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 2000 Ada Wi-Fi 6E (802.11ax) Windows 11 Pro Grey

Brand : DELL   **Product family:** Precision   **Product code:** V10VM

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 2000 (8GB 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 2000 (8GB GDDR6), WLAN, Webcam, Windows 11 Pro 64-bit

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 2000 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 *	1920 x 1200 pixels
Touchscreen *	✘
HD type	Full HD+
Panel type	WLED
LED backlight	✓
Native aspect ratio	16:10
Anti-glare screen	✓
Display brightness	500 cd/m²
Pixel density	142 ppi
RGB colour space	DCI-P3
Colour gamut	100%
Maximum refresh rate	60 Hz
Contrast ratio (typical)	1300:1

Processor

Processor manufacturer *	Intel
Processor family *	Intel® Core™ i7
Processor generation	13th gen Intel® Core™ i7
Processor model *	i7-13700H
Processor cores	14

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

Processor boost frequency	5 GHz
Performance-core boost frequency	5 GHz
Efficient-core boost frequency	3.7 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 2000 Ada
Discrete graphics card memory	8 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 CO2e)	475
Total carbon emissions, standard deviation (kg of CO2e)	92
Carbon emissions, manufacturing (kg of CO2e)	398
Carbon emissions, logistics (kg of CO2e)	25
Carbon emissions, energy usage (kg of CO2e)	49
Carbon emissions, end-of-life (kg of CO2e)	3
Total carbon emissions, w/o use phase (kg of CO2e)	426
PAIA version	1.3.2

Packaging content

Cables included	AC

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