



# HP Intel Xeon E5-2650 V3 processor 2.3 GHz 25 MB L3

Brand : HP

Product code: J6F33AV

Product name : Intel Xeon E5-2650 V3

Intel Xeon E5-2650 V3 (25M Cache, 2.30 GHz) 10-core

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## Intel Virtualization Technology (VT-x)

Intel Virtualization Technology (VT-x) allows one hardware platform to function as multiple “virtual” platforms. It offers improved manageability by limiting downtime and maintaining productivity by isolating computing activities into separate partitions.



## Intel 64

Intel 64 architecture delivers 64-bit computing on server, workstation, desktop and mobile platforms when combined with supporting software. Intel 64 architecture improves performance by allowing systems to address more than 4 GB of both virtual and physical memory.

| Processor                                      |                    | Features   |              |
|--|--------------------|--|--------------|
| Processor model *                              | E5-2650LV3         | PCI Express slots version                                | 3.0          |
| Processor base frequency *                     | 2.3 GHz            | Supported instruction sets                               | AES, AVX 2.0 |
| Processor family *                             | Intel Xeon E5 v3   | Scalability  | 2S           |
| Processor cores *                              | 10                 | CPU configuration (max)                                  | 2            |
| Processor socket *                             | LGA 2011-v3        | Embedded options available                               | ✗            |
| Component for                                  | Server/workstation | <b>Processor special features</b>                        |              |
| Processor lithography *                        | 22 nm              | Intel® Hyper Threading Technology (Intel® HT Technology) | ✓            |
| Processor threads                              | 20                 | Intel® Identity Protection Technology (Intel® IPT)       | ✗            |
| System bus rate                                | 9.6 GT/s           | Intel® Turbo Boost Technology                            | 2.0          |
| Processor operating modes *                    | 32-bit, 64-bit     | Intel Flex Memory Access                                 | ✗            |
| Processor boost frequency                      | 3 GHz              | Intel® AES New Instructions (Intel® AES-NI)              | ✓            |
| Processor cache                                | 25 MB              | Enhanced Intel SpeedStep Technology                      | ✓            |
| Processor cache type                           | L3                 | Intel Trusted Execution Technology                       | ✓            |
| Thermal Design Power (TDP)                     | 105 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)  | 68 GB/s            | Intel® OS Guard  | ✓            |
| <b>Memory</b>                                  |                    | Intel Virtualization Technology (VT-x)                   | ✓            |
| Maximum internal memory supported by processor | 768 GB             | Intel Virtualization Technology for Directed I/O (VT-d)  | ✓            |
| Memory types supported by processor            | DDR4-SDRAM         | Intel® vPro™ Platform Eligibility                        | ✓            |
| Memory clock speeds supported by processor     | 1600,1866,2133 MHz | <b>Operational conditions</b>                            |              |
| Memory channels *                              | Quad-channel       | Tcase  | 78.9 °C      |
| ECC  | ✓                  | <b>Other features</b>                                    |              |
| <b>Graphics</b>                                |                    | Intel® Virtualization Technology (Intel® VT)             | VT-d, VT-x   |
| On-board graphics card *                       | ✗                  |  |              |
| <b>Features</b>                                |                    |  |              |
| Execute Disable Bit                            | ✓                  |  |              |
| Idle States                                    | ✓                  |  |              |
| Thermal Monitoring Technologies                | ✓                  |  |              |
| Market segment                                 | Server             |  |              |

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