

Intel Xeon 6244 processor 3.6 GHz 24.75 MB

Brand : Intel

Product family: Xeon

Product code:
CD8069504194202

Product name : 6244



Intel Xeon Gold 6244 Processor (25MB Cache, up to 4.4 GHz)

Intel Xeon 6244. 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: 4S. 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 * | 6244 | Intel® Transactional Synchronization Extensions | ✓ |
| Processor base frequency * | 3.6 GHz | Intel VT-x with Extended Page Tables (EPT) | ✓ |
| Processor family * | Intel® Xeon® Gold | Intel TSX-NI | ✓ |
| Processor cores * | 8 | Intel 64 | ✓ |
| Processor socket * | LGA 3647 (Socket P) | Intel Virtualization Technology (VT-x) | ✓ |
| Component for | Server/workstation | Intel Virtualization Technology for Directed I/O (VT-d) | ✓ |
| Processor lithography * | 14 nm | Intel Turbo Boost Max Technology 3.0 | ✗ |
| Processor threads | 16 | AVX-512 Fused Multiply-Add (FMA) units | 2 |
| Processor operating modes * | 64-bit | Intel® Deep Learning Boost (Intel® DL Boost) | ✓ |
| Processor boost frequency | 4.4 GHz | Intel® Speed Select technology - Performance Profile (Intel® SST-PP) | ✗ |
| Processor cache | 24.75 MB | Intel® Resource Director Technology (Intel® RDT) | ✓ |
| Thermal Design Power (TDP) | 150 W | Intel® Volume Management Device (VMD) | ✓ |
| Box * | ✗ | Intel® Run Sure Technology | ✓ |
| Cooler included * | ✗ | Mode-based Execute Control (MBE) | ✓ |
| Processor codename | Cascade Lake | Intel® Optane™ DC Persistent Memory Supported | ✓ |
| Processor ARK ID | 192442 | Intel® vPro™ Platform Eligibility | ✓ |
| Memory | | Intel Speed Select Technology (SST) | ✗ |
| Maximum internal memory supported by processor | 1.02 TB | Intel® Speed Select Technology - Base Frequency (Intel® SST-BF) | ✗ |
| Memory types supported by processor | DDR4-SDRAM | Intel® Optane™ DC Persistent Memory technology | ✓ |
| Memory clock speeds supported by processor | 2933 MHz | Operational conditions | |
| Memory channels * | Hexa-channel | Tcase | 74 °C |
| ECC | ✓ | Technical details | |
| Graphics | | Launch date | Q2'19 |
| On-board graphics card * | ✗ | Product type | Processor |
| Discrete graphics card * | ✗ | Status | Launched |
| On-board graphics card model * | Not available | Supported memory types | DDR4-SDRAM |
| Discrete graphics card model * | Not available | Memory speed (max) | 2933 MHz |
| Features | | Number of UPI links | 3 |
| Execute Disable Bit | ✓ | Servicing status | Baseline Servicing |
| 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 | 4S | | |
| 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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