# HP Intel Xeon E5-2620 v3 processor 2.4 GHz 15 MB Smart Cache

**Brand :** HP

**Product code:** 790092-001

**Product name :** Intel Xeon E5-2620 v3
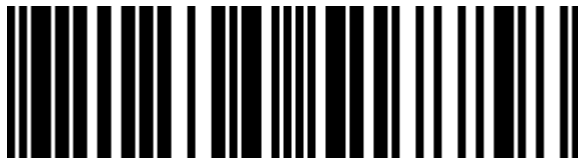
Intel Xeon E5-2620 v3, 15M Cache, 2.4 GHz, 8 GT/s QPI

HP Intel Xeon E5-2620 v3 processor 2.4 GHz 15 MB Smart Cache:

Options, accessories, services and support for all your HP and Compaq products.
HP Intel Xeon E5-2620 v3. 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, Supported instruction sets: AVX 2.0, Scalability: 2S. Compatibility: Z640 ZC2.4

## Processor

| | |
|---|---|
| Processor model * | E5-2620V3 |
| Processor base frequency * | 2.4 GHz |
| Processor family * | Intel Xeon E5 v3 |
| Processor cores * | 6 |
| Processor socket * | LGA 2011-v3 |
| Component for | Server/workstation |
| Processor lithography * | 22 nm |
| Processor series | Intel Xeon E5-2600 v3 |
| Processor threads | 12 |
| System bus rate | 8 GT/s |
| Processor operating modes * | 64-bit |
| Processor boost frequency | 3.2 GHz |
| Processor cache | 15 MB |
| Processor cache type | Smart Cache |
| Thermal Design Power (TDP) | 85 W |
| VID Voltage Range | 0.65 - 1.3 V |
| Stepping | R2 |
| Bus type | QPI |
| Number of QPI links | 2 |
| Memory bandwidth supported by processor (max) | 59 GB/s |

## Memory

| | |
|---|---|
| Maximum internal memory supported by processor | 768 GB |
| Memory types supported by processor | DDR4-SDRAM |
| Memory clock speeds supported by processor | 1600,1866 MHz |
| Memory channels * | Quad-channel |
| ECC | ✔ |

## Graphics

| | |
|---|---|
| On-board graphics card * | ✘ |

## Features

| | |
|---|---|
| Execute Disable Bit | ✔ |
| Idle States | ✔ |
| Thermal Monitoring Technologies | ✔ |
| Market segment | Server |
| Maximum number of PCI Express lanes | 40 |

## Features

| | |
|---|---|
| PCI Express slots version | 3.0 |
| Supported instruction sets | AVX 2.0 |
| Scalability | 2S |
| Physical Address Extension (PAE) | ✔ |
| CPU configuration (max) | 2 |
| Embedded options available | ✔ |
| Physical Address Extension (PAE) | 46 bit |

## Processor special features

| | |
|---|---|
| Intel® Hyper Threading Technology (Intel® HT Technology) | ✔ |
| Intel® Identity Protection Technology (Intel® IPT) | ✘ |
| Intel® Turbo Boost Technology | 2.0 |
| Intel Flex Memory Access | ✘ |
| Intel® AES New Instructions (Intel® AES-NI) | ✔ |
| Enhanced Intel SpeedStep Technology | ✔ |
| Intel Trusted Execution Technology | ✔ |
| Intel VT-x with Extended Page Tables (EPT) | ✔ |
| Intel Demand Based Switching | ✔ |
| Intel® Secure Key | ✔ |
| Intel TSX-NI | ✘ |
| Intel® OS Guard | ✔ |
| Intel 64 | ✔ |
| Intel Virtualization Technology (VT-x) | ✔ |
| Intel Virtualization Technology for Directed I/O (VT-d) | ✔ |
| Conflict-Free processor | ✔ |
| Intel® vPro™ Platform Eligibility | ✔ |

## Operational conditions

| | |
|---|---|
| Tcase | 72.6 °C |

## Other features

| | |
|---|---|
| Compatibility | Z640 ZC2.4 |

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