

Intel Xeon E3-1270V6 processor 3.8 GHz 8 MB Smart Cache

Brand : Intel

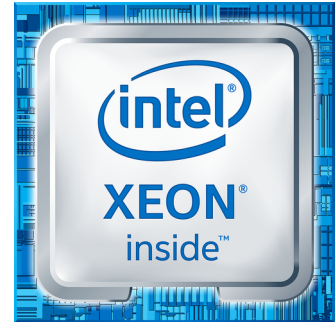
Product family: Xeon

Product code:
CM8067702870648

Product name : E3-1270V6

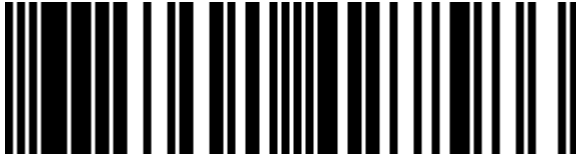
Intel® Xeon® Processor E3-1270 v6
(8M Cache, 3.80 GHz)

Intel Xeon E3-1270V6. Processor family: Intel® Xeon® E3 v6, Processor socket: LGA 1151 (Socket H4), Processor lithography: 14 nm. Memory channels: Dual-channel, Maximum internal memory supported by processor: 64 GB, Memory types supported by processor: DDR4-SDRAM, DDR3L-SDRAM. Market segment: Server, PCI Express configurations: 1x16, 2x8, 1x8+2x4, Supported instruction sets: SSE4.1, SSE4.2, AVX 2.0. Intel® Turbo Boost Technology 2.0 frequency: 4.2 GHz. Package type: Retail box



| Processor | | Processor special features | |
|--|-----------------------|---|---------|
| Processor manufacturer * | Intel | Intel® AES New Instructions (Intel® AES-NI) | ✓ |
| Processor model * | E3-1270V6 | Enhanced Intel SpeedStep Technology | ✓ |
| Processor base frequency * | 3.8 GHz | Intel Trusted Execution Technology | ✓ |
| Processor family * | Intel® Xeon® E3 v6 | Intel® Memory Protection Extensions (Intel® MPX) | ✓ |
| Processor cores * | 4 | Intel® Turbo Boost Technology 2.0 frequency | 4.2 GHz |
| Processor socket * | LGA 1151 (Socket H4) | Intel® Transactional Synchronization Extensions | ✓ |
| Component for | Server/workstation | Intel Enhanced Halt State | ✓ |
| Processor lithography * | 14 nm | Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID) | ✗ |
| Processor series | Intel Xeon E3-1200 v6 | Intel VT-x with Extended Page Tables (EPT) | ✓ |
| Processor threads | 8 | Intel® Secure Key | ✓ |
| System bus rate | 8 GT/s | Intel® TSX-NI | ✓ |
| Processor operating modes * | 64-bit | Intel® OS Guard | ✓ |
| Processor boost frequency | 4.2 GHz | Intel Clear Video Technology | ✗ |
| Processor cache | 8 MB | Intel Software Guard Extensions (Intel SGX) | ✓ |
| Processor cache type | Smart Cache | Intel 64 | ✓ |
| Thermal Design Power (TDP) | 72 W | Intel Secure Key Technology version | 1.00 |
| Box * | ✗ | Intel Virtualization Technology (VT-x) | ✓ |
| Cooler included * | ✗ | Intel Virtualization Technology for Directed I/O (VT-d) | ✓ |
| VID Voltage Range | 0.55 - 1.52 V | Intel TSX-NI version | 1.00 |
| Stepping | B0 | Conflict-Free processor | ✓ |
| Bus type | DMI3 | Intel® Optane™ Memory Ready | ✓ |
| Memory bandwidth supported by processor (max) | 37.5 GB/s | | |
| Processor codename | Kaby Lake | | |
| Processor code | SR326 | | |
| Processor ARK ID | 97479 | | |
| Memory | | | |
| Maximum internal memory supported by processor | 64 GB | | |

| Memory | | Processor special features | |
|--|-------------------------|---|-----------------------------------|
| Memory types supported by processor | DDR4-SDRAM, DDR3L-SDRAM | Intel® Boot Guard | ✓ |
| Memory clock speeds supported by processor | 1866,2400 MHz | Intel® vPro™ Platform Eligibility | ✓ |
| Memory channels * | Dual-channel | Technical details | |
| ECC | ✓ | Bus bandwidth | 8 |
| Graphics | | Bus type units | GT/s |
| On-board graphics card * | ✗ | Launch date | Q1'17 |
| On-board graphics card 4K support | ✗ | Maximum resolution & refresh rate (DisplayPort) | N/A |
| Features | | Maximum resolution & refresh rate (HDMI) | N/A |
| Execute Disable Bit | ✓ | Maximum resolution & refresh rate (Integrated Flat Panel) | N/A |
| Idle States | ✓ | Maximum resolution & refresh rate (VGA) | N/A |
| Thermal Monitoring Technologies | ✓ | Processor cache | 8192 KB |
| Market segment | Server | Product type | Processor |
| Maximum number of PCI Express lanes | 16 | Status | Launched |
| PCI Express slots version | 3.0 | Maximum memory | 64 GB |
| PCI Express configurations | 1x16, 2x8, 1x8+2x4 | Processor brand name | Intel Xeon |
| Supported instruction sets | SSE4.1, SSE4.2, AVX 2.0 | Supported memory types | DDR4-SDRAM, DDR3L-SDRAM |
| Scalability | 1S | Last change | 63903513 |
| CPU configuration (max) | 1 | Product family | Intel Xeon Processor E3 v6 Family |
| Embedded options available | ✗ | Bus speed | 8 GT/s |
| PCI Express CEM revision | 3.0 | Servicing status | Baseline Servicing |
| Export Control Classification Number (ECCN) | 5A992C | Logistics data | |
| Commodity Classification Automated Tracking System (CCATS) | G077159 | Harmonized System (HS) code | 85423119 |
| Processor special features | | Packaging data | |
| Intel® Hyper Threading Technology (Intel® HT Technology) | ✓ | Package type | Retail box |
| Intel® Turbo Boost Technology | 2.0 | Weight & dimensions | |
| Intel® Quick Sync Video Technology | ✗ | Processor package size | 37.5 x 37.5 mm |
| Intel® InTru™ 3D Technology | ✗ | Other features | |
| Intel® Clear Video HD Technology (Intel® CVT HD) | ✗ | Maximum internal memory | 64 GB |
| | | Maximum internal memory | 65536 MB |
| | | Graphics output | N/A |



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