

## Intel Xeon 6256 processor 3.6 GHz 33 MB

Brand : Intel

Product family: Xeon

Product code:  
CD8069504425301

Product name : 6256



Intel Xeon Gold 6256 Processor (33MB Cache, up to 4.5 GHz)

Intel Xeon 6256. Processor family: Intel® Xeon® Gold, Processor socket: LGA 3647 (Socket P), Processor lithography: 14 nm. Memory channels: Hexa-channel, Maximum internal memory supported by processor: 1.02 TB, Memory types supported by processor: DDR4-SDRAM. Market segment: Server, Supported instruction sets: SSE4.2, AVX, AVX 2.0, AVX-512, Scalability: S4S. Processor package size: 76mm x 56.5mm. Maximum internal memory: 1 TB

| Processor                                      |                                      | Processor special features   |                    |
|--|--------------------------------------|--|--------------------|
| Processor manufacturer *                       | Intel                                | Intel Trusted Execution Technology                                   | ✓                  |
| Processor generation                           | 2nd Generation Intel® Xeon® Scalable | Intel® Speed Shift Technology  | ✓                  |
| Processor model *                              | 6256                                 | Intel® Transactional Synchronization Extensions                      | ✓                  |
| Processor base frequency *                     | 3.6 GHz                              | Intel VT-x with Extended Page Tables (EPT)                           | ✓                  |
| Processor family *                             | Intel® Xeon® Gold                    | Intel 64   | ✓                  |
| Processor cores *                              | 12                                   | Intel Virtualization Technology (VT-x)                               | ✓                  |
| Processor socket *                             | LGA 3647 (Socket P)                  | Intel Virtualization Technology for Directed I/O (VT-d)              | ✓                  |
| Component for                                  | Server/workstation                   | Intel Turbo Boost Max Technology 3.0                                 | ✗                  |
| Processor lithography *                        | 14 nm                                | AVX-512 Fused Multiply-Add (FMA) units                               | 2                  |
| Processor threads                              | 24                                   | Intel® Deep Learning Boost (Intel® DL Boost)                         | ✓                  |
| Processor operating modes *                    | 64-bit                               | Intel® Speed Select technology - Performance Profile (Intel® SST-PP) | ✗                  |
| Processor boost frequency                      | 4.5 GHz                              | Intel® Resource Director Technology (Intel® RDT)                     | ✓                  |
| Processor cache                                | 33 MB                                | Intel® Volume Management Device (VMD)                                | ✓                  |
| Thermal Design Power (TDP)                     | 205 W                                | Intel® Run Sure Technology   | ✓                  |
| Box *  | ✗                                    | Mode-based Execute Control (MBE)                                     | ✓                  |
| Cooler included *                              | ✗                                    | Intel® Optane™ DC Persistent Memory Supported                        | ✓                  |
| Processor codename                             | Cascade Lake                         | Intel® vPro™ Platform Eligibility                                    | ✓                  |
| Processor ARK ID                               | 198655                               | Intel Speed Select Technology (SST)                                  | ✗                  |
|  |                                      | Intel® Speed Select Technology - Base Frequency (Intel® SST-BF)      | ✗                  |
|  |                                      | Intel® Optane™ DC Persistent Memory technology                       | ✓                  |
| Memory   |                                      | Operational conditions   |                    |
| Maximum internal memory supported by processor | 1.02 TB                              | Tcase  | 64 °C              |
| Memory types supported by processor            | DDR4-SDRAM                           | Technical details  |                    |
| Memory clock speeds supported by processor     | 2933 MHz                             | Target market  | Cloud Computing    |
| Memory channels *                              | Hexa-channel                         | Launch date  | Q1'20              |
| ECC  | ✓                                    | Product type   | Processor          |
| Graphics                                       |                                      | Status   | Launched           |
| On-board graphics card *                       | ✗                                    | Supported memory types   | DDR4-SDRAM         |
| Discrete graphics card *                       | ✗                                    | Memory speed (max)   | 2933 MHz           |
| On-board graphics card model *                 | Not available                        | Number of UPI links  | 3                  |
| Discrete graphics card model *                 | Not available                        | Servicing status   | Baseline Servicing |
| Features                                       |                                      |  |                    |
| Execute Disable Bit                            | ✓                                    |  |                    |
| Market segment                                 | Server                               |  |                    |
| Maximum number of PCI Express lanes            | 48                                   |  |                    |
| PCI Express slots version                      | 3.0                                  |  |                    |
| Supported instruction sets                     | SSE4.2, AVX, AVX 2.0, AVX-512        |  |                    |
| Scalability                                    | S4S                                  |  |                    |
| Embedded options available                     | ✗                                    |  |                    |

| Features   |         | Logistics data              |               |
|--|---------|-----------------------------|---------------|
| PCI Express CEM revision                                   | 3.0     | Harmonized System (HS) code | 85423119      |
| Export Control Classification Number (ECCN)                | 5A992C  | Weight & dimensions         |               |
| Commodity Classification Automated Tracking System (CCATS) | G077159 | Processor package size      | 76mm x 56.5mm |
| Processor special features                                 |         | Other features              |               |
| Intel® Hyper Threading Technology (Intel® HT Technology)   | ✓       | Maximum internal memory     | 1 TB          |
| Intel® Turbo Boost Technology                              | 2.0     |                             |               |
| Intel® AES New Instructions (Intel® AES-NI)                | ✓       |                             |               |
| Enhanced Intel SpeedStep Technology                        | ✓       |                             |               |



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