



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

Brand : DELL

Product family: Precision

Product code: GW9KH

Product name : 5820



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®		



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