



DELL Precision 5820 Intel® Xeon® W-2135 32 GB DDR4-SDRAM 512 GB SSD Windows 10 Pro Tower Workstation Black

Brand : DELL

Product family: Precision

Article code: GW9KH

Product name : 5820

DELL Precision 5820. Processor frequency: 3.7 GHz, Processor family: Intel® Xeon®, Processor model: W-2135. Internal memory: 32 GB, Internal memory type: DDR4-SDRAM, Memory clock speed: 2666 MHz. Total storage capacity: 512 GB, Storage media: SSD, Card reader integrated, Optical drive type: DVD-RW. Operating system installed: Windows 10 Pro, Operating system architecture: 64-bit. Chassis type: Tower. Product type: Workstation. Product color: Black



Processor		Performance	
Processor manufacturer *	Intel	Audio chip	Realtek ALC3234
Processor family *	Intel® Xeon®	Audio system	High Definition Audio
Processor model *	W-2135	Password protection	✓
Processor cores	6	Product type *	Workstation
Processor threads	12	Software	
Processor boost frequency	4.5 GHz	Operating system installed *	Windows 10 Pro
Processor frequency *	3.7 GHz	Operating system architecture	64-bit
Processor socket	LGA 2066 (Socket R4)	Operating system language	Multilingual
Processor cache	8.25 MB	Trial software	Microsoft Office
System bus rate	0 GT/s	Processor special features	
Bus type	QPI	Intel 64	✓
Processor lithography	14 nm	Enhanced Intel SpeedStep Technology	✓
Processor operating modes	64-bit	Embedded options available	✗
Processor codename	Skylake	Intel VT-x with Extended Page Tables (EPT)	✓
Thermal Design Power (TDP)	140 W	Intel TSX-NI	✓
Tcase	64 °C	Idle States	✓
PCI Express slots version	3.0	Thermal Monitoring Technologies	✓
Maximum number of PCI Express lanes	48	Intel® AES New Instructions (Intel® AES-NI)	✓
PCI Express configurations	1x16, 1x4, 1x8	Intel® Secure Key	✓
Number of processors installed	1	Intel® OS Guard	✓
Stepping	U0	Intel Trusted Execution Technology	✓
Maximum internal memory supported by processor	512 GB	Execute Disable Bit	✓
Memory types supported by processor	DDR4-SDRAM	Intel Flex Memory Access	✗
Memory clock speeds supported by processor	1600,1866,2133,2400,2666 MHz	Intel Enhanced Halt State	✓
Memory bandwidth supported by processor (max)	85.3 GB/s		

Processor		Processor special features	
ECC supported by processor	✓	Intel Demand Based Switching	✓
Memory		Intel Software Guard Extensions (Intel SGX)	✗
Internal memory *	32 GB	Processor package size	45 x 52.5 mm
Maximum internal memory *	256 GB	Supported instruction sets	AVX, AVX 2.0, AVX-512, SSE4.2
Internal memory type	DDR4-SDRAM	Processor code	SR3LN
Memory layout (slots x size)	2 x 16 GB	Scalability	1S
Memory slots	8x DIMM	Physical Address Extension (PAE)	✓
Memory clock speed	2666 MHz	Physical Address Extension (PAE)	46 bit
Memory channels	Quad-channel	CPU configuration (max)	1
Storage		Intel Virtualization Technology for Directed I/O (VT-d)	✓
Total storage capacity *	512 GB	Intel Identity Protection Technology version	1.00
Storage media *	SSD	Intel Secure Key Technology version	1.00
Optical drive type *	DVD-RW	Intel Virtualization Technology (VT-x)	✓
Number of storage drives installed	1	Intel TSX-NI version	1.00
Total SSDs capacity	512 GB	Processor ARK ID	126709
Number of SSDs installed	1	Intel® Turbo Boost Technology	2.0
SSD capacity	512 GB	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
SSD interface	PCI Express	Intel® Identity Protection Technology (Intel® IPT)	✓
SSD form factor	M.2	Conflict-Free processor	✓
Card reader integrated	✓	Power	
Compatible memory cards	SD	Power supply input voltage	100 - 240 V
Graphics		Power supply input frequency	50 - 60 Hz
Discrete graphics card *	✗	Operational conditions	
Discrete graphics card model *	Not available	Operating temperature (T-T)	5 - 35 °C
Network		Storage temperature (T-T)	-40 - 65 °C
Ethernet LAN *	✓	Operating relative humidity (H-H)	8 - 85%
Ethernet LAN data rates	10,100,1000 Mbit/s	Storage relative humidity (H-H)	5 - 95%
Cabling technology	10/100/1000Base-T(X)	Weight & dimensions	
Wi-Fi *	✗	Width *	176.5 mm
Ports & interfaces		Depth *	518.3 mm
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	8	Height *	417.9 mm
USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity *	2	Weight *	15.9 kg
DVI port	✗	Packaging content	
PS/2 ports quantity	2	Mouse included on selected markets only	✓
Ethernet LAN (RJ-45) ports	1	Keyboard included on selected markets only	✓
Microphone in	✓	Cables included	AC
Headphone outputs	1	Manual	✓
Line-out	✓	Power cord included	✓
Line-in	✓	Display	
Serial ports quantity	1	Display included *	✗
On/off button	✓	Other features	
Expansion slots		Optical drives quantity	1
PCI-X slots	1		
Design			
Chassis type *	Tower		
Placement supported	Vertical		
Product colour *	Black		
Performance			
Market positioning	Business		
Motherboard chipset	Intel® C422		
Compatible processor series	Intel® Xeon®		



5397184211533

Disclaimer. The information published here (the "Information") is based on sources that can be considered reliable, typically the manufacturer, but this Information is provided "AS IS" and without guarantee of correctness or completeness. The Information is only indicative and can be changed at any time without notification. No rights can be based on the Information. Suppliers or aggregators of this Information do not accept any liability with regard to the content of (web)pages and other documents, including its Information. The publisher of the Information can not be held liable for the content of 3rd party websites that are linking this Information or are linked to from this Information. You as the User of the Information are solely responsible for the choice and usage of this Information. You are not entitled to transfer, copy or otherwise multiply or distribute the Information. You are obliged to follow the directions of the copyright owner(s) with regard to the use of the Information. Exclusively Dutch law is applicable. With regard to price and stock data on the site, the publisher followed a number of starting points, which are not necessarily relevant for your private or business circumstances. Therefore, the price and stock data are only indicative and are subject to changes. You are personally responsible for the way you use and apply this information. As a user of the Information or sites or documents in which this Information is included, you will adhere to standard fair use including avoidance of spamming, ripping, intellectual-property violations, privacy violations, and any other illegal activity.

Publication date: 27-APR-2025. Prints or copies of Information are only valid on the printed Publication date