



## Lenovo Xeon Intel Silver 4316 processor 2.3 GHz 30 MB

**Brand :** Lenovo

**Product family:** Xeon

**Product code:** 4XG7A63465

**Product name :** Intel Xeon Silver 4316



Intel Xeon Silver Silver 4316 Processor (30MB Cache, up to 3.4 GHz)

Lenovo Xeon Intel Silver 4316. Processor family: Intel Xeon Silver, Processor socket: LGA 4189, Processor lithography: 10 nm. Memory channels: Octa-channel, Maximum internal memory supported by processor: 6 TB, Memory types supported by processor: DDR4-SDRAM. Market segment: Server, Supported instruction sets: SSE4.2, AVX, AVX 2.0, AVX-512, Scalability: 2S. Maximum Enclave Size Support for Intel® SGX: 8 GB. Processor package size: 77.5 x 56.5 mm

| Processor                                      |                                      | Processor special features                              |                 |
|------------------------------------------------|--------------------------------------|---------------------------------------------------------|-----------------|
| Processor manufacturer *                       | Intel                                | Intel® AES New Instructions (Intel® AES-NI)             | ✓               |
| Processor generation                           | 3rd Generation Intel® Xeon® Scalable | Intel Trusted Execution Technology                      | ✓               |
| Processor model *                              | 4316                                 | Intel® Speed Shift Technology                           | ✓               |
| Processor base frequency *                     | 2.3 GHz                              | Intel® Transactional Synchronization Extensions         | ✓               |
| Processor family *                             | Intel Xeon Silver                    | Intel® Total Memory Encryption                          | ✓               |
| Processor cores *                              | 20                                   | Intel® Crypto Acceleration                              | ✓               |
| Processor socket *                             | LGA 4189                             | Intel® Platform Firmware Resilience Support             | ✓               |
| Component for                                  | Server/workstation                   | Maximum Enclave Size Support for Intel® SGX             | 8 GB            |
| Processor lithography *                        | 10 nm                                | Intel VT-x with Extended Page Tables (EPT)              | ✓               |
| Processor threads                              | 40                                   | Intel Software Guard Extensions (Intel SGX)             | ✓               |
| System bus rate                                | 10.4 GT/s                            | Intel 64                                                | ✓               |
| Processor operating modes *                    | 64-bit                               | Intel Virtualization Technology (VT-x)                  | ✓               |
| Processor boost frequency                      | 3.4 GHz                              | Intel Virtualization Technology for Directed I/O (VT-d) | ✓               |
| Processor cache                                | 30 MB                                | AVX-512 Fused Multiply-Add (FMA) units                  | 2               |
| Thermal Design Power (TDP)                     | 150 W                                | Intel® Deep Learning Boost (Intel® DL Boost) on CPU     | ✓               |
| Processor codename                             | Ice Lake                             | Intel® Resource Director Technology (Intel® RDT)        | ✓               |
| Processor ARK ID                               | 215270                               | Intel® Volume Management Device (VMD)                   | ✓               |
| Memory                                         |                                      | Mode-based Execute Control (MBE)                        | ✓               |
| Maximum internal memory supported by processor | 6 TB                                 | Intel® Optane™ DC Persistent Memory Supported           | ✗               |
| Memory types supported by processor            | DDR4-SDRAM                           | Operational conditions                                  |                 |
| Memory clock speeds supported by processor     | 2667 MHz                             | Tcase                                                   | 84 °C           |
| Memory channels *                              | Octa-channel                         | Technical details                                       |                 |
| ECC                                            | ✓                                    | Target market                                           | Cloud Computing |
| Graphics                                       |                                      | Launch date                                             | Q2'21           |
| On-board graphics card *                       | ✗                                    | Status                                                  | Launched        |
| Discrete graphics card *                       | ✗                                    | Supported memory types                                  | DDR4-SDRAM      |
| On-board graphics card model *                 | Not available                        | Memory speed (max)                                      | 2667 MHz        |
| Discrete graphics card model *                 | Not available                        | Number of UPI links                                     | 2               |
| Features                                       |                                      |                                                         |                 |
| Execute Disable Bit                            | ✓                                    |                                                         |                 |
| Market segment                                 | Server                               |                                                         |                 |
| Maximum number of PCI Express lanes            | 64                                   |                                                         |                 |
| PCI Express slots version                      | 4.0                                  |                                                         |                 |
| Supported instruction sets                     | SSE4.2, AVX, AVX 2.0, AVX-512        |                                                         |                 |

| Features                                                   |          | Logistics data              |                |
|------------------------------------------------------------|----------|-----------------------------|----------------|
| Scalability                                                | 25       | Harmonized System (HS) code | 85423119       |
| Embedded options available                                 | ✓        | Weight & dimensions         |                |
| Export Control Classification Number (ECCN)                | 5A992CN3 | Processor package size      | 77.5 x 56.5 mm |
| Commodity Classification Automated Tracking System (CCATS) | G178966  | Other features              |                |
| Processor special features                                 |          | Maximum internal memory     | 6 TB           |
| Intel® Hyper Threading Technology (Intel® HT Technology)   | ✓        |                             |                |
| Intel® Turbo Boost Technology                              | 2.0      |                             |                |



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### Catalog Object Cloud



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