



## 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	<b>Network</b>	
Intel® vPro™ Platform Eligibility	✓	Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
<b>Display</b>		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")	Mobile network connection *	✗
Display resolution *	1920 x 1080 pixels	Wi-Fi data rate (max)	2400 Mbit/s
Touchscreen *	✗	Antenna type	2x2
HD type	Full HD	WLAN controller model	Intel Wi-Fi 6E AX211
Panel type	IPS	WLAN controller manufacturer	Intel
LED backlight	✓	Ethernet LAN	✓
Native aspect ratio	16:9	Ethernet LAN data rates	10,100,1000 Mbit/s
Anti-glare screen	✓	Bluetooth	✓
Display brightness	400 cd/m <sup>2</sup>	WWAN	Upgradable
Pixel density	141 ppi	MIMO	✓
RGB colour space	sRGB	MIMO type	Multi User MIMO
Colour gamut	100%	<b>Ports &amp; interfaces</b>	
Maximum refresh rate	60 Hz	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Contrast ratio (typical)	800:1	Ethernet LAN (RJ-45) ports	1
<b>Processor</b>		HDMI ports quantity *	1
Processor manufacturer *	Intel	HDMI version	2.1
Processor family *	Intel Core Ultra 7	Thunderbolt 4 ports quantity	2
Processor generation	Intel® Core™ Ultra (Series 1)	Intel® Thunderbolt 4	✓
Processor model *	155H	Combo headphone/mic port	✓
Processor cores	16		
Processor threads	22		

<b>Processor</b>		<b>Ports &amp; interfaces</b>	
Processor boost frequency	4.8 GHz	Charging port type	USB Type-C
Performance cores	6	USB Type-C DisplayPort Alternate Mode	✓
Efficient cores	8	PowerShare	✓
Low Power Efficient-cores	2	Number of USB ports with PowerShare support	1
Performance-core Max Turbo Frequency	4.8 GHz	<b>Keyboard</b>	
Efficient-core Max Turbo Frequency	3.8 GHz	Pointing device	Touchpad
Low Power Efficient-core Max Turbo Frequency	2.5 GHz	Keyboard language	Nordic
Performance-core base frequency	1.4 GHz	Numeric keypad *	✓
Efficient-core base frequency	0.9 GHz	Keyboard backlit	✓
Low Power Efficient-core Base Frequency	700 MHz	Keyboard number of keys	100
Processor cache	24 MB	<b>Software</b>	
Processor cache type	Smart Cache	Operating system architecture	64-bit
Processor base power	28 W	Operating system language	Danish, English, Finnish, Norwegian, Swedish
Maximum turbo power	115 W	Trial software	No Microsoft Office Licence Included - 30 day Trial Offer Only
<b>Neural processor unit (NPU)</b>		Operating system installed *	Windows 11 Pro
Neural processor unit (NPU)	Intel AI Boost	<b>Battery</b>	
Maximum frequency NPU	1.4 GHz	Number of battery cells	4
Sparsity support	✓	Battery capacity *	64 Wh
Windows Studio effects support	✓	Battery voltage	15.2 V
AI datatype support on NPU	FP16, FP32, Int8	Battery recharge time	3 h
AI software frameworks supported by NPU	DirectML, ONNX RT, OpenVINO, Windows ML	Fast charging	✓
<b>Memory</b>		Battery charge indicator	✓
Internal memory *	16 GB	Battery weight	280 g
Internal memory type	DDR5-SDRAM	<b>Power</b>	
Memory form factor	SO-DIMM	AC adapter power	130 W
Memory layout (slots x size)	1 x 16 GB	AC adapter frequency	50 - 60 Hz
Memory slots	2x SO-DIMM	AC adapter input voltage	100 - 240 V
Maximum internal memory *	64 GB	USB Power Delivery (USB PD) *	✓
Memory data transfer rate	5600 MT/s	USB charging voltage	5,20 V
Non-ECC	✓	<b>Security</b>	
<b>Storage</b>		Cable lock slot	✓
Total storage capacity *	512 GB	Cable lock slot type	Wedge
Storage media *	SSD	Smart card reader	✓
Total SSDs capacity	512 GB	Trusted Platform Module (TPM)	✓
Number of SSDs installed	1	Trusted Platform Module (TPM) version	2.0
SSD capacity	512 GB	<b>Operational conditions</b>	
SSD interface	PCI Express 4.0	Operating temperature (T-T)	0 - 35 °C
NVMe	✓	Storage temperature (T-T)	-40 - 65 °C
SSD form factor	M.2	Operating relative humidity (H-H)	10 - 90%
SSD performance class	35	Storage relative humidity (H-H)	0 - 95%
M.2 SSD size	2230 (22 x 30 mm)	Operating altitude	-15.2 - 3048 m
Optical drive type *	✗	Non-operating altitude	-15.2 - 10668 m
Card reader integrated	✓	Operating shock	110 G
Compatible memory cards	MicroSD (TransFlash), MicroSDHC, MicroSDXC	Non-operating shock	160 G
<b>Graphics</b>		Operating vibration	0.66 G
Discrete graphics card model *	NVIDIA RTX 500 Ada	Non-operating vibration	1.3 G
Discrete graphics card memory	4 GB	<b>Sustainability</b>	
Discrete graphics memory type	GDDR6	Sustainability compliance	✓
On-board graphics card *	✓	Sustainability certificates	ENERGY STAR, TCO
On-board GPU manufacturer	Intel	<b>Weight &amp; dimensions</b>	
Discrete graphics card *	✓	Width	357.8 mm
On-board graphics card family	Intel Arc Graphics		
On-board graphics card model *	Intel Arc Graphics		

Audio		Weight & dimensions	
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>	
Camera		Total carbon footprint (kg of CO2e)	120
Front camera	✓	Carbon emissions, manufacturing (kg of CO2e)	84
Front camera resolution (numeric)	2.07 MP	Carbon emissions, logistics (kg of CO2e)	5
Front camera resolution	1920 x 1080 pixels	Carbon emissions, energy usage (kg of CO2e)	31
Front camera HD type	Full HD	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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Publication date: 22-DEC-2024. Prints or copies of Information are only valid on the printed Publication date