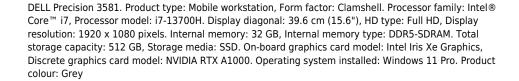# DELL Precision 3581 Intel® Core™ i7 i7-13700H Mobile workstation 39.6 cm (15.6") Full HD 32 GB DDR5-SDRAM 512 GB SSD NVIDIA RTX A1000 Wi-Fi 6E (802.11ax) Windows 11 Pro Grey

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

Product type *	Mobile workstation
Product colour *	Grey
Form factor *	Clamshell
Market positioning	Business

Display

Display diagonal *	39.6 cm (15.6")
Display resolution *	1920 x 1080 pixels
Touchscreen *	✘
HD type	Full HD
Panel type	IPS
LED backlight	✔
Native aspect ratio	16:9
Anti-glare screen	✔
Display brightness	400 cd/m²
Pixel density	141 ppi
RGB colour space	sRGB
Colour gamut	100%
Maximum refresh rate	60 Hz
Contrast ratio (typical)	800:1

Processor

Processor manufacturer *	Intel
Processor family *	Intel® Core™ i7
Processor generation	13th gen Intel® Core™ i7
Processor model *	i7-13700H
Processor cores	14
Processor boost frequency	5 GHz
Performance cores	6
Efficient cores	8

Network

Mobile network connection *	✘
Antenna type	2x2
WLAN controller model	Intel Wi-Fi 6E AX211
WLAN controller manufacturer	Intel
Ethernet LAN	✔
Ethernet LAN data rates	10,100,1000 Mbit/s
Bluetooth	✔

Ports & interfaces

USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Ethernet LAN (RJ-45) ports	1
HDMI ports quantity *	1
HDMI version	2.0
Thunderbolt 4 ports quantity	2
Intel® Thunderbolt 4	✔
Combo headphone/mic port	✔
Charging port type	USB Type-C
USB Type-C DisplayPort Alternate Mode	✔
USB Power Delivery	✔
PowerShare	✔
Number of USB ports with PowerShare support	1

Keyboard

Pointing device	Touchpad
Keyboard language	German
Numeric keypad *	✔
Keyboard backlit	✔

Processor

Performance-core Max Turbo Frequency	5 GHz
Efficient-core Max Turbo Frequency	3.7 GHz
Processor cache	24 MB
Processor cache type	Smart Cache
Processor base power	45 W
Maximum turbo power	115 W

Memory

Internal memory *	32 GB
Internal memory type	DDR5-SDRAM
Memory form factor	SO-DIMM
Memory layout (slots x size)	2 x 16 GB
Memory slots	2x SO-DIMM
Maximum internal memory *	64 GB
Memory data transfer rate	4800 MT/s
Non-ECC	✓

Storage

Total storage capacity *	512 GB
Storage media *	SSD
Total SSDs capacity	512 GB
Number of SSDs installed	1
SSD capacity	512 GB
SSD interface	PCI Express 4.0
NVMe	✓
SSD form factor	M.2
SSD performance class	35
Optical drive type *	✗
Card reader integrated	✗

Graphics

Discrete graphics card model *	NVIDIA RTX A1000
Discrete graphics card memory	6 GB
Discrete graphics memory type	GDDR6
On-board graphics card *	✓
On-board GPU manufacturer	Intel
Discrete graphics card *	✓
On-board graphics card family	Intel Iris Xe Graphics
On-board graphics card model *	Intel Iris Xe Graphics

Audio

Audio system	MaxxAudio
Number of built-in speakers	2
Speakers manufacturer	Waves
Speaker power	2 W
Built-in microphone	✓
Number of microphones	2

Camera

Front camera	✓
Front camera resolution (numeric)	2.07 MP
Front camera resolution	1920 x 1080 pixels
Front camera HD type	Full HD
Video capturing speed	30 fps
Infrared (IR) camera	✓
Privacy camera	✓
Privacy type	Privacy shutter

Network

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)

Software

Operating system architecture	64-bit
Operating system language	German, Dutch, English, French, Italian
Trial software	No Microsoft Office License Included 30 day Trial Offer Only
Operating system installed *	Windows 11 Pro

Battery

Battery technology	Lithium-Ion (Li-Ion)
Number of battery cells	4
Battery capacity *	64 Wh
Battery voltage	15.2 V
Battery recharge time	3 h
Fast charging	✓
Battery weight	280 g

Power

AC adapter power	130 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
Smart card reader	✓
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

Weight & dimensions

Width	357.8 mm
Depth	233.3 mm
Height (front)	2.27 cm
Height (rear)	2.47 cm
Weight *	1.79 kg

Carbon footprint

Total carbon footprint	343 kg of CO2e
Total carbon emissions (Standard deviation)	70 kg of CO2e
Carbon emissions (Manufacturing)	294 kg of CO2e
Carbon emissions (Logistics)	13 kg of CO2e
Carbon emissions (Use)	34 kg of CO2e
Carbon emissions (End-of-Life)	2 kg of CO2e
Total carbon emissions (w/o Use phase)	309 kg of CO2e
PAIA version	1.3.2

Packaging content

Cables included	AC

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