



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: X8C56

Product name : 3591



- Windows 11 Pro 64-bit
- Intel Core Ultra 7 155H (24MB Cache)
- 39.6 cm (15.6") Full HD 1920 x 1080 IPS, NVIDIA RTX 500 Ada (4GB GDDR6)
- 16GB DDR5-SDRAM (1 x 16) & 512GB SSD

Intel Core Ultra 7 155H (24MB Cache), 16GB DDR5-SDRAM, 512GB SSD, 39.6 cm (15.6") Full HD 1920 x 1080 IPS, Intel Arc Graphics, NVIDIA RTX 500 Ada (4GB GDDR6), LAN, WLAN, Webcam, Windows 11 Pro 64-bit

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Extraordinary performance. AI at your fingertips.

Intelligently optimised and high performing, the Precision 3591 is a powerful entry-level workstation for design and creative applications.



Design		Audio	
Product type *	Mobile workstation	Number of microphones	2
Product colour *	Grey	Camera	
Form factor *	Clamshell	Front camera	✓
Market positioning	Business	Front camera resolution (numeric)	2.07 MP
Intel® vPro™ Platform Eligibility	✓	Front camera resolution	1920 x 1080 pixels
Display		Front camera HD type	Full HD
Display diagonal *	39.6 cm (15.6")	Video capturing speed	30 fps
Display resolution *	1920 x 1080 pixels	Privacy camera	✓
Touchscreen *	✗	Privacy type	Privacy shutter
HD type	Full HD	Network	
Panel type	IPS	Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
LED backlight	✓	Wi-Fi standards	Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 6E (802.11ax)
Native aspect ratio	16:9	Mobile network connection *	✗
Anti-glare screen	✓	Wi-Fi data rate (max)	2400 Mbit/s
Display brightness	400 cd/m ²	Antenna type	2x2
Pixel density	141 ppi	WLAN controller model	Intel Wi-Fi 6E AX211
RGB colour space	sRGB	WLAN controller manufacturer	Intel
Colour gamut	100%	Ethernet LAN	✓
Maximum refresh rate	60 Hz	Ethernet LAN data rates	10,100,1000 Mbit/s
Contrast ratio (typical)	800:1	Bluetooth	✓
Processor		WWAN	Upgradable
Processor manufacturer *	Intel	MIMO	✓
Processor family *	Intel Core Ultra 7	MIMO type	Multi User MIMO
Processor generation	Intel® Core™ Ultra (Series 1)	Ports & interfaces	
Processor model *	155H	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Processor cores	16		
Processor threads	22		
Processor boost frequency	4.8 GHz		

Processor		Ports & interfaces	
Performance cores	6	Ethernet LAN (RJ-45) ports	1
Efficient cores	8	HDMI ports quantity *	1
Low Power Efficient-cores	2	HDMI version	2.1
Performance-core Max Turbo Frequency	4.8 GHz	Thunderbolt 4 ports quantity	2
Efficient-core Max Turbo Frequency	3.8 GHz	Intel® Thunderbolt 4	✓
Low Power Efficient-core Max Turbo Frequency	2.5 GHz	Combo headphone/mic port	✓
Performance-core base frequency	1.4 GHz	Charging port type	USB Type-C
Efficient-core base frequency	0.9 GHz	USB Type-C DisplayPort Alternate Mode	✓
Low Power Efficient-core Base Frequency	700 MHz	USB Power Delivery	✓
Processor cache	24 MB	PowerShare	✓
Processor cache type	Smart Cache	Number of USB ports with PowerShare support	1
Processor base power	28 W	Keyboard	
Maximum turbo power	115 W	Pointing device	Touchpad
Neural processor unit (NPU)		Keyboard language	UK English
Neural processor unit (NPU)	Intel AI Boost	Numeric keypad *	✓
Maximum frequency NPU	1.4 GHz	Keyboard backlit	✓
Sparsity support	✓	Keyboard number of keys	100
Windows Studio effects support	✓	Software	
AI datatype support on NPU	FP16, FP32, Int8	Operating system architecture	64-bit
AI software frameworks supported by NPU	DirectML, ONNX RT, OpenVINO, Windows ML	Operating system language	German, Dutch, English, French, Italian
Memory		Trial software	No Microsoft Office Licence Included - 30 day Trial Offer Only
Internal memory *	16 GB	Operating system installed *	Windows 11 Pro
Internal memory type	DDR5-SDRAM	Battery	
Memory form factor	SO-DIMM	Number of battery cells	4
Memory layout (slots x size)	1 x 16 GB	Battery capacity *	64 Wh
Memory slots	2x SO-DIMM	Battery voltage	15.2 V
Maximum internal memory *	64 GB	Battery recharge time	3 h
Memory data transfer rate	5600 MT/s	Fast charging	✓
Non-ECC	✓	Battery charge indicator	✓
Storage		Battery weight	280 g
Total storage capacity *	512 GB	Power	
Storage media *	SSD	AC adapter power	130 W
Total SSDs capacity	512 GB	AC adapter frequency	50 - 60 Hz
Number of SSDs installed	1	AC adapter input voltage	100 - 240 V
SSD capacity	512 GB	USB charging voltage	5,20 V
SSD interface	PCI Express 4.0	Security	
NVMe	✓	Cable lock slot	✓
SSD form factor	M.2	Cable lock slot type	Wedge
SSD performance class	35	Smart card reader	✓
M.2 SSD size	2230 (22 x 30 mm)	Trusted Platform Module (TPM)	✓
Optical drive type *	✗	Trusted Platform Module (TPM) version	2.0
Card reader integrated	✓	Operational conditions	
Compatible memory cards	MicroSD (TransFlash), MicroSDHC, MicroSDXC	Operating temperature (T-T)	0 - 35 °C
Graphics		Storage temperature (T-T)	-40 - 65 °C
Discrete graphics card model *	NVIDIA RTX 500 Ada	Operating relative humidity (H-H)	10 - 90%
Discrete graphics card memory	4 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 Arc Graphics	Operating vibration	0.66 G
On-board graphics card model *	Intel Arc Graphics	Non-operating vibration	1.3 G
Audio			
Number of built-in speakers	2		

Audio		Sustainability	
Speakers manufacturer	Waves	Sustainability compliance	✓
Speaker power	2 W	Sustainability certificates	ENERGY STAR, TCO
Built-in microphone	✓	Weight & dimensions	
		Width	357.8 mm
		Depth	233.3 mm
		Height (front)	2.27 cm
		Height (rear)	2.47 cm
		Weight *	1.79 kg
		Packaging content	
		Cables included	AC



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