



DELL Precision 5680 Intel® Core™ i7 i7-13700H Mobile workstation 40.6 cm (16") Full HD+ 32 GB LPDDR5-SDRAM 1 TB SSD NVIDIA RTX A1000 Wi-Fi 6E (802.11ax) Windows 11 Pro Grey

Brand : DELL

Product family: Precision

Product code: GM1RT

Product name : 5680



- Windows 11 Pro 64-bit
- Intel Core i7-13700H (24MB Cache)
- 40.6 cm (16") Full HD+ 1920 x 1200 WLED, NVIDIA RTX A1000 (6GB GDDR6)
- 32GB (6000MHz) LPDDR5-SDRAM & 1000GB SSD

Intel Core i7-13700H (24MB Cache), 32GB LPDDR5-SDRAM, 1000GB SSD, 40.6 cm (16") Full HD+ 1920 x 1200 WLED, Intel Iris Xe Graphics, NVIDIA RTX A1000 (6GB GDDR6), WLAN, Webcam, Windows 11 Pro 64-bit

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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	Ethernet LAN	✗
Product type *	Mobile workstation	Bluetooth	✓
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
Intel® vPro™ Platform Eligibility	✓	Thunderbolt 4 ports quantity	2
Display		Intel® Thunderbolt 4	✓
Display diagonal *	40.6 cm (16")	Combo headphone/mic port	✓
Display resolution *	1920 x 1200 pixels	Charging port type	USB Type-C
Touchscreen *	✗	USB Type-C DisplayPort Alternate Mode	✓
HD type	Full HD+	Performance	
Panel type	WLED	Accelerometer	✓
LED backlight	✓	Keyboard	
Native aspect ratio	16:10	Pointing device	Trackpad
Anti-glare screen	✓	Keyboard language	UK English
Display brightness	500 cd/m ²	Numeric keypad *	✗
Pixel density	142 ppi	Keyboard backlight	✓
RGB colour space	DCI-P3	Keyboard number of keys	80
Colour gamut	100%	Software	
Maximum refresh rate	60 Hz	Operating system architecture	64-bit
Contrast ratio (typical)	1300:1	Operating system language	Multilingual
Processor		Trial software	No Microsoft Office License Included 30 day Trial Offer Only
Processor manufacturer *	Intel	Operating system installed *	Windows 11 Pro
Processor family *	Intel® Core™ i7		
Processor generation	13th gen Intel® Core™ i7		
Processor model *	i7-13700H		
Processor cores	14		

Processor		Processor special features	
Processor boost frequency	5 GHz	CPU configuration (max)	1
Performance-core boost frequency	5 GHz	Battery	
Efficient-core boost frequency	3.7 GHz	Battery technology	Lithium-Ion (Li-Ion)
Processor cache	24 MB	Number of battery cells	6
Processor cache type	Smart Cache	Battery capacity *	99.5 Wh
Configurable TDP-down	35 W	Battery voltage	11.55 V
Memory		Battery recharge time	3 h
Internal memory *	32 GB	Fast charging	✓
Internal memory type	LPDDR5-SDRAM	Battery weight	363 g
Memory clock speed	6000 MHz	Power	
Memory form factor	On-board	AC adapter power	165 W
Maximum internal memory *	32 GB	AC adapter frequency	50/60 Hz
Storage		AC adapter input voltage	100 - 240 V
Total storage capacity *	1 TB	USB charging voltage	20,5,9,15 V
Storage media *	SSD	Security	
Total SSDs capacity	1 TB	Cable lock slot	✓
Number of SSDs installed	1	Cable lock slot type	Wedge
SSD capacity	1 TB	Trusted Platform Module (TPM)	✓
SSD interface	PCI Express 4.0	Trusted Platform Module (TPM) version	2.0
NVMe	✓	Operational conditions	
SSD form factor	M.2	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 A1000	Non-operating altitude	-15.2 - 10668 m
Discrete graphics card memory	6 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 (kg of CO2e)	475
Front camera resolution (numeric)	0.9 MP	Total carbon emissions, standard deviation (kg of CO2e)	92
Front camera resolution	1920 x 1080 pixels	Carbon emissions, manufacturing (kg of CO2e)	398
Front camera HD type	Full HD	Carbon emissions, logistics (kg of CO2e)	25
Video capturing speed	30 fps	Carbon emissions, energy usage (kg of CO2e)	49
Infrared (IR) camera	✓	Carbon emissions, end-of-life (kg of CO2e)	3
Network		Total carbon emissions, w/o use phase (kg of CO2e)	426
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		
WLAN controller manufacturer	Intel		



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