



# 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 Belgian Grey

Brand : DELL

Product family: Precision

Product code: CJ31N

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	WLAN controller model	Intel Wi-Fi 6E AX211
Product colour *	Grey	WLAN controller manufacturer	Intel
Form factor *	Clamshell	Ethernet LAN	✓
Market positioning	Business	Ethernet LAN data rates	10,100,1000 Mbit/s
Intel® vPro™ Platform Eligibility	✓	Bluetooth	✓
		WWAN	Upgradable
Display		Ports & interfaces	
Display diagonal *	39.6 cm (15.6")	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Display resolution *	1920 x 1080 pixels	Ethernet LAN (RJ-45) ports	1
Touchscreen *	✗	HDMI ports quantity *	1
HD type	Full HD	HDMI version	2.0
Panel type	IPS	Thunderbolt 4 ports quantity	2
LED backlight	✓	Intel® Thunderbolt 4	✓
Native aspect ratio	16:9	Combo headphone/mic port	✓
Anti-glare screen	✓	USB Type-C DisplayPort Alternate Mode	✓
Display brightness	400 cd/m <sup>2</sup>	PowerShare	✓
Pixel density	141 ppi	Number of USB ports with PowerShare support	1
RGB colour space	sRGB		
Colour gamut	100%		
Maximum refresh rate	60 Hz		
Contrast ratio (typical)	800:1		
Processor		Keyboard	
Processor manufacturer *	Intel	Pointing device	Touchpad
Processor family *	Intel® Core™ i7	Numeric keypad *	✓
Processor generation	13th gen Intel® Core™ i7	Keyboard backlit	✓
Processor model *	i7-13700H	Keyboard number of keys	100
Processor cores	14	Keyboard language	Belgian
Processor threads	20		

<b>Processor</b>		<b>Software</b>	
Processor boost frequency	5 GHz	Operating system architecture	64-bit
Performance cores	6	Operating system language	Multilingual
Efficient cores	8	Trial software	No Microsoft Office License Included 30 day Trial Offer Only
Performance-core Max Turbo Frequency	5 GHz	Operating system installed *	Windows 11 Pro
Efficient-core Max Turbo Frequency	3.7 GHz	Bundled software	Windows System Driver
Processor cache	24 MB	<b>Processor special features</b>	
Processor cache type	Smart Cache	CPU configuration (max)	1
Configurable TDP-down	35 W	<b>Battery</b>	
Processor base power	45 W	Battery technology	Lithium-Ion (Li-Ion)
Maximum turbo power	115 W	Number of battery cells	4
<b>Memory</b>		Battery capacity *	64 Wh
Internal memory *	16 GB	Battery voltage	15.2 V
Internal memory type	DDR5-SDRAM	Battery recharge time	3 h
Memory clock speed	4800 MHz	Fast charging	✓
Memory form factor	SO-DIMM	Battery weight	280 g
Memory layout (slots x size)	1 x 16 GB	<b>Power</b>	
Memory slots	2x SO-DIMM	AC adapter power	130 W
Maximum internal memory *	64 GB	AC adapter frequency	50/60 Hz
<b>Storage</b>		AC adapter input voltage	100 - 240 V
Total storage capacity *	512 GB	USB Type-C charging port *	✓
Storage media *	SSD	USB Power Delivery (USB PD)	✓
Total SSDs capacity	512 GB	USB charging voltage	20,5 V
Number of SSDs installed	1	USB charging current	6.5 A
SSD capacity	512 GB	<b>Security</b>	
SSD interface	PCI Express 4.0	Cable lock slot	✓
NVMe	✓	Cable lock slot type	Wedge
SSD form factor	M.2	Smart card reader	✓
SSD performance class	35	Trusted Platform Module (TPM)	✓
Optical drive type *	✗	Trusted Platform Module (TPM) version	2.0
Card reader integrated	✗	<b>Operational conditions</b>	
<b>Graphics</b>		Operating temperature (T-T)	0 - 35 °C
Discrete GPU manufacturer	NVIDIA	Storage temperature (T-T)	-40 - 65 °C
Discrete graphics card model *	NVIDIA RTX A1000	Operating relative humidity (H-H)	10 - 90%
Discrete graphics card memory	6 GB	Storage relative humidity (H-H)	0 - 95%
Discrete graphics memory type	GDDR6	Operating altitude	-15.2 - 3048 m
On-board graphics card *	✓	Non-operating altitude	-15.2 - 10668 m
On-board GPU manufacturer	Intel	Operating shock	110 G
Discrete graphics card *	✓	Non-operating shock	160 G
On-board graphics card family	Intel Iris Xe Graphics	Operating vibration	0.66 G
On-board graphics card model *	Intel Iris Xe Graphics	Non-operating vibration	1.3 G
<b>Audio</b>		<b>Weight &amp; dimensions</b>	
Audio system	MaxxAudio	Width	357.8 mm
Number of built-in speakers	2	Depth	233.3 mm
Speakers manufacturer	Waves	Height (front)	2.27 cm
Speaker power	2 W	Height (rear)	2.47 cm
Built-in microphone	✓	Weight *	1.79 kg
Number of microphones	2	<b>Carbon footprint</b>	
<b>Camera</b>		Total carbon footprint (kg of CO2e)	343
Front camera	✓	Total carbon emissions, standard deviation (kg of CO2e)	70
Front camera resolution (numeric)	2.07 MP	Carbon emissions, manufacturing (kg of CO2e)	294
Front camera resolution	1920 x 1080 pixels	Carbon emissions, logistics (kg of CO2e)	13
Front camera HD type	Full HD	Carbon emissions, energy usage (kg of CO2e)	34
Video capturing speed	30 fps		
Infrared (IR) camera	✓		
Privacy camera	✓		
Privacy type	Privacy shutter		

Network		Carbon footprint	
Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)	Carbon emissions, end-of-life (kg of CO2e)	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)	Total carbon emissions, w/o use phase (kg of CO2e)	309
Mobile network connection *	✗	PAIA version	1.3.2
Wi-Fi data rate (max)	2400 Mbit/s	<b>Packaging content</b>	
Antenna type	2x2	Cables included	AC



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