



DELL Precision 3590 Intel Core Ultra 7 165H 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 German Grey

Brand : DELL

Product family: Precision

Product code: ND5FY

Product name : 3590

DELL Precision 3590. Product type: Mobile workstation, Form factor: Clamshell. Processor family: Intel Core Ultra 7, Processor model: 165H. 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 (numeric)	2.07 MP
Product colour *	Grey	Front camera resolution	1920 x 1080 pixels
Form factor *	Clamshell	Front camera HD type	Full HD
Market positioning	Business	Video capturing speed	30 fps
Intel® vPro™ Platform Eligibility	✓	Privacy camera	✓
Display		Privacy type	Privacy shutter
Display diagonal *	39.6 cm (15.6")	Network	
Display resolution *	1920 x 1080 pixels	Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
Touchscreen *	✗	Wi-Fi standards	802.11a, Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 6E (802.11ax)
HD type	Full HD	Mobile network connection *	✗
Panel type	IPS	Wi-Fi data rate (max)	2400 Mbit/s
LED backlight	✓	Antenna type	2x2
Native aspect ratio	16:9	WLAN controller model	Intel Wi-Fi 6E AX211
Anti-glare screen	✓	WLAN controller manufacturer	Intel
Display brightness	400 cd/m²	Ethernet LAN	✓
Pixel pitch	0.179 x 0.179 mm	Ethernet LAN data rates	10,100,1000 Mbit/s
Pixel density	141 ppi	Bluetooth	✓
Display diagonal (metric)	39.6 cm	WWAN	Upgradable
RGB colour space	sRGB	MIMO	✓
Colour gamut	100%	MIMO type	Multi User MIMO
Display response rise/fall	35 ms	Ports & interfaces	
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
Processor		HDMI ports quantity *	1
Processor manufacturer *	Intel	HDMI version	2.1
Processor family *	Intel Core Ultra 7		
Processor generation	Intel® Core™ Ultra (Series 1)		

Processor		Ports & interfaces	
Processor model *	165H	Thunderbolt 4 ports quantity	2
Processor cores	16	Intel® Thunderbolt 4	✓
Processor threads	22	Combo headphone/mic port	✓
Processor boost frequency	5 GHz	USB Type-C DisplayPort Alternate Mode	✓
Performance cores	6	PowerShare	✓
Efficient cores	8		
Low Power Efficient-cores	2		
Performance-core Max Turbo Frequency	5 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)		Performance	
Neural processor unit (NPU)	Intel AI Boost	Motherboard chipset	Intel SoC
Maximum frequency NPU	1.4 GHz	Ambient light sensor	✓
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		Keyboard	
Internal memory *	16 GB	Pointing device	Touchpad
Internal memory type	DDR5-SDRAM	Numeric keypad *	✓
Memory form factor	SO-DIMM	Keyboard backlit	✓
Memory layout (slots x size)	1 x 16 GB	Keyboard number of keys	100
Memory slots	2x SO-DIMM	Keyboard language	German
Maximum internal memory *	64 GB		
Memory data transfer rate	5600 MT/s		
Non-ECC	✓		
Storage		Software	
Total storage capacity *	512 GB	Operating system architecture	64-bit
Storage media *	SSD	Operating system language	German, Dutch, English, French, Italian
Total SSDs capacity	512 GB	Trial software	No Microsoft Office License Included 30 day Trial Offer Only
Number of SSDs installed	1	Operating system installed *	Windows 11 Pro
SSD capacity	512 GB		
SSD memory type	TLC		
SSD interface	PCI Express 4.0		
NVMe	✓		
SSD form factor	M.2		
SSD performance class	35		
Optical drive type *	✗		
Card reader integrated	✓		
Compatible memory cards	MicroSD (TransFlash), MicroSDHC, MicroSDXC		
Graphics		Battery	
Discrete GPU manufacturer	NVIDIA	Number of battery cells	3
Discrete graphics card model *	NVIDIA RTX 500 Ada	Battery capacity *	54 Wh
Discrete graphics card memory	4 GB	Battery voltage	11.4 V
Discrete graphics memory type	GDDR6	Battery recharge time	4 h
On-board graphics card *	✓	Fast charging	✓
On-board GPU manufacturer	Intel	Battery weight	220 g
		Power	
		AC adapter power	130 W
		AC adapter frequency	50/60 Hz
		AC adapter input voltage	100 - 240 V
		USB Type-C charging port *	✓
		USB Power Delivery (USB PD)	✓
		USB charging voltage	5,20 V
		USB charging current	6.5 A
		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

Graphics		Sustainability	
Discrete graphics card *	✓	Sustainability compliance	✓
On-board graphics card family	Intel Arc Graphics	Sustainability certificates	TCO, ENERGY STAR, EPEAT Gold
On-board graphics card model *	Intel Arc Graphics	Weight & dimensions	
Audio		Width	357.8 mm
Audio system	MaxxAudio	Depth	233.3 mm
Number of built-in speakers	2	Height (front)	2.08 cm
Speakers manufacturer	Waves	Height (rear)	2.28 cm
Speaker power	2 W	Weight *	1.62 kg
Built-in microphone	✓	Carbon footprint	
Number of microphones	2	Total carbon footprint (kg of CO2e)	119
Camera		Carbon emissions, manufacturing (kg of CO2e)	85.918
Front camera	✓	Carbon emissions, logistics (kg of CO2e)	4.403
		Carbon emissions, energy usage (kg of CO2e)	28.084
		Carbon emissions, end-of-life (kg of CO2e)	0.595
		PAIA version	GaBi version 1, 2024



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