

Intel Xeon Gold 6338 processor 2 GHz 48 MB

Brand : Intel

Product family: Xeon

Product code:
CD8068904572501

Product name : Gold 6338

Intel Xeon Gold 6338 Processor (48MB Cache, up to 3.2 GHz)

Intel Xeon Gold 6338. Processor family: Intel® Xeon®, 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: 64 GB. Processor package size: 77.5 x 56.5 mm



| Processor | | Processor special features | |
|--|--------------------------------------|---|------------|
| Processor manufacturer * | Intel | Intel® Turbo Boost Technology | 2.0 |
| Processor generation | 3rd Generation Intel® Xeon® Scalable | Intel® AES New Instructions (Intel® AES-NI) | ✓ |
| Processor model * | 6338 | Intel Trusted Execution Technology | ✓ |
| Processor base frequency * | 2 GHz | Intel® Speed Shift Technology | ✓ |
| Processor family * | Intel® Xeon® | Intel® Transactional Synchronization Extensions | ✓ |
| Processor cores * | 32 | Intel® Total Memory Encryption | ✓ |
| Processor socket * | LGA 4189 | Intel® Crypto Acceleration | ✓ |
| Component for | Server/workstation | Intel® Platform Firmware Resilience Support | ✓ |
| Processor lithography * | 10 nm | Maximum Enclave Size Support for Intel® SGX | 64 GB |
| Processor threads | 64 | Intel VT-x with Extended Page Tables (EPT) | ✓ |
| System bus rate | 11.2 GT/s | Intel Software Guard Extensions (Intel SGX) | ✓ |
| Processor operating modes * | 64-bit | Intel 64 | ✓ |
| Processor boost frequency | 3.2 GHz | Intel Virtualization Technology (VT-x) | ✓ |
| High priority cores | 12 | Intel Virtualization Technology for Directed I/O (VT-d) | ✓ |
| High priority core frequency | 2.2 GHz | Intel® Optane™ Memory Ready | ✓ |
| Low priority cores | 20 | AVX-512 Fused Multiply-Add (FMA) units | 2 |
| Low priority core frequency | 1.8 GHz | Intel® Deep Learning Boost (Intel® DL Boost) | ✓ |
| Processor cache | 48 MB | Intel® Resource Director Technology (Intel® RDT) | ✓ |
| Thermal Design Power (TDP) | 205 W | Intel® Volume Management Device (VMD) | ✓ |
| Box * | ✗ | Intel® Run Sure Technology | ✓ |
| Cooler included * | ✗ | Mode-based Execute Control (MBE) | ✓ |
| Processor codename | Ice Lake | Intel® Optane™ DC Persistent Memory Supported | ✓ |
| Processor ARK ID | 212285 | | |
| Memory | | Operational conditions | |
| Maximum internal memory supported by processor | 6.14 TB | Tc case | 81 °C |
| Memory types supported by processor | DDR4-SDRAM | Technical details | |
| Memory clock speeds supported by processor | 3200 MHz | Launch date | Q2'21 |
| Memory channels * | Octa-channel | Status | Launched |
| ECC | ✓ | Supported memory types | DDR4-SDRAM |
| | | Memory speed (max) | 3200 MHz |
| Graphics | | | |
| On-board graphics card * | ✗ | | |
| Discrete graphics card * | ✗ | | |
| On-board graphics card model * | Not available | | |
| Discrete graphics card model * | Not available | | |

| Features | | Technical details | |
|--|-------------------------------|-----------------------------|--------------------|
| Execute Disable Bit | ✓ | Number of UPI links | 3 |
| Market segment | Server | Servicing status | Baseline Servicing |
| Maximum number of PCI Express lanes | 64 | Logistics data | |
| PCI Express slots version | 4.0 | Harmonized System (HS) code | 85423119 |
| Supported instruction sets | SSE4.2, AVX, AVX 2.0, AVX-512 | Weight & dimensions | |
| Scalability | 2S | Processor package size | 77.5 x 56.5 mm |
| Embedded options available | ✗ | Other features | |
| Export Control Classification Number (ECCN) | 5A992CN3 | Maximum internal memory | 6 TB |
| Commodity Classification Automated Tracking System (CCATS) | G178966 | | |
| Processor special features | | | |
| Intel® Hyper Threading Technology (Intel® HT Technology) | ✓ | | |



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