

## Intel Xeon E5-2640 processor 2.5 GHz 15 MB Smart Cache

**Brand :** Intel

**Product family:** Xeon

**Product code:**  
CM8062100856401

**Product name :** E5-2640


Intel® Xeon® Processor E5-2640

(15M Cache, 2.50 GHz, 7.20 GT/s Intel® QPI)

Intel Xeon E5-2640. Processor family: Intel® Xeon® E5 Family, Processor socket: LGA 2011 (Socket R), Processor lithography: 32 nm. Memory channels: Quad-channel, Maximum internal memory supported by processor: 750 GB, Memory types supported by processor: DDR3-SDRAM. Market segment: Server, Supported instruction sets: AVX, Scalability: 2S. Package type: Retail box. Processor package size: 52.5mm x 45mm



| Processor                                      |                        | Processor special features                               |                                |
|--|------------------------|--|--------------------------------|
| Processor manufacturer *                       | Intel                  | Intel® Hyper Threading Technology (Intel® HT Technology) | ✓                              |
| Processor model *                              | E5-2640                | Intel® Identity Protection Technology (Intel® IPT)       | ✗                              |
| Processor base frequency *                     | 2.5 GHz                | Intel® Turbo Boost Technology                            | 1.0                            |
| Processor family *                             | Intel® Xeon® E5 Family | Intel Flex Memory Access                                 | ✗                              |
| Processor cores *                              | 6                      | Intel® AES New Instructions (Intel® AES-NI)              | ✓                              |
| Processor socket *                             | LGA 2011 (Socket R)    | Enhanced Intel SpeedStep Technology                      | ✓                              |
| Component for                                  | Server/workstation     | Intel Trusted Execution Technology                       | ✓                              |
| Processor lithography *                        | 32 nm                  | Intel Enhanced Halt State                                | ✓                              |
| Processor series                               | Intel Xeon E5-2600     | Intel VT-x with Extended Page Tables (EPT)               | ✓                              |
| Processor threads                              | 12                     | Intel Demand Based Switching                             | ✓                              |
| System bus rate                                | 7.2 GT/s               | Intel 64   | ✓                              |
| Processor operating modes *                    | 64-bit                 | Intel Identity Protection Technology version             | 0.00                           |
| Processor boost frequency                      | 3 GHz                  | Intel Virtualization Technology (VT-x)                   | ✓                              |
| Processor cache                                | 15 MB                  | Intel Virtualization Technology for Directed I/O (VT-d)  | ✓                              |
| Processor cache type                           | Smart Cache            | Conflict-Free processor                                  | ✗                              |
| Thermal Design Power (TDP)                     | 95 W                   | Intel® vPro™ Platform Eligibility                        | ✓                              |
| Box *  | ✗                      | <b>Operational conditions</b>                            |                                |
| Cooler included *                              | ✗                      | Maximum operating temperature                            | 77.4 °C                        |
| VID Voltage Range                              | 0.6 - 1.35 V           | Tcase  | 73 °C                          |
| Bus type                                       | QPI                    | <b>Technical details</b>                                 |                                |
| CPU multiplier (bus/core ratio)                | 30                     | Bus bandwidth  | 7.2                            |
| Number of QPI links                            | 2                      | Bus type units   | GT/s                           |
| Memory bandwidth supported by processor (max)  | 42.6 GB/s              | Launch date  | Q1'12                          |
| Processor ARK ID                               | 64591                  | Processor cache  | 15360 KB                       |
| <b>Memory</b>                                  |                        | Product type   | Processor                      |
| Maximum internal memory supported by processor | 750 GB                 | Status   | Discontinued                   |
| Memory types supported by processor            | DDR3-SDRAM             | Maximum memory   | 384 GB                         |
| Memory clock speeds supported by processor     | 800,1066,1333 MHz      | Processor brand name                                     | Intel Xeon                     |
| Memory channels *                              | Quad-channel           | Supported memory types                                   | DDR3-SDRAM                     |
| ECC  | ✓                      | Last change  | 63903513                       |
| <b>Features</b>                                |                        | Product family   | Intel Xeon Processor E5 Family |
| Execute Disable Bit                            | ✓                      | Bus speed  | 7.2 GT/s                       |
| Idle States                                    | ✓                      | <b>Logistics data</b>                                    |                                |
| Thermal Monitoring Technologies                | ✓                      | Harmonized System (HS) code                              | 8542310001                     |
| Market segment                                 | Server                 |  |                                |
| Maximum number of PCI Express lanes            | 40                     |  |                                |
| PCI Express slots version                      | 3.0                    |  |                                |
| Supported instruction sets                     | AVX                    |  |                                |

| Features   |   | Packaging data                 |               |
|--|---|--------------------------------|---------------|
| Scalability  | 25  | Package type                   | Retail box    |
| CPU configuration (max)                                    | 2   | <b>Weight &amp; dimensions</b> |               |
| Embedded options available                                 | <b>X</b>  | Processor package size         | 52.5mm x 45mm |
| PCI Express CEM revision                                   | 3.0   | <b>Other features</b>          |               |
| Export Control Classification Number (ECCN)                | 5A992C  | Maximum internal memory        | 384 GB        |
| Commodity Classification Automated Tracking System (CCATS) | G077159   | Maximum internal memory        | 393216 MB     |
| Images Type Map  |  |                                |               |



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