

Intel Xeon E5-1660V4 processor 3.2 GHz 20 MB Smart Cache

Brand : Intel

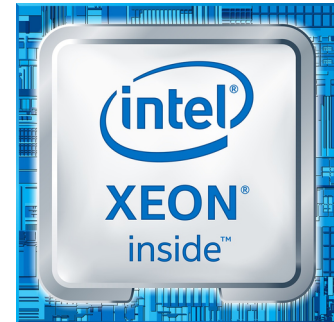
Product family: Xeon

Product code:
CM8066002646401

Product name : E5-1660V4

Intel® Xeon® Processor E5-1660 v4
(20M Cache, 3.20 GHz)

Intel Xeon E5-1660V4. Processor family: Intel® Xeon® E5 v4, Processor socket: LGA 2011-v3, Processor lithography: 14 nm. Memory channels: Quad-channel, Maximum internal memory supported by processor: 1.54 TB, Memory types supported by processor: DDR4-SDRAM. Market segment: Server, PCI Express configurations: 1x16, 1x4, 1x8, Supported instruction sets: AVX 2.0. Processor package size: 45mm x 52.5mm. Maximum internal memory: 1.5 TB, Maximum internal memory: 1572864 MB



| Processor | | Processor special features | |
|--|-----------------------|--|------|
| Processor manufacturer * | Intel | Intel® Hyper Threading Technology (Intel® HT Technology) | ✓ |
| Processor model * | E5-1660V4 | Intel® Identity Protection Technology (Intel® IPT) | ✓ |
| Processor base frequency * | 3.2 GHz | Intel® Turbo Boost Technology | 2.0 |
| Processor family * | Intel® Xeon® E5 v4 | Intel Flex Memory Access | ✗ |
| Processor cores * | 8 | Intel® AES New Instructions (Intel® AES-NI) | ✓ |
| Processor socket * | LGA 2011-v3 | Enhanced Intel SpeedStep Technology | ✓ |
| Component for | Server/workstation | Intel Trusted Execution Technology | ✓ |
| Processor lithography * | 14 nm | Intel® Transactional Synchronization Extensions | ✓ |
| Processor series | Intel Xeon E5-1600 v4 | Intel Enhanced Halt State | ✓ |
| Processor threads | 16 | Intel VT-x with Extended Page Tables (EPT) | ✓ |
| Processor operating modes * | 64-bit | Intel Demand Based Switching | ✓ |
| Processor boost frequency | 3.8 GHz | Intel® Secure Key | ✓ |
| Processor cache | 20 MB | Intel TSX-NI | ✓ |
| Processor cache type | Smart Cache | Intel® OS Guard | ✓ |
| Thermal Design Power (TDP) | 140 W | Intel 64 | ✓ |
| Box * | ✗ | Intel Identity Protection Technology version | 1.00 |
| Cooler included * | ✗ | Intel Secure Key Technology version | 1.00 |
| Stepping | R0 | Intel Virtualization Technology (VT-x) | ✓ |
| Bus type | QPI | Intel Virtualization Technology for Directed I/O (VT-d) | ✓ |
| Memory bandwidth supported by processor (max) | 76.8 GB/s | Intel TSX-NI version | 1.00 |
| Processor codename | Broadwell | Conflict-Free processor | ✓ |
| Processor code | SR2PK | | |
| Processor ARK ID | 92985 | | |
| Memory | | | |
| Maximum internal memory supported by processor | 1.54 TB | | |
| Memory types supported by processor | DDR4-SDRAM | | |

| Memory | | Processor special features | |
|--|-------------------------|--------------------------------------|-----------------------------------|
| Memory clock speeds supported by processor | 1600,1866,2133,2400 MHz | Intel Turbo Boost Max Technology 3.0 | ✓ |
| Memory channels * | Quad-channel | Intel® vPro™ Platform Eligibility | ✓ |
| ECC | ✓ | Operational conditions | |
| Graphics | | Tcase | 70 °C |
| On-board graphics card * | ✗ | Technical details | |
| Features | | Bus type units | GT/s |
| Execute Disable Bit | ✓ | Launch date | Q2'16 |
| Idle States | ✓ | Processor cache | 20480 KB |
| Thermal Monitoring Technologies | ✓ | Product type | Processor |
| Market segment | Server | Status | Launched |
| Maximum number of PCI Express lanes | 40 | Processor brand name | Intel Xeon |
| PCI Express slots version | 3.0 | Supported memory types | DDR4-SDRAM |
| PCI Express configurations | 1x16, 1x4, 1x8 | Last change | 63903513 |
| Supported instruction sets | AVX 2.0 | Product family | Intel Xeon Processor E5 v4 Family |
| Scalability | 1S | Bus speed | 0 GT/s |
| Physical Address Extension (PAE) | ✓ | Servicing status | End of Servicing Updates |
| CPU configuration (max) | 1 | End of servicing updates date | Thursday, June 30, 2022 |
| Embedded options available | ✗ | Logistics data | |
| Physical Address Extension (PAE) | 46 bit | Harmonized System (HS) code | 85423119 |
| PCI Express CEM revision | 3.0 | Weight & dimensions | |
| Export Control Classification Number (ECCN) | 5A992C | Processor package size | 45mm x 52.5mm |
| Commodity Classification Automated Tracking System (CCATS) | G077159 | Other features | |
| | | Maximum internal memory | 1.5 TB |
| | | Maximum internal memory | 1572864 MB |



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