



# HP Xeon E5-2670 v2 10C 2.5GHz processor 25 MB L3

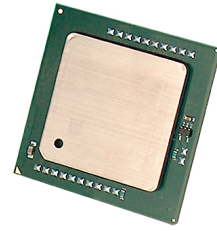
Brand : HP

Product code: E2Q45AV

Product name : Xeon E5-2670 v2 10C 2.5GHz

Intel Xeon Processor E5-2670 v2 (25M Cache, 2.50 GHz)

HP Xeon E5-2670 v2 10C 2.5GHz. Processor family: Intel® Xeon® E5 V2 Family, Processor socket: LGA 2011 (Socket R), Processor lithography: 22 nm. Memory channels: Quad-channel, Maximum internal memory supported by processor: 768 GB, Memory types supported by processor: DDR3-SDRAM. Market segment: Server, Supported instruction sets: AVX, Scalability: 2S. Intel® Virtualization Technology (Intel® VT): VT-d, VT-x



| Processor                                      |                             | Features   |            |
|--|-----------------------------|--|------------|
| Processor model *                              | E5-2670V2                   | Maximum number of PCI Express lanes                      | 40         |
| Processor base frequency *                     | 2.5 GHz                     | PCI Express slots version                                | 3.0        |
| Processor family *                             | Intel® Xeon® E5 V2 Family   | Supported instruction sets                               | AVX        |
| Processor cores *                              | 10                          | Scalability  | 2S         |
| Processor socket *                             | LGA 2011 (Socket R)         | Physical Address Extension (PAE)                         | ✓          |
| Component for                                  | Server/workstation          | Embedded options available                               | ✗          |
| Processor lithography *                        | 22 nm                       | <b>Processor special features</b>                        |            |
| Processor threads                              | 20                          | Intel® Hyper Threading Technology (Intel® HT Technology) | ✓          |
| System bus rate                                | 8 GT/s                      | Intel® Identity Protection Technology (Intel® IPT)       | ✗          |
| Processor operating modes *                    | 64-bit                      | Intel® Turbo Boost Technology                            | ✓          |
| Processor boost frequency                      | 3.3 GHz                     | Intel Flex Memory Access                                 | ✗          |
| Processor cache                                | 25 MB                       | Intel® AES New Instructions (Intel® AES-NI)              | ✓          |
| Processor cache type                           | L3                          | Enhanced Intel SpeedStep Technology                      | ✓          |
| Thermal Design Power (TDP)                     | 115 W                       | Intel Trusted Execution Technology                       | ✓          |
| VID Voltage Range                              | 0.6 - 1.30 V                | Intel VT-x with Extended Page Tables (EPT)               | ✓          |
| Bus type                                       | QPI                         | Intel Demand Based Switching                             | ✓          |
| Number of QPI links                            | 2                           | Intel® Secure Key  | ✓          |
| Memory bandwidth supported by processor (max)  | 59.7 GB/s                   | Intel Virtualization Technology (VT-x)                   | ✓          |
| <b>Memory</b>                                  |                             | 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                  | <b>Operational conditions</b>                            |            |
| Memory clock speeds supported by processor     | 800,1066,1333,1600,1866 MHz | Tcase  | 82 °C      |
| Memory channels *                              | Quad-channel                | <b>Other features</b>                                    |            |
| ECC  | ✓                           | Intel® Virtualization Technology (Intel® VT)             | VT-d, VT-x |
| <b>Graphics</b>                                |                             |  |            |
| On-board graphics card *                       | ✗                           |  |            |
| <b>Features</b>                                |                             |  |            |
| Execute Disable Bit                            | ✓                           |  |            |
| Idle States                                    | ✓                           |  |            |
| Thermal Monitoring Technologies                | ✓                           |  |            |
| Market segment                                 | Server                      |  |            |

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