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

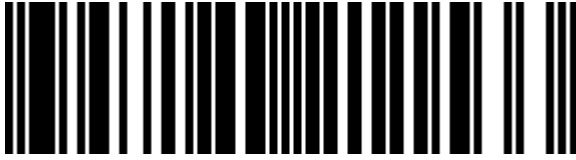**Brand :** DELL   **Product family:** Precision   **Product code:** GW9KH

Product name : 5820

Processor

Processor manufacturer *	Intel
Processor family *	Intel® Xeon®
Processor model *	W-2135
Processor cores	6
Processor threads	12
Processor boost frequency	4.5 GHz
Processor frequency *	3.7 GHz
Processor socket	LGA 2066 (Socket R4)
Processor cache	8.25 MB
System bus rate	0 GT/s
Bus type	QPI
Processor lithography	14 nm
Processor operating modes	64-bit
Processor codename	Skylake
Thermal Design Power (TDP)	140 W
Tcase	64 °C
PCI Express slots version	3.0
Maximum number of PCI Express lanes	48
PCI Express configurations	1x16, 1x4, 1x8
Number of processors installed	1
Stepping	U0
Maximum internal memory supported by processor	512 GB
Memory types supported by processor	DDR4-SDRAM
Memory clock speeds supported by processor	1600,1866,2133,2400,2666 MHz
Memory bandwidth supported by processor (max)	85.3 GB/s

Performance

Audio chip	Realtek ALC3234
Audio system	High Definition Audio
Password protection	✔
Product type *	Workstation

Software

Operating system installed *	Windows 10 Pro
Operating system architecture	64-bit
Operating system language	Multilingual
Trial software	Microsoft Office

Processor special features

Intel 64	✔
Enhanced Intel SpeedStep Technology	✔
Embedded options available	✘
Intel VT-x with Extended Page Tables (EPT)	✔
Intel TSX-NI	✔
Idle States	✔
Thermal Monitoring Technologies	✔
Intel® AES New Instructions (Intel® AES-NI)	✔
Intel® Secure Key	✔
Intel® OS Guard	✔
Intel Trusted Execution Technology	✔
Execute Disable Bit	✔
Intel Flex Memory Access	✘
Intel Enhanced Halt State	✔

Processor

ECC supported by processor	✔

Memory

Internal memory *	32 GB
Maximum internal memory *	256 GB
Internal memory type	DDR4-SDRAM
Memory layout (slots x size)	2 x 16 GB
Memory slots	8x DIMM
Memory clock speed	2666 MHz
Memory channels	Quad-channel

Storage

Total storage capacity *	512 GB
Storage media *	SSD
Optical drive type *	DVD-RW
Number of storage drives installed	1
Total SSDs capacity	512 GB
Number of SSDs installed	1
SSD capacity	512 GB
SSD interface	PCI Express
SSD form factor	M.2
Card reader integrated	✔
Compatible memory cards	SD

Graphics

Discrete graphics card *	✘
Discrete graphics card model *	Not available

Network

Ethernet LAN *	✔
Ethernet LAN data rates	10,100,1000 Mbit/s
Cabling technology	10/100/1000Base-T(X)
Wi-Fi *	✘

Ports & interfaces

USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	8
USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity *	2
DVI port	✘
PS/2 ports quantity	2
Ethernet LAN (RJ-45) ports	1
Microphone in	✔
Headphone outputs	1
Line-out	✔
Line-in	✔
Serial ports quantity	1
On/off button	✔

Expansion slots

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®

Processor special features

Intel Demand Based Switching	✔
Intel Software Guard Extensions (Intel SGX)	✘
Processor package size	45 x 52.5 mm
Supported instruction sets	AVX, AVX 2.0, AVX-512, SSE4.2
Processor code	SR3LN
Scalability	1S
Physical Address Extension (PAE)	✔
Physical Address Extension (PAE)	46 bit
CPU configuration (max)	1
Intel Virtualization Technology for Directed I/O (VT-d)	✔
Intel Identity Protection Technology version	1.00
Intel Secure Key Technology version	1.00
Intel Virtualization Technology (VT-x)	✔
Intel TSX-NI version	1.00
Processor ARK ID	126709
Intel® Turbo Boost Technology	2.0
Intel® Hyper Threading Technology (Intel® HT Technology)	✔
Intel® Identity Protection Technology (Intel® IPT)	✔
Conflict-Free processor	✔

Power

Power supply input voltage	100 - 240 V
Power supply input frequency	50 - 60 Hz

Operational conditions

Operating temperature (T-T)	5 - 35 °C
Storage temperature (T-T)	-40 - 65 °C
Operating relative humidity (H-H)	8 - 85%
Storage relative humidity (H-H)	5 - 95%

Weight & dimensions

Width *	176.5 mm
Depth *	518.3 mm
Height *	417.9 mm
Weight *	15.9 kg

Packaging content

Mouse included on selected markets only	✔
Keyboard included on selected markets only	✔
Cables included	AC
Manual	✔
Power cord included	✔

Display

Display included *	✘

Other features

Optical drives quantity	1

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