



# 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 1000 Ada Wi-Fi 6E (802.11ax) Windows 11 Pro Grey

Brand : DELL

Product family: Precision

Product code: 84FY1

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 1000 Ada (6GB 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 1000 Ada (6GB 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		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	Charging port type	USB Type-C
Processor threads	22		
Processor boost frequency	4.8 GHz		

<b>Processor</b>		<b>Ports &amp; interfaces</b>	
Performance cores	6	USB Type-C DisplayPort Alternate Mode	✓
Efficient cores	8	USB Power Delivery	✓
Low Power Efficient-cores	2	PowerShare	✓
Performance-core Max Turbo Frequency	4.8 GHz	Number of USB ports with PowerShare support	1
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	UK English
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	German, Dutch, English, French, Italian
<b>Neural processor unit (NPU)</b>		Trial software	No Microsoft Office Licence 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	4
Windows Studio effects support	✓	Battery capacity *	64 Wh
AI datatype support on NPU	FP16, FP32, Int8	Battery voltage	15.2 V
AI software frameworks supported by NPU	DirectML, ONNX RT, OpenVINO, Windows ML	Battery recharge time	3 h
<b>Memory</b>		Fast charging	✓
Internal memory *	16 GB	Battery charge indicator	✓
Internal memory type	DDR5-SDRAM	Battery weight	280 g
Memory form factor	SO-DIMM	<b>Power</b>	
Memory layout (slots x size)	1 x 16 GB	AC adapter power	130 W
Memory slots	2x SO-DIMM	AC adapter frequency	50 - 60 Hz
Maximum internal memory *	64 GB	AC adapter input voltage	100 - 240 V
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 1000 Ada	Non-operating vibration	1.3 G
Discrete graphics card memory	6 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	Depth	233.3 mm
On-board graphics card model *	Intel Arc Graphics	Height (front)	2.27 cm
<b>Audio</b>		Height (rear)	2.47 cm
Number of built-in speakers	2		

Audio		Weight & dimensions	
Speakers manufacturer	Waves	Weight *	1.79 kg
Speaker power	2 W	<b>Carbon footprint</b>	
Built-in microphone	✓	Total carbon footprint (kg of CO2e)	120
Number of microphones	2	Carbon emissions, manufacturing (kg of CO2e)	84
<b>Camera</b>		Carbon emissions, logistics (kg of CO2e)	5
Front camera	✓	Carbon emissions, energy usage (kg of CO2e)	31
Front camera resolution (numeric)	2.07 MP	Carbon emissions, end-of-life (kg of CO2e)	1
Front camera resolution	1920 x 1080 pixels	Total carbon emissions, w/o use phase (kg of CO2e)	89
Front camera HD type	Full HD	PAIA version	GaBi verison1
		<b>Packaging content</b>	
		Cables included	AC



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