



# DELL Precision 3680 Intel® Core™ i7 i7-14700 16 GB DDR5-SDRAM 512 GB SSD NVIDIA T1000 Windows 11 Pro Tower Workstation Black



**Brand :** DELL

**Product family:** Precision

**Product code:** GGNGH

**Product name :** 3680

- Windows 11 Pro 64-bit
- Intel Core i7-14700 (33MB Cache)
- NVIDIA T1000 (8GB GDDR6)
- 16GB DDR5-SDRAM (2 x 8) & 512GB SSD

Intel Core i7-14700 (33MB Cache), 16GB DDR5-SDRAM, 512GB SSD, Intel UHD Graphics 770, NVIDIA T1000 (8GB GDDR6), LAN, Windows 11 Pro 64-bit

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## Exceptionally scalable performance in an entry tower design

The new 3680 Tower is Dell's fastest workstation for single-threaded tasks, featuring new 14th Gen Intel® Core™ processors with Unlimited Turbo Duration.

DELL Precision 3680. Processor family: Intel® Core™ i7, Processor model: i7-14700. Internal memory: 16 GB, Internal memory type: DDR5-SDRAM. Total storage capacity: 512 GB, Storage media: SSD, Card reader integrated. On-board graphics card model: Intel UHD Graphics 770, Discrete graphics card model: NVIDIA T1000. Operating system installed: Windows 11 Pro, Operating system architecture: 64-bit. Power supply: 500 W. Chassis type: Tower. Product type: Workstation. Product colour: Black

Processor		Ports & interfaces	
Processor manufacturer *	Intel	USB 3.2 Gen 2x2 Type-C ports quantity	1
Processor family *	Intel® Core™ i7	PowerShare	✓
Processor generation	Intel® Core™ i7 (14th gen)	Number of USB ports with PowerShare support	2
Processor model *	i7-14700	DisplayPorts quantity	2
Processor cores	20	DisplayPort version	1.4a
Processor threads	28	Ethernet LAN (RJ-45) ports	1
Processor boost frequency	5.4 GHz	Line-out	✓
Performance cores	8	Combo headphone/mic port	✓
Efficient cores	12	Number of rear USB ports	6
Performance-core Max Turbo Frequency	5.3 GHz	Number of front USB ports	4
Efficient-core Max Turbo Frequency	4.2 GHz	<b>Design</b>	
Performance-core base frequency	2.1 GHz	Chassis type *	Tower
Efficient-core base frequency	1.5 GHz	Placement supported	Vertical
Processor cache	33 MB	Water cooling system	✗
Processor cache type	Smart Cache	Cable lock slot	✓
Number of processors installed	1	Cable lock slot type	Kensington
Processor base power	65 W	Product colour *	Black
Maximum turbo power	219 W	Viewing window	✗
<b>Memory</b>		Intel® vPro™ Platform Eligibility	✓
Internal memory *	16 GB	<b>Performance</b>	
Maximum internal memory *	128 GB	Market positioning	Business
Internal memory type	DDR5-SDRAM	Motherboard chipset	Intel W680
Memory layout (slots x size)	2 x 8 GB	Audio chip	Realtek ALC3246-CG
Memory slots	4x DIMM	Audio system	High Definition Audio
Non-ECC	✓	Built-in speaker(s)	✓
Memory data transfer rate	4400 MT/s	Number of speakers	1
		Password protection	✓

<b>Storage</b>		<b>Performance</b>	
Total storage capacity *	512 GB	Trusted Platform Module (TPM)	✓
Storage media *	SSD	Trusted Platform Module (TPM) version	2.0
Optical drive type *	✗	Product type *	Workstation
Total SSDs capacity	512 GB	<b>Software</b>	
Number of SSDs installed	1	Operating system installed *	Windows 11 Pro
SSD capacity	512 GB	Operating system architecture	64-bit
SSD interface	PCI Express 4.0	Operating system language	German, Dutch, English, French, Italian
NVMe	✓	Trial software	Activate Your Microsoft 365 For A 30 Day Trial
SSD form factor	M.2	<b>Power</b>	
M.2 SSD size	2280 (22 x 80 mm)	Power supply *	500 W
Card reader integrated	✓	Power supply input voltage	90 - 264 V
Compatible memory cards	SD	Power supply input frequency	47/63 Hz
<b>Graphics</b>		80 PLUS certification	80 PLUS Platinum
Discrete graphics card *	✓	<b>Operational conditions</b>	
On-board graphics card *	✓	Operating temperature (T-T)	10 - 35 °C
Discrete graphics card model *	NVIDIA T1000	Storage temperature (T-T)	-40 - 65 °C
Discrete graphics card memory	8 GB	Operating relative humidity (H-H)	20 - 85%
Discrete graphics memory type	GDDR6	Storage relative humidity (H-H)	0 - 95%
On-board GPU manufacturer	Intel	Operating altitude	-15.2 - 3048 m
On-board graphics card family	Intel® UHD Graphics	Non-operating altitude	-15.2 - 10668 m
On-board graphics card model *	Intel UHD Graphics 770	Operating vibration	0.52 G
Graphics card Mini DisplayPort ports quantity	4	Non-operating vibration	2 G
<b>Network</b>		Operating shock	40 G
Ethernet LAN *	✓	Non-operating shock	105 G
Ethernet LAN data rates	10,100,1000 Mbit/s	<b>Sustainability</b>	
Cabling technology	10/100/1000Base-T(X)	Sustainability compliance	✓
LAN controller	Intel® I219-LM	Sustainability certificates	ENERGY STAR, EPEAT Gold
Wi-Fi *	✗	<b>Weight &amp; dimensions</b>	
<b>Ports &amp; interfaces</b>		Width *	173 mm
USB 2.0 ports quantity *	2	Depth *	420.2 mm
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	Height *	372.9 mm
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	2	<b>Packaging content</b>	
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity *	3	Display included *	✗
		Mouse included on selected markets	Dell Optical Mouse-MS116 - Black
		Keyboard included on selected markets	Dell Multimedia Keyboard-KB216 - UK (QWERTY) - Black
		Cables included	AC



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