



## DELL Precision 3590 Intel Core Ultra 7 155H Mobile workstation 39.6 cm (15.6") Full HD 32 GB DDR5-SDRAM 1 TB SSD NVIDIA RTX 500 Ada Wi-Fi 6E (802.11ax) Windows 11 Pro Grey

Brand : DELL

Product family: Precision

Product code: H3JYH

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: 32 GB, Internal memory type: DDR5-SDRAM. Total storage capacity: 1 TB, 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%		
Maximum refresh rate	60 Hz	Ports & interfaces	
Contrast ratio (typical)	700:1	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		

<b>Processor</b>		<b>Ports &amp; interfaces</b>	
Processor threads	22	Combo headphone/mic port	✓
Processor boost frequency	4.8 GHz	USB Type-C DisplayPort Alternate Mode	✓
Performance cores	6	PowerShare	✓
Efficient cores	8	<b>Performance</b>	
Low Power Efficient-cores	2	Motherboard chipset	Intel SoC
Performance-core Max Turbo Frequency	4.8 GHz	Ambient light sensor	✓
Efficient-core Max Turbo Frequency	3.8 GHz	<b>Keyboard</b>	
Low Power Efficient-core Max Turbo Frequency	2.5 GHz	Pointing device	Touchpad
Performance-core base frequency	1.4 GHz	Keyboard language	Nordic
Efficient-core base frequency	0.9 GHz	Numeric keypad *	✓
Low Power Efficient-core Base Frequency	700 MHz	Keyboard backlit	✓
Processor cache	24 MB	Keyboard number of keys	100
Processor cache type	Smart Cache	<b>Software</b>	
Processor base power	28 W	Operating system architecture	64-bit
Maximum turbo power	115 W	Operating system language	Danish, English, Finnish, Norwegian, Swedish
<b>Neural processor unit (NPU)</b>		Trial software	No Microsoft Office License Included 30 day Trial Offer Only
Neural processor unit (NPU)	Intel AI Boost	Operating system installed *	Windows 11 Pro
Maximum frequency NPU	1.4 GHz	<b>Battery</b>	
Sparsity support	✓	Number of battery cells	3
Windows Studio effects support	✓	Battery capacity *	54 Wh
AI datatype support on NPU	FP16, FP32, Int8	Battery voltage	11.4 V
AI software frameworks supported by NPU	DirectML, ONNX RT, OpenVINO, Windows ML	Battery recharge time	4 h
<b>Memory</b>		Fast charging	✓
Internal memory *	32 GB	Battery weight	220 g
Internal memory type	DDR5-SDRAM	<b>Power</b>	
Memory form factor	SO-DIMM	AC adapter power	130 W
Memory layout (slots x size)	2 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 Type-C charging port *	✓
Memory data transfer rate	5600 MT/s	USB Power Delivery (USB PD) *	✓
Non-ECC	✓	USB charging voltage	20,5 V
<b>Storage</b>		USB charging current	6.5 A
Total storage capacity *	1 TB	<b>Security</b>	
Storage media *	SSD	Cable lock slot	✓
Total SSDs capacity	1 TB	Cable lock slot type	Wedge
Number of SSDs installed	1	Smart card reader	✓
SSD capacity	1 TB	Trusted Platform Module (TPM)	✓
SSD interface	PCI Express 4.0	Trusted Platform Module (TPM) version	2.0
NVMe	✓	<b>Operational conditions</b>	
SSD form factor	M.2	Operating temperature (T-T)	0 - 35 °C
SSD performance class	40	Storage temperature (T-T)	-40 - 65 °C
M.2 SSD size	2280 (22 x 80 mm)	Operating relative humidity (H-H)	10 - 90%
Optical drive type *	✗	Storage relative humidity (H-H)	0 - 95%
Card reader integrated	✓	Operating altitude	-15.2 - 3048 m
Compatible memory cards	MicroSD (TransFlash), MicroSDHC, MicroSDXC	Non-operating altitude	-15.2 - 10668 m
<b>Graphics</b>		Operating shock	110 G
Discrete GPU manufacturer	NVIDIA	Non-operating shock	160 G
Discrete graphics card model *	NVIDIA RTX 500 Ada	Operating vibration	0.66 G
Discrete graphics card memory	4 GB	Non-operating vibration	1.3 G
Discrete graphics memory type	GDDR6	<b>Sustainability</b>	
On-board graphics card *	✓	Sustainability compliance	✓
On-board GPU manufacturer	Intel	Sustainability certificates	TCO, ENERGY STAR, EPEAT Gold
Discrete graphics card *	✓		
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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