



DELL Precision 3680 Intel® Core™ i9 i9-14900K 32 GB DDR5-SDRAM 1 TB SSD Windows 11 Pro Tower Workstation Black

Brand : DELL

Product family: Precision

Product code: F8CF1

Product name : 3680

- Windows 11 Pro 64-bit
 - Intel Core i9-14900K (36MB Cache)
 - 32GB DDR5-SDRAM (2 x 16) & 1000GB SSD
- Intel Core i9-14900K (36MB 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™ i9, Processor model: i9-14900K. 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	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity *	3
Processor family *	Intel® Core™ i9	USB 3.2 Gen 2x2 Type-C ports quantity	1
Processor generation	Intel® Core™ i9 (14th gen)	PowerShare	✓
Processor model *	i9-14900K	Number of USB ports with PowerShare support	2
Processor cores	24	DisplayPorts quantity	2
Processor threads	32	DisplayPort version	1.4a
Processor boost frequency	6 GHz	Ethernet LAN (RJ-45) ports	1
Performance cores	8	Line-out	✓
Efficient cores	16	Combo headphone/mic port	✓
Performance-core Max Turbo Frequency	5.6 GHz	Number of rear USB ports	6
Efficient-core Max Turbo Frequency	4.4 GHz	Number of front USB ports	4
Performance-core base frequency	3.2 GHz	Design	
Efficient-core base frequency	2.4 GHz	Chassis type *	Tower
Processor cache	36 MB	Placement supported	Vertical
Processor cache type	Smart Cache	Water cooling system	✗
Number of processors installed	1	Cable lock slot	✓
Number of processors supported	1	Cable lock slot type	Kensington
Processor base power	125 W	Product colour *	Black
Maximum turbo power	253 W	Viewing window	✗
Memory		Intel® vPro™ Platform Eligibility	✓
Internal memory *	32 GB	Performance	
Maximum internal memory *	128 GB	Market positioning	Business
Internal memory type	DDR5-SDRAM	Motherboard chipset	Intel W680
Memory layout (slots x size)	2 x 16 GB	Audio chip	Realtek ALC3246-CG
Memory slots	4x DIMM	Audio system	High Definition Audio
ECC	✗	Built-in speaker(s)	✓
Non-ECC	✓		
Memory channels	Dual-channel		

Memory		Performance	
Memory data transfer rate	4400 MT/s	Number of speakers	1
Storage		Password protection	✓
Total storage capacity *	1 TB	Trusted Platform Module (TPM)	✓
Storage media *	SSD	Trusted Platform Module (TPM) version	2.0
Optical drive type *	✗	Product type *	Workstation
Number of storage drives installed	1	Software	
Total SSDs capacity	1 TB	Operating system installed *	Windows 11 Pro
Number of SSDs installed	1	Operating system architecture	64-bit
SSD capacity	1 TB	Operating system language	German, Dutch, English, French, Italian
SSD interface	PCI Express 4.0	Trial software	Activate Your Microsoft 365 For A 30 Day Trial
NVMe	✓	Power	
SSD form factor	M.2	Power supply *	1000 W
M.2 SSD size	2280 (22 x 80 mm)	Power supply input voltage	90 - 264 V
Card reader integrated	✓	Power supply input frequency	47/63 Hz
Compatible memory cards	SD	80 PLUS certification	80 PLUS Platinum
RAID support	✗	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
Maximum on-board graphics card resolution	7680 x 4320 pixels	Non-operating vibration	2 G
Network		Operating shock	40 G
Ethernet LAN *	✓	Non-operating shock	105 G
Ethernet LAN data rates	10,100,1000 Mbit/s	Sustainability	
Cabling technology	10/100/1000Base-T(X)	Sustainability compliance	✓
LAN controller	Intel® I219-LM	Sustainability certificates	ENERGY STAR, EPEAT Gold
Wi-Fi *	✗	Weight & dimensions	
Bluetooth	✗	Width *	173 mm
Ports & interfaces		Depth *	420.2 mm
USB 2.0 ports quantity *	2	Height *	372.9 mm
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	Packaging content	
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	2	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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