



## Lenovo Intel Xeon E5-2650 v4 processor 2.2 GHz 30 MB Smart Cache

**Brand :** Lenovo

**Product code:** 00YE720

**Product name :** Intel Xeon E5-2650 v4

Intel Xeon E5-2650 v4, 30M Cache, 2.2 GHz, 9.6 GT/s QPI, Factory Integrated

Lenovo Intel Xeon E5-2650 v4. Processor family: Intel® Xeon® E5 v4, Processor socket: LGA 2011-v3, Processor lithography: 14 nm. Memory channels: Quad-channel, Maximum internal memory supported by processor: 1.53 TB, Memory types supported by processor: DDR4-SDRAM. Market segment: Server, Supported instruction sets: AVX 2.0, Scalability: 2S. Compatibility: HPE DL160 Gen9

| Processor                                      |                         | Features                                                 |                |
|------------------------------------------------|-------------------------|----------------------------------------------------------|----------------|
| Processor model *                              | E5-2650V4               | Supported instruction sets                               | AVX 2.0        |
| Processor base frequency *                     | 2.2 GHz                 | Scalability                                              | 2S             |
| Processor family *                             | Intel® Xeon® E5 v4      | Physical Address Extension (PAE)                         | ✓              |
| Processor cores *                              | 12                      | CPU configuration (max)                                  | 2              |
| Processor socket *                             | LGA 2011-v3             | Embedded options available                               | ✓              |
| Component for                                  | Server/workstation      | Physical Address Extension (PAE)                         | 46 bit         |
| Processor lithography *                        | 14 nm                   | <b>Processor special features</b>                        |                |
| Processor series                               | Intel Xeon E5-2600 v4   | Intel® Hyper Threading Technology (Intel® HT Technology) | ✓              |
| Processor threads                              | 24                      | Intel® Identity Protection Technology (Intel® IPT)       | ✗              |
| System bus rate                                | 9.6 GT/s                | Intel® Turbo Boost Technology                            | 2.0            |
| Processor operating modes *                    | 64-bit                  | Intel Flex Memory Access                                 | ✗              |
| Processor boost frequency                      | 2.9 GHz                 | Intel® AES New Instructions (Intel® AES-NI)              | ✓              |
| Processor cache                                | 30 MB                   | Enhanced Intel SpeedStep Technology                      | ✓              |
| Processor cache type                           | Smart Cache             | Intel Trusted Execution Technology                       | ✓              |
| Thermal Design Power (TDP)                     | 105 W                   | Intel VT-x with Extended Page Tables (EPT)               | ✓              |
| Stepping                                       | M0                      | Intel Demand Based Switching                             | ✓              |
| Bus type                                       | QPI                     | Intel® Secure Key                                        | ✓              |
| Number of QPI links                            | 2                       | Intel TSX-NI                                             | ✓              |
| Memory bandwidth supported by processor (max)  | 76.8 GB/s               | Intel® OS Guard                                          | ✓              |
| <b>Memory</b>                                  |                         | Intel 64                                                 | ✓              |
| Maximum internal memory supported by processor | 1.53 TB                 | Intel Virtualization Technology (VT-x)                   | ✓              |
| Memory types supported by processor            | DDR4-SDRAM              | Intel Virtualization Technology for Directed I/O (VT-d)  | ✓              |
| Memory clock speeds supported by processor     | 1600,1866,2133,2400 MHz | Conflict-Free processor                                  | ✓              |
| Memory channels *                              | Quad-channel            | Intel® vPro™ Platform Eligibility                        | ✓              |
| ECC                                            | ✓                       | <b>Operational conditions</b>                            |                |
| <b>Graphics</b>                                |                         | Tcase                                                    | 80 °C          |
| On-board graphics card *                       | ✗                       | <b>Other features</b>                                    |                |
| <b>Features</b>                                |                         | Compatibility                                            | HPE DL160 Gen9 |
| Execute Disable Bit                            | ✓                       |                                                          |                |
| Idle States                                    | ✓                       |                                                          |                |
| Thermal Monitoring Technologies                | ✓                       |                                                          |                |
| Market segment                                 | Server                  |                                                          |                |
| Maximum number of PCI Express lanes            | 40                      |                                                          |                |
| PCI Express slots version                      | 3.0                     |                                                          |                |

## Catalog Object Cloud



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