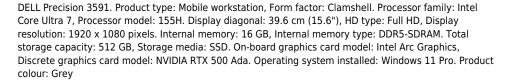# DELL Precision 3591 Intel Core Ultra 7 155H Mobile workstation 39.6 cm (15.6") Full HD 16 GB DDR5-SDRAM 512 GB SSD NVIDIA RTX 500 Ada Wi-Fi 6E (802.11ax) Windows 11 Pro Grey

Brand : DELL   **Product family:** Precision   **Product code:** P63K7

Product name : 3591

DELL Precision 3591. Product type: Mobile workstation, Form factor: Clamshell. Processor family: Intel Core Ultra 7, Processor model: 155H. 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 Arc Graphics, Discrete graphics card model: NVIDIA RTX 500 Ada. Operating system installed: Windows 11 Pro. Product colour: Grey

Design		Camera	
Product type *	Mobile workstation	Video capturing speed	30 fps
Product colour *	Grey	Privacy camera	✔
Form factor *	Clamshell	Privacy type	Privacy shutter
Market positioning	Business	**Network**	
Intel® vPro™ Platform Eligibility	✔	Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
Display		Wi-Fi standards	Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 6E (802.11ax)
Display diagonal *	39.6 cm (15.6")		
Display resolution *	1920 x 1080 pixels	Mobile network connection *	✘
Touchscreen *	✘	Wi-Fi data rate (max)	2400 Mbit/s
HD type	Full HD	Antenna type	2x2
Panel type	IPS	WLAN controller model	Intel Wi-Fi 6E AX211
LED backlight	✔	WLAN controller manufacturer	Intel
Native aspect ratio	16:9	Ethernet LAN	✔
Anti-glare screen	✔	Ethernet LAN data rates	10,100,1000 Mbit/s
Display brightness	400 cd/m²	Bluetooth	✔
Pixel density	141 ppi	WWAN	Upgradable
RGB colour space	sRGB	MIMO	✔
Colour gamut	100%	MIMO type	Multi User MIMO
Maximum refresh rate	60 Hz	**Ports & interfaces**	
Contrast ratio (typical)	800:1	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Processor		Ethernet LAN (RJ-45) ports	1
Processor manufacturer *	Intel	HDMI ports quantity *	1
Processor family *	Intel Core Ultra 7	HDMI version	2.1
Processor generation	Intel® Core™ Ultra (Series 1)	Thunderbolt 4 ports quantity	2
Processor model *	155H	Intel® Thunderbolt 4	✔
Processor cores	16	Combo headphone/mic port	✔
Processor threads	22		

Processor

Processor boost frequency	4.8 GHz
Performance cores	6
Efficient cores	8
Low Power Efficient-cores	2
Performance-core Max Turbo Frequency	4.8 GHz
Efficient-core Max Turbo Frequency	3.8 GHz
Low Power Efficient-core Max Turbo Frequency	2.5 GHz
Performance-core base frequency	1.4 GHz
Efficient-core base frequency	0.9 GHz
Low Power Efficient-core Base Frequency	700 MHz
Processor cache	24 MB
Processor cache type	Smart Cache
Processor base power	28 W
Maximum turbo power	115 W

Neural processor unit (NPU)

Neural processor unit (NPU)	Intel AI Boost
Maximum frequency NPU	1.4 GHz
Sparsity support	✔
Windows Studio effects support	✔
AI datatype support on NPU	FP16, FP32, Int8
AI software frameworks supported by NPU	DirectML, ONNX RT, OpenVINO, Windows ML

Memory

Internal memory *	16 GB
Internal memory type	DDR5-SDRAM
Memory form factor	SO-DIMM
Memory layout (slots x size)	1 x 16 GB
Memory slots	2x SO-DIMM
Maximum internal memory *	64 GB
Memory data transfer rate	5600 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
M.2 SSD size	2230 (22 x 30 mm)
Optical drive type *	✗
Card reader integrated	✔
Compatible memory cards	MicroSD (TransFlash), MicroSDHC, MicroSDXC

Graphics

Discrete graphics card model *	NVIDIA RTX 500 Ada
Discrete graphics card memory	4 GB
Discrete graphics memory type	GDDR6
On-board graphics card *	✔
On-board GPU manufacturer	Intel
Discrete graphics card *	✔
On-board graphics card family	Intel Arc Graphics
On-board graphics card model *	Intel Arc Graphics

Ports & interfaces

Charging port type	USB Type-C
USB Type-C DisplayPort Alternate Mode	✔
PowerShare	✔
Number of USB ports with PowerShare support	1

Keyboard

Pointing device	Touchpad
Keyboard language	Nordic
Numeric keypad *	✔
Keyboard backlit	✔
Keyboard number of keys	100

Software

Operating system architecture	64-bit
Operating system language	Danish, English, Finnish, Norwegian, Swedish
Trial software	No Microsoft Office Licence Included - 30 day Trial Offer Only
Operating system installed *	Windows 11 Pro

Battery

Number of battery cells	4
Battery capacity *	64 Wh
Battery voltage	15.2 V
Battery recharge time	3 h
Fast charging	✔
Battery charge indicator	✔
Battery weight	280 g

Power

AC adapter power	130 W
AC adapter frequency	50 - 60 Hz
AC adapter input voltage	100 - 240 V
USB Power Delivery (USB PD) *	✔
USB charging voltage	5,20 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

Sustainability

Sustainability compliance	✔
Sustainability certificates	ENERGY STAR, TCO

Weight & dimensions

Width	357.8 mm

Audio

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

Weight & dimensions

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

Carbon footprint

Total carbon footprint (kg of CO2e)	120
Carbon emissions, manufacturing (kg of CO2e)	84
Carbon emissions, logistics (kg of CO2e)	5
Carbon emissions, energy usage (kg of CO2e)	31
Carbon emissions, end-of-life (kg of CO2e)	1
Total carbon emissions, w/o use phase (kg of CO2e)	89
PAIA version	GaBi version 1, 2024

Packaging content

Cables included	AC

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