



HP Intel Xeon Gold 5122 processor 3.6 GHz 16.5 MB L3

Brand : HP

Product code: L09261-001

Product name : Intel Xeon Gold 5122

Intel Xeon Gold 5122, 16.5M Cache, 3.6 GHz, 105 W TDP, FCLGA3647

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HP Intel Xeon Gold 5122. 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: 768 GB, Memory types supported by processor: DDR4-SDRAM. Market segment: Server, Supported instruction sets: AVX, AVX 2.0, AVX-512, SSE4.2, Scalability: S4S

| Processor | | Features | |
|--|--------------------------------------|--|-------------------------------|
| Processor generation | 1st Generation Intel® Xeon® Scalable | Scalability | S4S |
| Processor model * | 5122 | Embedded options available | ✗ |
| Processor base frequency * | 3.6 GHz | Processor special features | |
| Processor family * | Intel® Xeon® Gold | Intel® Hyper Threading Technology (Intel® HT Technology) | ✓ |
| Processor cores * | 4 | Intel® Turbo Boost Technology | 2.0 |
| Processor socket * | LGA 3647 (Socket P) | Intel® AES New Instructions (Intel® AES-NI) | ✓ |
| Component for | Server/workstation | Enhanced Intel SpeedStep Technology | ✓ |
| Processor lithography * | 14 nm | Intel Trusted Execution Technology | ✓ |
| Processor series | Intel Xeon Gold 5000 Series | Intel® Speed Shift Technology | ✓ |
| Processor threads | 8 | Intel VT-x with Extended Page Tables (EPT) | ✓ |
| Processor operating modes * | 64-bit | Intel TSX-NI | ✓ |
| Processor boost frequency | 3.7 GHz | Intel 64 | ✓ |
| Processor cache | 16.5 MB | Intel Virtualization Technology (VT-x) | ✓ |
| Processor cache type | L3 | Intel Virtualization Technology for Directed I/O (VT-d) | ✓ |
| Thermal Design Power (TDP) | 105 W | Intel Turbo Boost Max Technology 3.0 | ✗ |
| Cooler included * | ✗ | Intel® Optane™ Memory Ready | ✗ |
| Stepping | H0 | AVX-512 Fused Multiply-Add (FMA) units | 1 |
| Bus type | UPI | Intel® vPro™ Platform Eligibility | ✓ |
| Processor codename | Skylake | Operational conditions | |
| Memory | | Technical details | |
| Maximum internal memory supported by processor | 768 GB | Intel® Volume Management Device (VMD) version | ✓ |
| Memory types supported by processor | DDR4-SDRAM | Mode-based Execute Control (MBE) version | ✓ |
| Memory clock speeds supported by processor | 2666 MHz | Number of UPI links | 2 |
| Memory channels * | Hexa-channel | Features | |
| ECC | ✓ | Execute Disable Bit | ✓ |
| Graphics | | Market segment | Server |
| On-board graphics card * | ✗ | Maximum number of PCI Express lanes | 48 |
| Discrete graphics card * | ✗ | PCI Express slots version | 3.0 |
| Features | | Supported instruction sets | AVX, AVX 2.0, AVX-512, SSE4.2 |

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