

## Intel Xeon E-2378 processor 2.6 GHz 16 MB Smart Cache

**Brand :** Intel

**Product family:** Xeon

**Product code:**  
CM8070804495612

**Product name :** Intel® Xeon®  
E-2378 Processor (16M Cache,  
2.60 GHz)



Intel Xeon E2378 Processor 16M Cache 2.60 GHz

Intel Xeon E-2378. Processor family: Intel Xeon E, Processor socket: LGA 1200 (Socket H5), Processor lithography: 14 nm. Memory channels: Dual-channel, Maximum internal memory supported by processor: 128 GB, Memory types supported by processor: DDR4-SDRAM. Market segment: Server, PCI Express configurations: 1x16+1x4, 2x8+1x4, 1x8+3x4, Supported instruction sets: SSE4.1, SSE4.2, AVX 2.0, AVX-512. Intel® Turbo Boost Technology 2.0 frequency: 4.8 GHz, Maximum Enclave Size Support for Intel® SGX: 0.5 GB. Processor package size: 37.5 x 37.5 mm

| Processor                                      |                                  | Processor special features                               |                    |
|--|----------------------------------|--|--------------------|
| Processor manufacturer *                       | Intel                            | Intel® Hyper Threading Technology (Intel® HT Technology) | ✓                  |
| Processor model *                              | E-2378                           | Intel® Turbo Boost Technology                            | 2.0                |
| Processor base frequency *                     | 2.6 GHz                          | Intel® AES New Instructions (Intel® AES-NI)              | ✓                  |
| Processor family *                             | Intel Xeon E                     | Enhanced Intel SpeedStep Technology                      | ✓                  |
| Processor cores *                              | 8                                | Intel Trusted Execution Technology                       | ✓                  |
| Processor socket *                             | LGA 1200 (Socket H5)             | Intel® Memory Protection Extensions (Intel® MPX)         | ✓                  |
| Component for                                  | Server/workstation               | Intel® Turbo Boost Technology 2.0 frequency              | 4.8 GHz            |
| Processor lithography *                        | 14 nm                            | Intel® Transactional Synchronization Extensions          | ✗                  |
| Processor threads                              | 16                               | Maximum Enclave Size Support for Intel® SGX              | 0.5 GB             |
| System bus rate                                | 8 GT/s                           | Intel VT-x with Extended Page Tables (EPT)               | ✓                  |
| Processor operating modes *                    | 64-bit                           | Intel® Secure Key  | ✓                  |
| Processor boost frequency                      | 4.8 GHz                          | Intel® OS Guard  | ✓                  |
| Processor cache                                | 16 MB                            | Intel Software Guard Extensions (Intel SGX)              | ✓                  |
| Processor cache type                           | Smart Cache                      | Intel 64   | ✓                  |
| Thermal Design Power (TDP)                     | 65 W                             | Intel Virtualization Technology (VT-x)                   | ✓                  |
| Box *  | ✗                                | Intel Virtualization Technology for Directed I/O (VT-d)  | ✓                  |
| Cooler included *                              | ✗                                | Intel® Boot Guard  | ✓                  |
| Processor ARK ID                               | 212261                           | Intel® Optane™ DC Persistent Memory Supported            | ✗                  |
|  |                                  | Intel® vPro™ Platform Eligibility                        | ✓                  |
| Memory   |                                  | Operational conditions                                   |                    |
| Maximum internal memory supported by processor | 128 GB                           | Tjunction  | 100 °C             |
| Memory types supported by processor            | DDR4-SDRAM                       | Technical details  |                    |
| Memory channels *                              | Dual-channel                     | Launch date  | Q3'21              |
| ECC  | ✓                                | Status   | Launched           |
| Graphics                                       |                                  | Supported memory types                                   | DDR4-SDRAM         |
| On-board graphics card *                       | ✗                                | Servicing status   | Baseline Servicing |
| Discrete graphics card *                       | ✗                                | Logistics data   |                    |
| Discrete graphics card model *                 | Not available                    | Harmonized System (HS) code                              | 85423119           |
| Features                                       |                                  |  |                    |
| Execute Disable Bit                            | ✓                                |  |                    |
| Idle States                                    | ✓                                |  |                    |
| Thermal Monitoring Technologies                | ✓                                |  |                    |
| Market segment                                 | Server                           |  |                    |
| Maximum number of PCI Express lanes            | 20                               |  |                    |
| PCI Express slots version                      | 4.0                              |  |                    |
| PCI Express configurations                     | 1x16+1x4, 2x8+1x4, 1x8+3x4       |  |                    |
| Supported instruction sets                     | SSE4.1, SSE4.2, AVX 2.0, AVX-512 |  |                    |

| Features   |          | Weight & dimensions     |                |
|--|----------|-------------------------|----------------|
| Scalability  | 1S       | Processor package size  | 37.5 x 37.5 mm |
| CPU configuration (max)                                    | 1        | <b>Other features</b>   |                |
| Export Control Classification Number (ECCN)                | 5A992CN3 | Maximum internal memory | 128 GB         |
| Commodity Classification Automated Tracking System (CCATS) | G167599  |                         |                |



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