



**DELL Precision 3581 Intel® Core™ i7 i7-13700H Mobile workstation 39.6 cm (15.6") Full HD 32 GB DDR5-SDRAM 512 GB SSD NVIDIA RTX A1000 Wi-Fi 6E (802.11ax) Windows 11 Pro Grey**

Brand : DELL

Product family: Precision

Product code: JJJ59

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

<b>Processor</b>		<b>Software</b>	
Performance-core Max Turbo Frequency	5 GHz	Operating system architecture	64-bit
Efficient-core Max Turbo Frequency	3.7 GHz	Operating system language	German, Dutch, English, French, Italian
Processor cache	24 MB	Trial software	No Microsoft Office License Included 30 day Trial Offer Only
Processor cache type	Smart Cache	Operating system installed *	Windows 11 Pro
Processor base power	45 W	<b>Battery</b>	
Maximum turbo power	115 W	Battery technology	Lithium-Ion (Li-Ion)
<b>Memory</b>		Number of battery cells	4
Internal memory *	32 GB	Battery capacity *	64 Wh
Internal memory type	DDR5-SDRAM	Battery voltage	15.2 V
Memory form factor	SO-DIMM	Battery recharge time	3 h
Memory layout (slots x size)	2 x 16 GB	Fast charging	✓
Memory slots	2x SO-DIMM	Battery weight	280 g
Maximum internal memory *	64 GB	<b>Power</b>	
Memory data transfer rate	4800 MT/s	AC adapter power	130 W
Non-ECC	✓	AC adapter frequency	50/60 Hz
<b>Storage</b>		AC adapter input voltage	100 - 240 V
Total storage capacity *	512 GB	USB charging voltage	20,5,9,15 V
Storage media *	SSD	<b>Security</b>	
Total SSDs capacity	512 GB	Cable lock slot	✓
Number of SSDs installed	1	Cable lock slot type	Wedge
SSD capacity	512 GB	Smart card reader	✓
SSD interface	PCI Express 4.0	Trusted Platform Module (TPM)	✓
NVMe	✓	Trusted Platform Module (TPM) version	2.0
SSD form factor	M.2	<b>Operational conditions</b>	
SSD performance class	35	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%
<b>Graphics</b>		Storage relative humidity (H-H)	0 - 95%
Discrete graphics card model *	NVIDIA RTX A1000	Operating altitude	-15.2 - 3048 m
Discrete graphics card memory	6 GB	Non-operating altitude	-15.2 - 10668 m
Discrete graphics memory type	GDDR6	Operating shock	110 G
On-board graphics card *	✓	Non-operating shock	160 G
On-board GPU manufacturer	Intel	Operating vibration	0.66 G
Discrete graphics card *	✓	Non-operating vibration	1.3 G
On-board graphics card family	Intel Iris Xe Graphics	<b>Weight &amp; dimensions</b>	
On-board graphics card model *	Intel Iris Xe Graphics	Width	357.8 mm
<b>Audio</b>		Depth	233.3 mm
Audio system	MaxxAudio	Height (front)	2.27 cm
Number of built-in speakers	2	Height (rear)	2.47 cm
Speakers manufacturer	Waves	Weight *	1.79 kg
Speaker power	2 W	<b>Carbon footprint</b>	
Built-in microphone	✓	Total carbon footprint	343 kg of CO2e
Number of microphones	2	Total carbon emissions (Standard deviation)	70 kg of CO2e
<b>Camera</b>		Carbon emissions (Manufacturing)	294 kg of CO2e
Front camera	✓	Carbon emissions (Logistics)	13 kg of CO2e
Front camera resolution (numeric)	2.07 MP	Carbon emissions (Energy Usage)	34 kg of CO2e
Front camera resolution	1920 x 1080 pixels	Carbon emissions (End-of-Life)	2 kg of CO2e
Front camera HD type	Full HD	Total carbon emissions (w/o Use phase)	309 kg of CO2e
Video capturing speed	30 fps	PAIA version	1.3.2
Infrared (IR) camera	✓	<b>Packaging content</b>	
Privacy camera	✓	Cables included	AC
Privacy type	Privacy shutter		
<b>Network</b>			
Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)		
Wi-Fi standards	Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 6E (802.11ax)		



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