



## 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

**Product 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 colour: 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                           | <b>Software</b>                             |                       |
| 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                       | <b>Processor special features</b>           |                       |
| 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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