



## Fujitsu Xeon E5-2650 v4 12C/24T 2.20 GHz processor 2.2 GHz 30 MB Smart Cache



**Brand :** Fujitsu

**Product family:** Xeon

**Product code:** S26361-F3933-L450

**Product name :** Xeon E5-2650 v4 12C/24T 2.20 GHz

Intel Xeon E5-2650 v4 (30M Cache, 2.20 GHz)

Fujitsu Xeon E5-2650 v4 12C/24T 2.20 GHz processor 2.2 GHz 30 MB Smart Cache:

Intel® Turbo Boost Technology dynamically increases the processor's frequency as needed by taking advantage of thermal and power headroom to give you a burst of speed when you need it, and increased energy efficiency when you don't.



Intel® vPro™ Technology is a set of security and manageability capabilities built into the processor aimed at addressing four critical areas of IT security: 1) Threat management, including protection from rootkits, viruses, and malware 2) Identity and web site access point protection 3) Confidential personal and business data protection 4) Remote and local monitoring, remediation, and repair of PCs and workstations.

Intel® Hyper-Threading Technology (Intel® HT Technology) delivers two processing threads per physical core. Highly threaded applications can get more work done in parallel, completing tasks sooner.

| Processor                                      |                         | Features   |                |
|--|-------------------------|--|----------------|
| Processor model *                              | E5-2650V4               | PCI Express slots version                                | 3.0            |
| Processor base frequency *                     | 2.2 GHz                 | PCI Express configurations                               | 1x16, 1x4, 1x8 |
| Processor family *                             | Intel® Xeon® E5 v4      | Supported instruction sets                               | AVX 2.0        |
| Processor cores *                              | 12                      | Scalability  | 2S             |
| Processor socket *                             | LGA 2011-v3             | Physical Address Extension (PAE)                         | ✓              |
| Component for                                  | Server/workstation      | CPU configuration (max)                                  | 2              |
| Processor lithography *                        | 14 nm                   | Embedded options available                               | ✗              |
| Processor series                               | Intel Xeon E5-2600 v4   | Physical Address Extension (PAE)                         | 46 bit         |
| Processor threads                              | 24                      | <b>Processor special features</b>                        |                |
| System bus rate                                | 9.6 GT/s                | Intel® Hyper Threading Technology (Intel® HT Technology) | ✓              |
| Processor operating modes *                    | 32-bit, 64-bit          | Intel® Identity Protection Technology (Intel® IPT)       | ✗              |
| Processor boost frequency                      | 2.9 GHz                 | Intel® Turbo Boost Technology                            | 2.0            |
| Processor cache                                | 30 MB                   | Intel Flex Memory Access                                 | ✗              |
| Processor cache type                           | Smart Cache             | Intel® AES New Instructions (Intel® AES-NI)              | ✓              |
| Thermal Design Power (TDP)                     | 105 W                   | Enhanced Intel SpeedStep Technology                      | ✓              |
| Box *  | ✗                       | Intel Trusted Execution Technology                       | ✓              |
| Number of QPI links                            | 2                       | Intel Demand Based Switching                             | ✓              |
| Memory bandwidth supported by processor (max)  | 76.8 GB/s               | Intel® Secure Key  | ✓              |
| Processor codename                             | Broadwell               | Intel TSX-NI   | ✓              |
| <b>Memory</b>                                  |                         | Intel® OS Guard  | ✓              |
| Maximum internal memory supported by processor | 1.54 TB                 | Intel 64   | ✓              |
| Memory types supported by processor            | DDR4-SDRAM              | Intel Virtualization Technology (VT-x)                   | ✓              |
| Memory clock speeds supported by processor     | 1600,1866,2133,2400 MHz | Intel Virtualization Technology for Directed I/O (VT-d)  | ✓              |
| Memory channels *                              | Quad-channel            | Conflict-Free processor                                  | ✓              |
| ECC  | ✓                       | Intel® vPro™ Platform Eligibility                        | ✓              |
| <b>Graphics</b>                                |                         | <b>Operational conditions</b>                            |                |
| On-board graphics card *                       | ✗                       | Tcase  | 80 °C          |
| <b>Features</b>                                |                         |  |                |
| Execute Disable Bit                            | ✓                       |  |                |
| Idle States                                    | ✓                       |  |                |

| Features                            |        | Weight & dimensions    |              |
|-------------------------------------|--------|------------------------|--------------|
| Thermal Monitoring Technologies     | ✓      | Processor package size | 52.5 x 51 mm |
| Market segment                      | Server |                        |              |
| Maximum number of PCI Express lanes | 40     |                        |              |

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