



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 US International Grey

Brand : DELL

Product family: Precision

Product code: 8FWGN

Product name : 5680



DELL Precision 5680. Product type: Mobile workstation, Form factor: Clamshell. Processor family: Intel® Core™ i9, Processor model: i9-13900H. Display diagonal: 40.6 cm (16"), HD type: WQUXGA, Display resolution: 3840 x 2400 pixels, Touchscreen. Internal memory: 32 GB, Internal memory type: LPDDR5-SDRAM. Total storage capacity: 1 TB, Storage media: SSD. On-board graphics card model: Intel Iris Xe Graphics. Operating system installed: Windows 11 Pro. Product colour: Grey



Design		Network	
Colour name	Titan Gray	MIMO	✓
Product type *	Mobile workstation	MIMO type	Multi User MIMO
Product colour *	Grey	Ports & interfaces	
Form factor *	Clamshell	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Housing material	Aluminium	HDMI ports quantity *	1
Market positioning	Business	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 *	✓	USB Type-C DisplayPort Alternate Mode	✓
HD type	WQUXGA	Performance	
Panel type	OLED	Accelerometer	✓
LED backlight	✓	Keyboard	
Native aspect ratio	16:10	Pointing device	Trackpad
Display brightness	400 cd/m ²	Numeric keypad *	✗
Pixel density	283 ppi	Keyboard backlit	✓
RGB colour space	DCI-P3	Keyboard number of keys	79
Colour gamut	100%	Keyboard language	US International
Maximum refresh rate	60 Hz	Software	
Contrast ratio (typical)	100000:1	Operating system architecture	64-bit
Processor		Operating system language	Multilingual
Processor manufacturer *	Intel	Trial software	No Microsoft Office License Included 30 day Trial Offer Only
Processor family *	Intel® Core™ i9	Operating system installed *	Windows 11 Pro
Processor generation	13th gen Intel® Core™ i9		
Processor model *	i9-13900H		
Processor cores	14		
Processor boost frequency	5.4 GHz		
Performance-core boost frequency	5.4 GHz		

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



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