



HP Z820 Xeon E5-2680 8C 2.70GHz 20MB processor 2.7 GHz L3

Brand : HP

Product code: A6S96AA

Product name : Z820 Xeon E5-2680 8C 2.70GHz 20MB

HP Z820 Xeon E5-2680 8 Core 2.70GHz 20MB cache 1600MHz 2nd CPU
HP Z820 Xeon E5-2680 8C 2.70GHz 20MB. 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, Scalability: S2S. Intel® Virtualization Technology (Intel® VT): VT-d, VT-x, Compatibility: HP Z820



| Processor | | Features | |
|--|------------------------|--|--------|
| Processor model * | E5-2680 | Thermal Monitoring Technologies | ✓ |
| Processor base frequency * | 2.7 GHz | Market segment | Server |
| Processor family * | Intel® Xeon® E5 Family | Maximum number of PCI Express lanes | 40 |
| Processor cores * | 8 | PCI Express slots version | 3.0 |
| Processor socket * | LGA 2011 (Socket R) | Scalability | S2S |
| Component for | Server/workstation | CPU configuration (max) | 2 |
| Processor lithography * | 32 nm | Embedded options available | ✗ |
| Processor threads | 16 | Processor special features | |
| System bus rate | 8 GT/s | Intel® Hyper Threading Technology (Intel® HT Technology) | ✓ |
| Processor operating modes * | 64-bit | Intel® Turbo Boost Technology | ✓ |
| Processor boost frequency | 3.5 GHz | Intel Flex Memory Access | ✓ |
| Processor cache | 20 MB | Intel® AES New Instructions (Intel® AES-NI) | ✓ |
| Processor cache type | L3 | Enhanced Intel SpeedStep Technology | ✓ |
| Processor front side bus | 1600 MHz | Intel Trusted Execution Technology | ✓ |
| Thermal Design Power (TDP) | 130 W | Intel VT-x with Extended Page Tables (EPT) | ✓ |
| VID Voltage Range | 0.6 - 1.35 V | Intel Demand Based Switching | ✓ |
| Bus type | QPI | Intel Virtualization Technology (VT-x) | ✓ |
| CPU multiplier (bus/core ratio) | 35 | Intel Virtualization Technology for Directed I/O (VT-d) | ✓ |
| Number of QPI links | 2 | Intel® vPro™ Platform Eligibility | ✓ |
| Memory bandwidth supported by processor (max) | 51.2 GB/s | Operational conditions | |
| Memory | | Tcase | 85 °C |
| Maximum internal memory supported by processor | 750 GB | | |
| Memory types supported by processor | DDR3-SDRAM | | |
| Memory clock speeds supported by processor | 800,1066,1333,1600 MHz | | |
| Memory channels * | Quad-channel | | |
| ECC | ✓ | | |

| Graphics | | Other features | |
|--------------------------|---|--|------------|
| On-board graphics card * | ✘ | Intel® Virtualization Technology (Intel® VT) | VT-d, VT-x |
| Features | | Compatibility | HP Z820 |
| Execute Disable Bit | ✔ | | |
| Idle States | ✔ | | |



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