



DELL Precision 3680 Intel® Core™ i7 i7-14700K 32 GB DDR5-SDRAM 1 TB SSD Windows 11 Pro Tower Workstation Black

Brand : DELL

Product family: Precision

Product code: R7X8R

Product name : 3680

- Windows 11 Pro 64-bit

- Intel Core i7-14700K (33MB Cache)

- 32GB DDR5-SDRAM (2 x 16) & 1000GB SSD

Intel Core i7-14700K (33MB Cache), 32GB DDR5-SDRAM, 1000GB SSD, Intel UHD Graphics 770, 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: i7-14700K. Internal memory: 32 GB, Internal memory type: DDR5-SDRAM. Total storage capacity: 1 TB, Storage media: SSD, Card reader integrated. On-board graphics card model: Intel UHD Graphics 770. Operating system installed: Windows 11 Pro, Operating system architecture: 64-bit. Power supply: 1000 W. Chassis type: Tower. Product type: Workstation. Product colour: Black



Processor		Ports & interfaces	
Processor manufacturer *	Intel	Number of USB ports with PowerShare support	2
Processor family *	Intel® Core™ i7	DisplayPorts quantity	2
Processor generation	Intel® Core™ i7 (14th gen)	DisplayPort version	1.4a
Processor model *	i7-14700K	Ethernet LAN (RJ-45) ports	1
Processor cores	20	Line-out	✓
Processor threads	28	Combo headphone/mic port	✓
Processor boost frequency	5.6 GHz	Number of rear USB ports	6
Performance cores	8	Number of front USB ports	4
Efficient cores	12		
Performance-core Max Turbo Frequency	5.5 GHz		
Efficient-core Max Turbo Frequency	4.3 GHz		
Performance-core base frequency	3.4 GHz		
Efficient-core base frequency	2.5 GHz		
Processor cache	33 MB		
Processor cache type	Smart Cache		
Number of processors installed	1		
Processor base power	125 W		
Maximum turbo power	253 W		
Memory		Design	
Internal memory *	32 GB	Chassis type *	Tower
Maximum internal memory *	128 GB	Placement supported	Vertical
Internal memory type	DDR5-SDRAM	Water cooling system	✗
Memory layout (slots x size)	2 x 16 GB	Cable lock slot	✓
Memory slots	4x DIMM	Cable lock slot type	Kensington
Non-ECC	✓	Product colour *	Black
Memory data transfer rate	4400 MT/s	Viewing window	✗
		Intel® vPro™ Platform Eligibility	✓
		Performance	
		Market positioning	Business
		Motherboard chipset	Intel W680
		Audio chip	Realtek ALC3246-CG
		Audio system	High Definition Audio
		Built-in speaker(s)	✓
		Number of speakers	1
		Password protection	✓
		Trusted Platform Module (TPM)	✓
		Trusted Platform Module (TPM) version	2.0

Storage		Performance	
Total storage capacity *	1 TB	Product type *	Workstation
Storage media *	SSD	Software	
Optical drive type *	✗	Operating system installed *	Windows 11 Pro
Total SSDs capacity	1 TB	Operating system architecture	64-bit
Number of SSDs installed	1	Operating system language	German, Dutch, English, French, Italian
SSD capacity	1 TB	Trial software	Activate Your Microsoft 365 For A 30 Day Trial
SSD interface	PCI Express 4.0	Power	
NVMe	✓	Power supply *	1000 W
SSD form factor	M.2	Power supply input voltage	90 - 264 V
M.2 SSD size	2280 (22 x 80 mm)	Power supply input frequency	47/63 Hz
Card reader integrated	✓	80 PLUS certification	80 PLUS Platinum
Compatible memory cards	SD	Operational conditions	
Graphics		Operating temperature (T-T)	10 - 35 °C
Discrete graphics card *	✗	Storage temperature (T-T)	-40 - 65 °C
On-board graphics card *	✓	Operating relative humidity (H-H)	20 - 85%
Discrete graphics card model *	Not available	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
Network		Non-operating vibration	2 G
Ethernet LAN *	✓	Operating shock	40 G
Ethernet LAN data rates	10,100,1000 Mbit/s	Non-operating shock	105 G
Cabling technology	10/100/1000Base-T(X)	Sustainability	
LAN controller	Intel® I219-LM	Sustainability compliance	✓
Wi-Fi *	✗	Sustainability certificates	ENERGY STAR, EPEAT Gold
Ports & interfaces		Weight & dimensions	
USB 2.0 ports quantity *	2	Width *	173 mm
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	Depth *	420.2 mm
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	2	Height *	372.9 mm
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity *	3	Packaging content	
USB 3.2 Gen 2x2 Type-C ports quantity	1	Display included *	✗
PowerShare	✓	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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