



## DELL Precision 3590 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: TFWWT

Product name : 3590

DELL Precision 3590. 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	Front camera resolution	1920 x 1080 pixels
Product colour *	Grey	Front camera HD type	Full HD
Form factor *	Clamshell	Video capturing speed	30 fps
Market positioning	Business	Privacy camera	✓
Intel® vPro™ Platform Eligibility	✓	Privacy type	Privacy shutter
Display		Network	
Display diagonal *	39.6 cm (15.6")	Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
Display resolution *	1920 x 1080 pixels	Wi-Fi standards	802.11a, Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 6E (802.11ax)
Touchscreen *	✗	Mobile network connection *	✗
HD type	Full HD	Wi-Fi data rate (max)	2400 Mbit/s
Panel type	IPS	Antenna type	2x2
LED backlight	✓	WLAN controller model	Intel Wi-Fi 6E AX211
Native aspect ratio	16:9	WLAN controller manufacturer	Intel
Anti-glare screen	✓	Ethernet LAN	✓
Display brightness	250 cd/m <sup>2</sup>	Ethernet LAN data rates	10,100,1000 Mbit/s
Pixel density	141 ppi	Bluetooth	✓
Display diagonal (metric)	39.6 cm	MIMO	✓
RGB colour space	NTSC	MIMO type	Multi User MIMO
Colour gamut	45%	Ports & interfaces	
Maximum refresh rate	60 Hz	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Contrast ratio (typical)	700:1	Ethernet LAN (RJ-45) ports	1
Processor		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		
Processor cores	16		

<b>Processor</b>		<b>Ports &amp; interfaces</b>	
Processor threads	22	Combo headphone/mic port	✓
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		
Performance-core Max Turbo Frequency	4.8 GHz	<b>Performance</b>	
Efficient-core Max Turbo Frequency	3.8 GHz	Motherboard chipset	Intel SoC
Low Power Efficient-core Max Turbo Frequency	2.5 GHz	Ambient light sensor	✓
Performance-core base frequency	1.4 GHz	<b>Keyboard</b>	
Efficient-core base frequency	0.9 GHz	Pointing device	Touchpad
Low Power Efficient-core Base Frequency	700 MHz	Keyboard language	Nordic
Processor cache	24 MB	Numeric keypad *	✓
Processor cache type	Smart Cache	Keyboard backlit	✓
Processor base power	28 W	Keyboard number of keys	100
Maximum turbo power	115 W	<b>Software</b>	
<b>Neural processor unit (NPU)</b>		Operating system architecture	64-bit
Neural processor unit (NPU)	Intel AI Boost	Operating system language	Danish, English, Finnish, Norwegian, Swedish
Maximum frequency NPU	1.4 GHz	Trial software	No Microsoft Office License Included 30 day Trial Offer Only
Sparsity support	✓	Operating system installed *	Windows 11 Pro
Windows Studio effects support	✓	<b>Battery</b>	
AI datatype support on NPU	FP16, FP32, Int8	Number of battery cells	3
AI software frameworks supported by NPU	DirectML, ONNX RT, OpenVINO, Windows ML	Battery capacity *	54 Wh
<b>Memory</b>		Battery voltage	11.4 V
Internal memory *	16 GB	Battery recharge time	4 h
Internal memory type	DDR5-SDRAM	Fast charging	✓
Memory form factor	SO-DIMM	Battery weight	220 g
Memory layout (slots x size)	1 x 16 GB	<b>Power</b>	
Memory slots	2x SO-DIMM	AC adapter power	130 W
Maximum internal memory *	64 GB	AC adapter frequency	50/60 Hz
Memory data transfer rate	5600 MT/s	AC adapter input voltage	100 - 240 V
Non-ECC	✓	USB Power Delivery (USB PD) *	✓
<b>Storage</b>		USB charging voltage	20,5 V
Total storage capacity *	512 GB	USB charging current	6.5 A
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
M.2 SSD size	2230 (22 x 30 mm)	Storage temperature (T-T)	-40 - 65 °C
Optical drive type *	✗	Operating relative humidity (H-H)	10 - 90%
Card reader integrated	✓	Storage relative humidity (H-H)	0 - 95%
Compatible memory cards	MicroSD (TransFlash), MicroSDHC, MicroSDXC	Operating altitude	-15.2 - 3048 m
<b>Graphics</b>		Non-operating altitude	-15.2 - 10668 m
Discrete GPU manufacturer	NVIDIA	Operating shock	110 G
Discrete graphics card model *	NVIDIA RTX 500 Ada	Non-operating shock	160 G
Discrete graphics card memory	4 GB	Operating vibration	0.66 G
Discrete graphics memory type	GDDR6	Non-operating vibration	1.3 G
On-board graphics card *	✓	<b>Sustainability</b>	
On-board GPU manufacturer	Intel	Sustainability compliance	✓
Discrete graphics card *	✓	Sustainability certificates	TCO, ENERGY STAR, EPEAT Gold
On-board graphics card family	Intel Arc Graphics		

Graphics		Weight & dimensions	
On-board graphics card model *	Intel Arc Graphics	Width	357.8 mm
Audio		Depth	233.3 mm
Audio system	MaxxAudio	Height (front)	2.08 cm
Number of built-in speakers	2	Height (rear)	2.28 cm
Speakers manufacturer	Waves	Weight *	1.62 kg
Speaker power	2 W	Carbon footprint	
Built-in microphone	✓	Total carbon footprint (kg of CO2e)	119
Number of microphones	2	Carbon emissions, manufacturing (kg of CO2e)	86
Camera		Carbon emissions, logistics (kg of CO2e)	4
Front camera	✓	Carbon emissions, energy usage (kg of CO2e)	28
Front camera resolution (numeric)	2.07 MP	Carbon emissions, end-of-life (kg of CO2e)	1
		Total carbon emissions, w/o use phase (kg of CO2e)	91
		PAIA version	GaBi version 1, 2024
		Packaging content	
		Cables included	AC



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