

## Intel Xeon E5-2420 processor 1.9 GHz 15 MB Smart Cache

**Brand :** Intel

**Product family:** Xeon

**Product code:**  
CM8062001183000

**Product name :** E5-2420

Intel® Xeon® Processor E5-2420

(15M Cache, 1.90 GHz, 7.20 GT/s Intel® QPI)

Intel Xeon E5-2420. Processor family: Intel® Xeon® E5 Family, Processor socket: LGA 1356 (Socket B2), Processor lithography: 32 nm. Memory channels: Triple-channel, Maximum internal memory supported by processor: 384 GB, Memory types supported by processor: DDR3-SDRAM. Market segment: Server, Supported instruction sets: AVX, Scalability: 2S. Package type: Retail box. Processor package size: 45mm x 42.5mm



| Processor                                      |                                                                 | Features                                                 |                          |
|------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------|--------------------------|
| Processor manufacturer *                       | Intel                                                           | Commodity Classification                                 |                          |
| Processor model *                              | E5-2420                                                         | Automated Tracking System (CCATS)                        | G077159                  |
| Processor base frequency *                     | 1.9 GHz                                                         | Images Type Map                                          | <input type="checkbox"/> |
| Processor family *                             | Intel® Xeon® E5 Family                                          | <b>Processor special features</b>                        |                          |
| Processor cores *                              | 6                                                               | Intel® Hyper Threading Technology (Intel® HT Technology) | ✓                        |
| Processor socket *                             | LGA 1356 (Socket B2)                                            | Intel® Identity Protection Technology (Intel® IPT)       | ✗                        |
| Component for                                  | Server/workstation                                              | Intel® Turbo Boost Technology                            | 1.0                      |
| Processor lithography *                        | 32 nm                                                           | Intel Flex Memory Access                                 | ✗                        |
| Processor series                               | Intel Xeon E5-2400                                              | Intel® Smart Cache                                       | ✓                        |
| Processor threads                              | 12                                                              | Intel® AES New Instructions (Intel® AES-NI)              | ✓                        |
| System bus rate                                | 7.2 GT/s                                                        | Enhanced Intel SpeedStep Technology                      | ✓                        |
| Processor operating modes *                    | 64-bit                                                          | Intel Trusted Execution Technology                       | ✓                        |
| Processor boost frequency                      | 2.4 GHz                                                         | Intel Enhanced Halt State                                | ✓                        |
| Processor cache                                | 15 MB                                                           | Intel VT-x with Extended Page Tables (EPT)               | ✓                        |
| Processor cache type                           | Smart Cache                                                     | Intel Demand Based Switching                             | ✓                        |
| L3 cache speed                                 | 1.9 GHz                                                         | Intel 64                                                 | ✓                        |
| Thermal Design Power (TDP)                     | 95 W                                                            | Intel Identity Protection Technology version             | 0.00                     |
| Box *                                          | ✗                                                               | Intel Virtualization Technology (VT-x)                   | ✓                        |
| Cooler included *                              | ✗                                                               | Intel Virtualization Technology for Directed I/O (VT-d)  | ✓                        |
| VID Voltage Range                              | 0.6 - 1.35 V                                                    | Conflict-Free processor                                  | ✗                        |
| Compatible chipsets                            | Intel® C602, Intel® C602J, Intel® C604, Intel® C606, Intel C608 | Intel® vPro™ Platform Eligibility                        | ✓                        |
| Stepping                                       | C2                                                              | <b>Technical details</b>                                 |                          |
| Bus type                                       | QPI                                                             | Bus bandwidth                                            | 7.2                      |
| Number of QPI links                            | 1                                                               | Bus type units                                           | GT/s                     |
| Memory bandwidth supported by processor (max)  | 32 GB/s                                                         | Launch date                                              | Q2'12                    |
| Processor codename                             | Sandy Bridge EN                                                 | Processor cache                                          | 15360 KB                 |
| Processor code                                 | SR0LN                                                           | Product type                                             | Processor                |
| Processor ARK ID                               | 64617                                                           | Status                                                   | Discontinued             |
| <b>Memory</b>                                  |                                                                 | Maximum memory                                           | 384 GB                   |
| Maximum internal memory supported by processor | 384 GB                                                          |                                                          |                          |
| Memory types supported by processor            | DDR3-SDRAM                                                      |                                                          |                          |
| Memory clock speeds supported by processor     | 800,1066,1333 MHz                                               |                                                          |                          |

| Memory                                      |                | Technical details                            |                                |
|---------------------------------------------|----------------|----------------------------------------------|--------------------------------|
| Memory channels *                           | Triple-channel | Processor brand name                         | Intel Xeon                     |
| ECC                                         | ✓              | Supported memory types                       | DDR3-SDRAM                     |
| Graphics                                    |                | Last change                                  | 63903513                       |
| On-board graphics card *                    | ✗              | Product family                               | Intel Xeon Processor E5 Family |
| Features                                    |                | Bus speed                                    | 7.2 GT/s                       |
| Execute Disable Bit                         | ✓              | Logistics data                               |                                |
| Idle States                                 | ✓              | Harmonized System (HS) code                  | 8542310001                     |
| Thermal Monitoring Technologies             | ✓              | Packaging data                               |                                |
| Market segment                              | Server         | Package type                                 | Retail box                     |
| Maximum number of PCI Express lanes         | 24             | Weight & dimensions                          |                                |
| PCI Express slots version                   | 3.0            | Processor package size                       | 45mm x 42.5mm                  |
| Supported instruction sets                  | AVX            | Other features                               |                                |
| Scalability                                 | 2S             | Intel® Virtualization Technology (Intel® VT) | VT-d, VT-x                     |
| CPU configuration (max)                     | 2              | Maximum internal memory                      | 384 GB                         |
| Embedded options available                  | ✗              | Maximum internal memory                      | 393216 MB                      |
| PCI Express CEM revision                    | 3.0            |                                              |                                |
| Export Control Classification Number (ECCN) | 5A992C         |                                              |                                |

Disclaimer. The information published here (the "Information") is based on sources that can be considered reliable, typically the manufacturer, but this Information is provided "AS IS" and without guarantee of correctness or completeness. The Information is only indicative and can be changed at any time without notification. No rights can be based on the Information. Suppliers or aggregators of this Information do not accept any liability with regard to the content of (web)pages and other documents, including its Information. The publisher of the Information can not be held liable for the content of 3rd party websites that are linking this Information or are linked to from this Information. You as the User of the Information are solely responsible for the choice and usage of this Information. You are not entitled to transfer, copy or otherwise multiply or distribute the Information. You are obliged to follow the directions of the copyright owner(s) with regard to the use of the Information. Exclusively Dutch law is applicable. With regard to price and stock data on the site, the publisher followed a number of starting points, which are not necessarily relevant for your private or business circumstances. Therefore, the price and stock data are only indicative and are subject to changes. You are personally responsible for the way you use and apply this information. As a user of the Information or sites or documents in which this Information is included, you will adhere to standard fair use including avoidance of spamming, ripping, intellectual-property violations, privacy violations, and any other illegal activity.

Publication date: 22-DEC-2023. Prints or copies of Information are only valid on the printed Publication date