

Intel Xeon E5-2620 processor 2 GHz 15 MB Smart Cache Box

Brand : Intel

Product family: Xeon

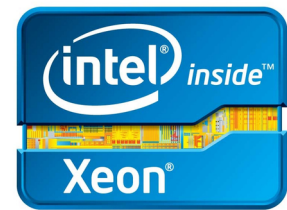
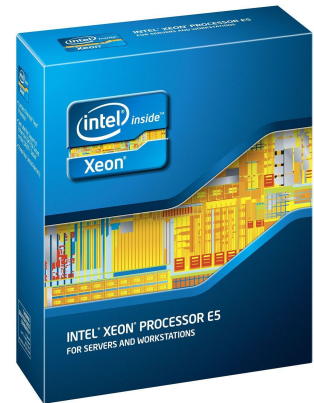
Product code:
BX80621E52620

Product name : E5-2620

Intel® Xeon® Processor E5-2620

(15M Cache, 2.00 GHz, 7.20 GT/s Intel® QPI)

Intel Xeon E5-2620. Processor family: Intel® Xeon® E5 Family, Processor socket: LGA 2011 (Socket R), Processor lithography: 32 nm. Memory channels: Quad-channel, Maximum internal memory supported by processor: 750 GB, Memory types supported by processor: DDR3-SDRAM. Market segment: Server, Supported instruction sets: AVX, Scalability: 2S. Package width: 44 mm, Package depth: 140 mm, Package height: 117 mm. Processor package size: 52.5mm x 45mm



| Processor | | Processor special features | |
|--|------------------------|--|---------|
| Processor manufacturer * | Intel | Intel® Hyper Threading Technology (Intel® HT Technology) | ✓ |
| Processor model * | E5-2620 | Intel® Identity Protection Technology (Intel® IPT) | ✗ |
| Processor base frequency * | 2 GHz | Intel® Turbo Boost Technology | 1.0 |
| Processor family * | Intel® Xeon® E5 Family | Intel Flex Memory Access | ✗ |
| Processor cores * | 6 | Intel® AES New Instructions (Intel® AES-NI) | ✓ |
| Processor socket * | LGA 2011 (Socket R) | Enhanced Intel SpeedStep Technology | ✓ |
| Component for | Server/workstation | Intel Trusted Execution Technology | ✓ |
| Processor lithography * | 32 nm | Intel Enhanced Halt State | ✓ |
| Processor series | Intel Xeon E5-2600 | Intel VT-x with Extended Page Tables (EPT) | ✓ |
| Processor threads | 12 | Intel Demand Based Switching | ✓ |
| System bus rate | 7.2 GT/s | Intel 64 | ✓ |
| Processor operating modes * | 64-bit | Intel Identity Protection Technology version | 0.00 |
| Processor boost frequency | 2.5 GHz | Intel Virtualization Technology (VT-x) | ✓ |
| Processor cache | 15 MB | Intel Virtualization Technology for Directed I/O (VT-d) | ✓ |
| Processor cache type | Smart Cache | Conflict-Free processor | ✗ |
| Thermal Design Power (TDP) | 95 W | Intel® vPro™ Platform Eligibility | ✓ |
| Box * | ✓ | Operational conditions | |
| Cooler included * | ✓ | Tcase | 77.4 °C |
| VID Voltage Range | 0.6 - 1.35 V | Technical details | |
| Stepping | C2 | Born on date | Q1'12 |
| Bus type | QPI | Bus bandwidth | 7.2 |
| CPU multiplier (bus/core ratio) | 25 | Bus type units | GT/s |
| Number of QPI links | 2 | Launch date | Q1'12 |
| Memory bandwidth supported by processor (max) | 42.6 GB/s | | |
| Processor codename | Sandy Bridge EP | | |
| Processor ARK ID | 64594 | | |
| Memory | | | |
| Maximum internal memory supported by processor | 750 GB | | |

| Memory | | Technical details | |
|--|-------------------|--|---|
| Memory types supported by processor | DDR3-SDRAM | Processor cache | 15360 KB |
| Memory clock speeds supported by processor | 800,1066,1333 MHz | Processor core voltage | 0.60-1.35 V |
| Memory channels * | Quad-channel | Product name | Intel Xeon E5-2620 (15M Cache, 2.00 GHz, 7.20 GT/s Intel QPI) |
| ECC | ✓ | Product type | Processor |
| Graphics | | Status | Discontinued |
| On-board graphics card * | ✗ | Maximum memory | 384 GB |
| Features | | Processor brand name | Intel Xeon |
| Execute Disable Bit | ✓ | Supported memory types | DDR3-SDRAM |
| Idle States | ✓ | Last change | 63903513 |
| Thermal Monitoring Technologies | ✓ | Product family | Intel Xeon Processor E5 Family |
| Market segment | Server | Bus speed | 7.2 GT/s |
| Maximum number of PCI Express lanes | 40 | Logistics data | |
| PCI Express slots version | 3.0 | Harmonized System (HS) code | 8542310001 |
| Supported instruction sets | AVX | Packaging data | |
| Scalability | 2S | Package width | 44 mm |
| CPU configuration (max) | 2 | Package depth | 140 mm |
| Embedded options available | ✓ | Package height | 117 mm |
| Graphics & IMC lithography | 32 nm | Package weight | 125 g |
| PCI Express CEM revision | 3.0 | Package type | Retail box |
| Export Control Classification Number (ECCN) | 5A992C | Weight & dimensions | |
| Commodity Classification Automated Tracking System (CCATS) | G077159 | Processor package size | 52.5mm x 45mm |
| Images Type Map | ✗ | Other features | |
| | | Intel® Virtualization Technology (Intel® VT) | VT-d, VT-x |
| | | Maximum internal memory | 384 GB |
| | | Maximum internal memory | 393216 MB |
| | | Cache memory | 15 MB |



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