

## Intel Xeon E5-2670V3 processor 2.3 GHz 30 MB Smart Cache Box

**Brand :** Intel

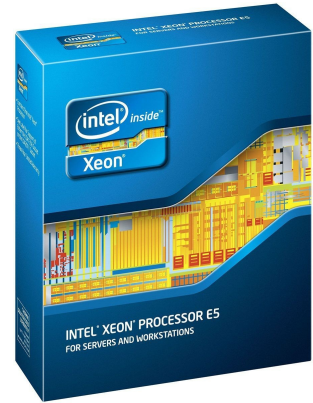
**Product family:** Xeon

**Product code:**  
BX80644E52670V3

**Product name :** E5-2670V3

Intel® Xeon® Processor E5-2670 v3  
(30M Cache, 2.30 GHz)

Intel Xeon E5-2670V3. Processor family: Intel Xeon E5 v3, Processor socket: LGA 2011-v3, Processor lithography: 22 nm. Memory channels: Quad-channel, Maximum internal memory supported by processor: 768 GB, Memory types supported by processor: DDR4-SDRAM. Market segment: Server, PCI Express configurations: x4, x8, x16, Supported instruction sets: AVX 2.0. Intel® Turbo Boost Technology 2.0 frequency: 3.1 GHz. Package type: Retail box



| Processor                                      |                       | Processor special features                              |         |
|--|-----------------------|---|---------|
| Processor manufacturer *                       | Intel                 | Intel® Identity Protection Technology (Intel® IPT)      | ✗       |
| Processor model *                              | E5-2670V3             | Intel® Turbo Boost Technology                           | 2.0     |
| Processor base frequency *                     | 2.3 GHz               | Intel Flex Memory Access                                | ✗       |
| Processor family *                             | Intel Xeon E5 v3      | Intel® Smart Cache                                      | ✓       |
| Processor cores *                              | 12                    | 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 *                        | 22 nm                 | Intel® Turbo Boost Technology 2.0 frequency             | 3.1 GHz |
| Processor series                               | Intel Xeon E5-2600 v3 | Intel® Transactional Synchronization Extensions         | ✗       |
| Processor threads                              | 24                    | Intel Enhanced Halt State                               | ✓       |
| System bus rate                                | 9.6 GT/s              | Intel VT-x with Extended Page Tables (EPT)              | ✓       |
| Processor operating modes *                    | 64-bit                | Intel Demand Based Switching                            | ✓       |
| Processor boost frequency                      | 3.1 GHz               | Intel® Secure Key                                       | ✓       |
| Processor cache                                | 30 MB                 | Intel TSX-NI  | ✗       |
| Processor cache type                           | Smart Cache           | Intel® OS Guard   | ✓       |
| L3 cache speed                                 | 2.3 GHz               | Intel 64  | ✓       |
| Thermal Design Power (TDP)                     | 120 W                 | Intel Identity Protection Technology version            | 0.00    |
| Box *  | ✓                     | Intel Secure Key Technology version                     | 1.00    |
| Cooler included *                              | ✓                     | Intel Virtualization Technology (VT-x)                  | ✓       |
| VID Voltage Range                              | 0.65 - 1.3 V          | Intel Virtualization Technology for Directed I/O (VT-d) | ✓       |
| Stepping                                       | M1                    | Intel TSX-NI version                                    | 0.00    |
| Bus type                                       | QPI                   | Conflict-Free processor                                 | ✗       |
| Number of QPI links                            | 2                     | Intel® vPro™ Platform Eligibility                       | ✓       |
| Memory bandwidth supported by processor (max)  | 68 GB/s               |   |         |
| Processor codename                             | Haswell               |   |         |
| Processor ARK ID                               | 81709                 |   |         |
| Memory   |                       | Operational conditions                                  |         |
| Maximum internal memory supported by processor | 768 GB                | Tcase   | 84.5 °C |
| Memory types supported by processor            | DDR4-SDRAM            |   |         |
| Memory clock speeds supported by processor     | 1600,1866,2133 MHz    | Technical details                                       |         |
| Memory channels *                              | Quad-channel          | Born on date  | Q3'14   |
| ECC  | ✓                     | Bus bandwidth   | 9.6     |
|  |                       | Bus type units  | GT/s    |
|  |                       | Launch date   | Q3'14   |

| Graphics   |               | Technical details                            |   |
|--|---------------|--|---|
| On-board graphics card *                                   | ✘             | Processor cache                              | 30720 KB                                    |
| Discrete graphics card *                                   | ✘             | Processor core voltage                       | 0.65-1.30                                   |
| On-board graphics card model *                             | Not available | Product name                                 | Intel Xeon E5-2670 v3 (30M Cache, 2.30 GHz) |
| Discrete graphics card model *                             | Not available | Product type                                 | Processor                                   |
| Features   |               | Status                                       | Discontinued                                |
| Execute Disable Bit  | ✓             | Maximum memory                               | 768 GB                                      |
| Idle States  | ✓             | Processor brand name                         | Intel Xeon v2                               |
| Thermal Monitoring Technologies                            | ✓             | Supported memory types                       | DDR4-SDRAM                                  |
| Market segment   | Server        | Last change                                  | 63903513                                    |
| Maximum number of PCI Express lanes                        | 40            | Product family                               | Intel Xeon Processor E5 v3 Family           |
| PCI Express slots version                                  | 3.0           | Bus speed                                    | 9.6 GT/s                                    |
| PCI Express configurations                                 | x4, x8, x16   | Logistics data                               |   |
| Supported instruction sets                                 | AVX 2.0       | Harmonized System (HS) code                  | 8542310001                                  |
| Scalability  | 2S            | Packaging data                               |   |
| CPU configuration (max)                                    | 2             | Package type                                 | Retail box                                  |
| Embedded options available                                 | ✘             | Weight & dimensions                          |   |
| Physical Address Extension (PAE)                           | 46 bit        | Processor package size                       | 52.5mm x 45mm                               |
| PCI Express CEM revision                                   | 3.0           | Other features                               |   |
| Export Control Classification Number (ECCN)                | 5A992C        | Intel® Virtualization Technology (Intel® VT) | VT-d, VT-x                                  |
| Commodity Classification Automated Tracking System (CCATS) | G077159       | Maximum internal memory                      | 768 GB                                      |
| Processor special features                                 |               | Maximum internal memory                      | 786432 MB                                   |
| Intel® Hyper Threading Technology (Intel® HT Technology)   | ✓             | Cache memory                                 | 30 MB                                       |



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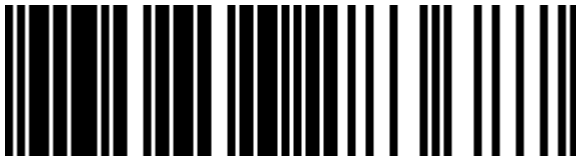
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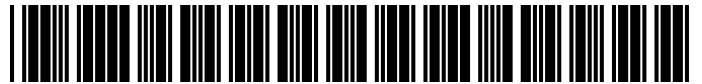
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