



HP Intel Xeon E5-2637 v2 processor 3.5 GHz 15 MB L3



Brand : HP

Product code: 733616-001

Product name : Intel Xeon E5-2637 v2

Intel Xeon E5-2637 v2, 3.5 GHz (3.8 GHz Turbo), 15 MB Cache, 8 GT/s, 22 nm

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| Processor | | Features | |
|--|-----------------------------|--|------------|
| Processor model * | E5-2637V2 | Maximum number of PCI Express lanes | 40 |
| Processor base frequency * | 3.5 GHz | PCI Express slots version | 3.0 |
| Processor family * | Intel® Xeon® E5 V2 Family | Scalability | 2S |
| Processor cores * | 4 | Embedded options available | ✗ |
| Processor socket * | LGA 2011 (Socket R) | Processor special features | |
| Component for | Server/workstation | Intel® Hyper Threading Technology (Intel® HT Technology) | ✓ |
| Processor lithography * | 22 nm | Intel® Identity Protection Technology (Intel® IPT) | ✗ |
| Processor threads | 8 | Intel® Turbo Boost Technology | 2.0 |
| System bus rate | 8 GT/s | Intel Flex Memory Access | ✗ |
| Processor operating modes * | 64-bit | Intel® Smart Cache | ✓ |
| Processor boost frequency | 3.8 GHz | Intel® AES New Instructions (Intel® AES-NI) | ✓ |
| Processor cache | 15 MB | Enhanced Intel SpeedStep Technology | ✓ |
| Processor cache type | L3 | Intel Trusted Execution Technology | ✓ |
| Thermal Design Power (TDP) | 130 W | Intel VT-x with Extended Page Tables (EPT) | ✓ |
| VID Voltage Range | 0.65 - 1.30 V | Intel Demand Based Switching | ✓ |
| Bus type | QPI | Intel® Secure Key | ✓ |
| Number of QPI links | 2 | Intel TSX-NI | ✗ |
| Memory bandwidth supported by processor (max) | 59.7 GB/s | Intel Virtualization Technology (VT-x) | ✓ |
| Memory | | Intel Virtualization Technology for Directed I/O (VT-d) | ✓ |
| Maximum internal memory supported by processor | 768 GB | Intel® vPro™ Platform Eligibility | ✓ |
| Memory types supported by processor | DDR3-SDRAM | Operational conditions | |
| Memory clock speeds supported by processor | 800,1066,1333,1600,1866 MHz | Tcase | 76 °C |
| Memory channels * | Quad-channel | Packaging data | |
| ECC | ✓ | Package width | 52.5 mm |
| Graphics | | Package depth | 45 mm |
| On-board graphics card * | ✗ | Other features | |
| Features | | Intel® Virtualization Technology (Intel® VT) | VT-d, VT-x |
| Execute Disable Bit | ✓ | | |
| Idle States | ✓ | | |
| Thermal Monitoring Technologies | ✓ | | |
| Market segment | Server | | |

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