



Lenovo Xeon Intel Silver 4309Y Option Kit w/o Fan processor 2.8 GHz 12 MB

Brand : Lenovo

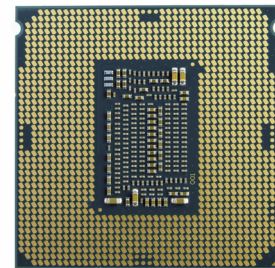
Product family: Xeon

Product code: 4XG7A63398

Product name : Intel Silver 4309Y Option Kit w/o Fan

Intel Xeon Silver 4309Y Processor (12MB Cache, up to 3.6 GHz)

Lenovo Xeon Intel Silver 4309Y Option Kit w/o Fan. Processor family: Intel Xeon Silver, Processor socket: LGA 4189, Processor lithography: 10 nm. Memory channels: Octa-channel, Maximum internal memory supported by processor: 6.14 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. Package type: Retail box



| 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 * | 4309Y | Intel® Speed Shift Technology | ✓ |
| Processor base frequency * | 2.8 GHz | Intel® Transactional Synchronization Extensions | ✓ |
| Processor family * | Intel Xeon Silver | Intel® Total Memory Encryption | ✓ |
| Processor cores * | 8 | 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 | 16 | 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 | 3.6 GHz | Intel Virtualization Technology for Directed I/O (VT-d) | ✓ |
| Processor cache | 12 MB | AVX-512 Fused Multiply-Add (FMA) units | 2 |
| Thermal Design Power (TDP) | 105 W | Intel® Deep Learning Boost (Intel® DL Boost) | ✓ |
| Box * | ✗ | Intel® Speed Select technology - Performance Profile (Intel® SST-PP) | ✓ |
| Cooler included * | ✗ | Intel® Resource Director Technology (Intel® RDT) | ✓ |
| Processor codename | Ice Lake | Intel® Volume Management Device (VMD) | ✓ |
| Processor ARK ID | 215275 | Mode-based Execute Control (MBE) | ✓ |
| Memory | | | |
| Maximum internal memory supported by processor | 6.14 TB | | |
| Memory types supported by processor | DDR4-SDRAM | | |
| Memory clock speeds supported by processor | 2667 MHz | | |
| Memory channels * | Octa-channel | | |
| ECC | ✓ | | |

| Graphics | | Processor special features | |
|--|-------------------------------|---|----------------|
| On-board graphics card * | ✘ | Intel® Optane™ DC Persistent Memory Supported | ✘ |
| Discrete graphics card * | ✘ | Operational conditions | |
| On-board graphics card model * | Not available | Tcase | 76 °C |
| Discrete graphics card model * | Not available | Technical details | |
| Features | | Launch date | Q2'21 |
| Execute Disable Bit | ✓ | Status | Launched |
| Market segment | Server | Supported memory types | DDR4-SDRAM |
| Maximum number of PCI Express lanes | 64 | Memory speed (max) | 2667 MHz |
| PCI Express slots version | 4.0 | Number of UPI links | 2 |
| Supported instruction sets | SSE4.2, AVX, AVX 2.0, AVX-512 | Logistics data | |
| Scalability | 2S | Harmonized System (HS) code | 85423119 |
| Embedded options available | ✘ | Packaging data | |
| Export Control Classification Number (ECCN) | 5A992CN3 | Package type | Retail box |
| Commodity Classification Automated Tracking System (CCATS) | G178966 | Weight & dimensions | |
| Processor special features | | Processor package size | 77.5 x 56.5 mm |
| Intel® Hyper Threading Technology (Intel® HT Technology) | ✓ | Other features | |
| Intel® Turbo Boost Technology | 2.0 | Maximum internal memory | 6 TB |



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