



DELL Precision 3581 Intel® Core™ i7 i7-13700H Mobile workstation 39.6 cm (15.6") Full HD 16 GB DDR5-SDRAM 512 GB SSD NVIDIA RTX A1000 Wi-Fi 6E (802.11ax) Windows 11 Pro US International Grey

Brand : DELL

Product family: Precision

Product code: W18NX

Product name : 3581



DELL Precision 3581. Product type: Mobile workstation, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-13700H. Display diagonal: 39.6 cm (15.6"), HD type: Full HD, Display resolution: 1920 x 1080 pixels. Internal memory: 16 GB, Internal memory type: DDR5-SDRAM. Total storage capacity: 512 GB, Storage media: SSD. On-board graphics card model: Intel Iris Xe Graphics, Discrete graphics card model: NVIDIA RTX A1000. Operating system installed: Windows 11 Pro. Product colour: Grey

Design		Network	
Product type *	Mobile workstation	Antenna type	2x2
Product colour *	Grey	WLAN controller model	Intel Wi-Fi 6E AX211
Form factor *	Clamshell	WLAN controller manufacturer	Intel
Market positioning	Business	Ethernet LAN	✓
Display		Ethernet LAN data rates	10,100,1000 Mbit/s
Display diagonal *	39.6 cm (15.6")	Bluetooth	✓
Display resolution *	1920 x 1080 pixels	Ports & interfaces	
Touchscreen *	✗	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
HD type	Full HD	Ethernet LAN (RJ-45) ports	1
Panel type	IPS	HDMI ports quantity *	1
LED backlight	✓	HDMI version	2.0
Native aspect ratio	16:9	Thunderbolt 4 ports quantity	2
Anti-glare screen	✓	Intel® Thunderbolt 4	✓
Display brightness	400 cd/m ²	Combo headphone/mic port	✓
Pixel density	141 ppi	USB Type-C DisplayPort Alternate Mode	✓
RGB colour space	sRGB	PowerShare	✓
Colour gamut	100%	Number of USB ports with PowerShare support	1
Maximum refresh rate	60 Hz	Keyboard	
Contrast ratio (typical)	800:1	Pointing device	Touchpad
Processor		Numeric keypad *	✓
Processor manufacturer *	Intel	Keyboard backlight	✓
Processor family *	Intel® Core™ i7	Keyboard language	US International
Processor generation	13th gen Intel® Core™ i7	Software	
Processor model *	i7-13700H	Operating system architecture	64-bit
Processor cores	14		
Processor boost frequency	5 GHz		
Performance cores	6		
Efficient cores	8		

Processor		Software	
Performance-core Max Turbo Frequency	5 GHz	Operating system language	Danish, Dutch, English, French, Italian
Efficient-core Max Turbo Frequency	3.7 GHz	Trial software	No Microsoft Office License Included 30 day Trial Offer Only
Processor cache	24 MB	Operating system installed *	Windows 11 Pro
Processor cache type	Smart Cache	Battery	
Processor base power	45 W	Battery technology	Lithium-Ion (Li-Ion)
Maximum turbo power	115 W	Number of battery cells	4
Memory		Battery capacity *	64 Wh
Internal memory *	16 GB	Battery voltage	15.2 V
Internal memory type	DDR5-SDRAM	Battery recharge time	3 h
Memory form factor	SO-DIMM	Fast charging	✓
Memory layout (slots x size)	1 x 16 GB	Battery weight	280 g
Memory slots	2x SO-DIMM	Power	
Maximum internal memory *	64 GB	AC adapter power	130 W
Memory data transfer rate	4800 MT/s	AC adapter frequency	50/60 Hz
Non-ECC	✓	AC adapter input voltage	100 - 240 V
Storage		USB Type-C charging port *	✓
Total storage capacity *	512 GB	USB Power Delivery (USB PD)	✓
Storage media *	SSD	USB charging voltage	20,5,9,15 V
Total SSDs capacity	512 GB	Security	
Number of SSDs installed	1	Cable lock slot	✓
SSD capacity	512 GB	Cable lock slot type	Wedge
SSD interface	PCI Express 4.0	Smart card reader	✓
NVMe	✓	Trusted Platform Module (TPM)	✓
SSD form factor	M.2	Trusted Platform Module (TPM) version	2.0
SSD performance class	35	Operational conditions	
Optical drive type *	✗	Operating temperature (T-T)	0 - 35 °C
Card reader integrated	✗	Storage temperature (T-T)	-40 - 65 °C
Graphics		Operating relative humidity (H-H)	10 - 90%
Discrete graphics card model *	NVIDIA RTX A1000	Storage relative humidity (H-H)	0 - 95%
Discrete graphics card memory	6 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 family	Intel Iris Xe Graphics	Non-operating vibration	1.3 G
On-board graphics card model *	Intel Iris Xe Graphics	Weight & dimensions	
Audio		Width	357.8 mm
Audio system	MaxxAudio	Depth	233.3 mm
Number of built-in speakers	2	Height (front)	2.27 cm
Speakers manufacturer	Waves	Height (rear)	2.47 cm
Speaker power	2 W	Weight *	1.79 kg
Built-in microphone	✓	Carbon footprint	
Number of microphones	2	Total carbon footprint (kg of CO2e)	343
Camera		Total carbon emissions, standard deviation (kg of CO2e)	70
Front camera	✓	Carbon emissions, manufacturing (kg of CO2e)	294
Front camera resolution (numeric)	2.07 MP	Carbon emissions, logistics (kg of CO2e)	13
Front camera resolution	1920 x 1080 pixels	Carbon emissions, energy usage (kg of CO2e)	34
Front camera HD type	Full HD	Carbon emissions, end-of-life (kg of CO2e)	2
Video capturing speed	30 fps	Total carbon emissions, w/o use phase (kg of CO2e)	309
Infrared (IR) camera	✓	PAIA version	1.3.2
Privacy camera	✓		
Privacy type	Privacy shutter		
Network			
Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)		

Network		Packaging content	
Wi-Fi standards	Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 6E (802.11ax)	Cables included	AC
Mobile network connection *	✘		



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