platform Module (TPM) version	2.0
SSD form factor	M.2	Operational conditions	
SSD performance class	40	Operating temperature (T-T)	0 - 35 °C
Optical drive type *	✗	Storage temperature (T-T)	-40 - 65 °C
Card reader integrated	✓	Operating relative humidity (H-H)	10 - 90%
Compatible memory cards	MicroSD (TransFlash), MicroSDHC, MicroSDXC	Storage relative humidity (H-H)	0 - 95%
Graphics		Operating altitude	-15.2 - 3048 m
Discrete graphics card model *	NVIDIA RTX 3500 Ada	Non-operating altitude	-15.2 - 10668 m
Discrete graphics card memory	12 GB	Operating shock	110 G
Discrete graphics memory type	GDDR6	Non-operating shock	160 G
On-board graphics card *	✓	Operating vibration	0.66 G
On-board GPU manufacturer	Intel	Non-operating vibration	1.3 G
Discrete graphics card *	✓	Sustainability	
On-board graphics card model *	Intel Iris Xe Graphics	Sustainability certificates	ENERGY STAR, EPEAT Gold
Audio		Weight & dimensions	
Audio chip	Realtek ALC711-VD	Width	353.7 mm
Number of built-in speakers	4	Depth	240.3 mm
Speaker power	8 W	Height (front)	2.62 cm
Built-in microphone	✓	Height (rear)	2.62 cm
Number of microphones	2	Weight *	1.91 kg
Camera		Carbon footprint	
Front camera	✓	Total carbon footprint	475 kg of CO2e
Front camera resolution (numeric)	0.9 MP	Total carbon emissions (Standard deviation)	92 kg of CO2e
Front camera resolution	1920 x 1080 pixels	Carbon emissions (Manufacturing)	398 kg of CO2e
Front camera HD type	Full HD	Carbon emissions (Logistics)	25 kg of CO2e
Video capturing speed	30 fps	Carbon emissions (Use)	49 kg of CO2e
Infrared (IR) camera	✓	Carbon emissions (End-of-Life)	3 kg of CO2e
Network		Total carbon emissions (w/o Use phase)	426 kg of CO2e
Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)	PAIA version	1.3.2
Wi-Fi standards	802.11a, Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 6E (802.11ax)	Packaging content	
Mobile network connection *	✗	Cables included	AC
Wi-Fi data rate (max)	2400 Mbit/s		
Antenna type	2x2		
WLAN controller model	Intel Wi-Fi 6E AX211		



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