



HP Intel Xeon E5-1603 processor 2.8 GHz 10 MB L3

Brand : HP

Product code: 683608-001

Product name : Intel Xeon E5-1603



Intel Xeon E5-1603, 2.8 GHz, 10 Mb Cache, 32 nm, 130 W

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HP Intel Xeon E5-1603. 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: 375 GB, Memory types supported by processor: DDR3-SDRAM. Market segment: Server. Package width: 52.5 mm, Package depth: 45 mm. Intel® Virtualization Technology (Intel® VT): VT-d, VT-x

| Processor | | Features | |
|--|------------------------|--|------------|
| Processor model * | E5-1603 | Market segment | Server |
| Processor base frequency * | 2.8 GHz | Maximum number of PCI Express lanes | 40 |
| Processor family * | Intel® Xeon® E5 Family | PCI Express slots version | 3.0 |
| Processor cores * | 4 | Processor special features | |
| Processor socket * | LGA 2011 (Socket R) | Intel® Hyper Threading Technology (Intel® HT Technology) | ✗ |
| Component for | Server/workstation | Intel® Turbo Boost Technology | ✗ |
| Processor lithography * | 32 nm | Intel Flex Memory Access | ✓ |
| Processor threads | 4 | Intel® AES New Instructions (Intel® AES-NI) | ✓ |
| System bus rate | 0 GT/s | Enhanced Intel SpeedStep Technology | ✓ |
| Processor operating modes * | 64-bit | Intel Trusted Execution Technology | ✓ |
| Processor cache | 10 MB | Intel VT-x with Extended Page Tables (EPT) | ✓ |
| Processor cache type | L3 | Intel Demand Based Switching | ✓ |
| Thermal Design Power (TDP) | 130 W | Intel Virtualization Technology (VT-x) | ✓ |
| VID Voltage Range | 0.60 - 1.35 V | Intel Virtualization Technology for Directed I/O (VT-d) | ✓ |
| Bus type | QPI | Intel® vPro™ Platform Eligibility | ✓ |
| Memory bandwidth supported by processor (max) | 31.4 GB/s | Operational conditions | |
| Memory | | Tcase | 64 °C |
| Maximum internal memory supported by processor | 375 GB | Packaging data | |
| Memory types supported by processor | DDR3-SDRAM | Package width | 52.5 mm |
| Memory clock speeds supported by processor | 800,1066 MHz | Package depth | 45 mm |
| Memory channels * | Quad-channel | Other features | |
| ECC | ✓ | Intel® Virtualization Technology (Intel® VT) | VT-d, VT-x |
| Graphics | | | |
| On-board graphics card * | ✗ | | |
| Features | | | |
| Execute Disable Bit | ✓ | | |
| Idle States | ✓ | | |
| Thermal Monitoring Technologies | ✓ | | |

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