

Intel Xeon 6144 processor 3.5 GHz 24.75 MB L3

Brand : Intel

Product family: Xeon

Product code:
CD8067303843000

Product name : 6144



Intel® Xeon® Gold 6144 Processor
(24.75M Cache, 3.50 GHz)

Intel Xeon 6144. 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: SSE4.2, AVX, AVX 2.0, AVX-512, Scalability: S4S. Processor package size: 76mm x 56.5mm. Maximum internal memory: 768 GB, Maximum internal memory: 786432 MB



| Processor | | Processor special features | |
|--|--------------------------------------|---|---|
| Processor manufacturer * | Intel | Intel Trusted Execution Technology | ✓ |
| Processor generation | 1st Generation Intel® Xeon® Scalable | Intel® Speed Shift Technology | ✓ |
| Processor model * | 6144 | Intel® Transactional Synchronization Extensions | ✓ |
| Processor base frequency * | 3.5 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 TSX-NI version | 1.00 |
| Processor series | Intel Xeon Gold 6000 Series | Conflict-Free processor | ✓ |
| Processor threads | 16 | Intel Turbo Boost Max Technology 3.0 | ✗ |
| Processor operating modes * | 64-bit | Intel® Optane™ Memory Ready | ✗ |
| Processor boost frequency | 4.2 GHz | AVX-512 Fused Multiply-Add (FMA) units | 2 |
| Processor cache | 24.75 MB | Intel® Volume Management Device (VMD) | ✓ |
| Processor cache type | L3 | Intel® Run Sure Technology | ✓ |
| Thermal Design Power (TDP) | 150 W | Mode-based Execute Control (MBE) | ✓ |
| Box * | ✗ | Intel® vPro™ Platform Eligibility | ✓ |
| Cooler included * | ✗ | | |
| Stepping | H0 | | |
| Bus type | UPI | | |
| Processor codename | Skylake | | |
| Processor code | SR3TR | | |
| Processor ARK ID | 124943 | | |
| | | Operational conditions | |
| | | Tcase | 75 °C |
| | | Technical details | |
| | | Launch date | Q3'17 |
| | | Processor cache | 25344 KB |
| | | Product type | Processor |
| | | Status | Launched |
| | | Maximum memory | 768 GB |
| | | Processor brand name | Intel Xeon Gold Intel Xeon Gold Processor |
| | | Supported memory types | DDR4-SDRAM |
| | | Last change | 63903513 |
| | | Product family | Intel Xeon Processors |
| | | Intel® Speed Shift Technology version | 1.00 |
| | | Intel® Run Sure Technology version | 1.00 |
| Memory | | | |
| Maximum internal memory supported by processor | 768 GB | | |
| Memory types supported by processor | DDR4-SDRAM | | |
| Memory clock speeds supported by processor | 2666 MHz | | |
| Memory channels * | Hexa-channel | | |
| ECC | ✓ | | |
| Graphics | | | |
| On-board graphics card * | ✗ | | |
| Features | | | |
| Execute Disable Bit | ✓ | | |
| Market segment | Server | | |
| Maximum number of PCI Express lanes | 48 | | |

| Features | | Technical details | |
|--|-------------------------------|---|---------------|
| PCI Express slots version | 3.0 | Intel® Volume Management Device (VMD) version | 1.00 |
| Supported instruction sets | SSE4.2, AVX, AVX 2.0, AVX-512 | Memory speed (max) | 2666 MHz |
| Scalability | S4S | Mode-based Execute Control (MBE) version | 1.00 |
| Embedded options available | ✘ | Number of UPI links | 3 |
| PCI Express CEM revision | 3.0 | Logistics data | |
| Export Control Classification Number (ECCN) | 5A992C | Harmonized System (HS) code | 8542310001 |
| Commodity Classification Automated Tracking System (CCATS) | G077159 | Weight & dimensions | |
| Processor special features | | Processor package size | 76mm x 56.5mm |
| Intel® Hyper Threading Technology (Intel® HT Technology) | ✓ | Other features | |
| Intel® Turbo Boost Technology | 2.0 | Maximum internal memory | 768 GB |
| Intel® AES New Instructions (Intel® AES-NI) | ✓ | Maximum internal memory | 786432 MB |
| Enhanced Intel SpeedStep Technology | ✓ | | |



0675901514439



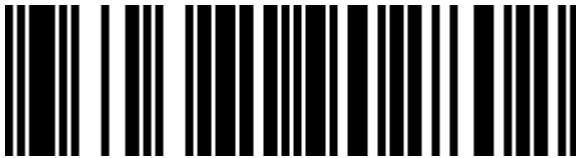
675901514439



8592978110581



5054444158785



7330381902802

Disclaimer. The information published here (the "Information") is based on sources that can be considered reliable, typically the manufacturer, but this Information is provided "AS IS" and without guarantee of correctness or completeness. The Information is only indicative and can be changed at any time without notification. No rights can be based on the Information. Suppliers or aggregators of this Information do not accept any liability with regard to the content of (web)pages and other documents, including its Information. The publisher of the Information can not be held liable for the content of 3rd party websites that are linking this Information or are linked to from this Information. You as the User of the Information are solely responsible for the choice and usage of this Information. You are not entitled to transfer, copy or otherwise multiply or distribute the Information. You are obliged to follow the directions of the copyright owner(s) with regard to the use of the Information. Exclusively Dutch law is applicable. With regard to price and stock data on the site, the publisher followed a number of starting points, which are not necessarily relevant for your private or business circumstances. Therefore, the price and stock data are only indicative and are subject to changes. You are personally responsible for the way you use and apply this information. As a user of the Information or sites or documents in which this Information is included, you will adhere to standard fair use including avoidance of spamming, ripping, intellectual-property violations, privacy violations, and any other illegal activity.