

Intel® Xeon® Processor E5-2620

15M Cache, 2.00 GHz, 7.20 GT/s Intel® QPI

Essentials

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|---------------------------|----------------------------------|
| Product Collection | Intel® Xeon® Processor E5 Family |
| Vertical Segment | Server |
| Processor Number | E5-2620 |
| Lithography | 32 nm |

CPU Specifications

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|---------------------------------|--------------------------|
| Total Cores | 6 |
| Total Threads | 12 |
| Max Turbo Frequency | 2.50 GHz |
| Processor Base Frequency | 2.00 GHz |
| Cache | 15 MB Intel® Smart Cache |
| Bus Speed | 7.2 GT/s |

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| # of QPI Links | 2 |
| TDP | 95 W |

Supplemental Information

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|--------------------------------------|---------------------------|
| Marketing Status | Discontinued |
| Launch Date | Q1'12 |
| Servicing Status | End of Servicing Lifetime |
| End of Servicing Updates Date | Tuesday, June 30, 2020 |
| Embedded Options Available | Yes |
| Use Conditions | Server/Enterprise |

Memory Specifications

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|---|--------------------|
| Max Memory Size (dependent on memory type) | 384 GB |
| Memory Types | DDR3 800/1066/1333 |
| Max # of Memory Channels | 4 |
| Max Memory Bandwidth | 42.6 GB/s |

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|-------------------------------|-----|
| ECC Memory Supported † | Yes |
|-------------------------------|-----|

Expansion Options

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|-----------------------------------|---------|
| Scalability | 2S Only |
| PCI Express Revision | 3.0 |
| Max # of PCI Express Lanes | 40 |

Package Specifications

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|------------------------------|-----------------|
| Sockets Supported | FCLGA2011 |
| Max CPU Configuration | 2 |
| T_{CASE} | 77.4°C |
| Package Size | 52.5mm x 45.0mm |

Advanced Technologies

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|--|-----|
| Intel® Turbo Boost Technology † | 1.0 |
| Intel® Hyper-Threading Technology † | Yes |
| Intel® 64 † | Yes |

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|--|------------|
| Instruction Set | 64-bit |
| Instruction Set Extensions | Intel® AVX |
| Idle States | Yes |
| Enhanced Intel SpeedStep® Technology | Yes |
| Intel® Demand Based Switching | Yes |
| Thermal Monitoring Technologies | Yes |
| Intel® Flex Memory Access | No |
| Intel® Identity Protection Technology † | No |

Security & Reliability

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|--|----------------------|
| Intel vPro® Eligibility † | Intel vPro® Platform |
| Intel® AES New Instructions | Yes |
| Intel® Trusted Execution Technology † | Yes |
| Execute Disable Bit † | Yes |

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|---|-----|
| Intel® Virtualization Technology (VT-x) ‡ | Yes |
| Intel® Virtualization Technology for Directed I/O (VT-d) ‡ | Yes |
| Intel® VT-x with Extended Page Tables (EPT) ‡ | Yes |

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Refer to Datasheet for formal definitions of product properties and features.

‡ This feature may not be available on all computing systems. Please check with the system vendor to determine if your system delivers this feature, or reference the system specifications (motherboard, processor, chipset, power supply, HDD, graphics controller, memory, BIOS, drivers, virtual machine monitor-VMM, platform software, and/or operating system) for feature compatibility. Functionality, performance, and other benefits of this feature may vary depending on system configuration.

Intel processor numbers are not a measure of performance. Processor numbers differentiate features within each processor family, not across different processor families. See <http://www.intel.com/content/www/us/en/processors/processor-numbers.html> for details.

Recommended Customer Price (RCP) is pricing guidance only for Intel products. Prices are for direct Intel customers, usually represent 1,000-unit purchase quantities, and are subject to change without notice. Prices may vary for other package types and shipment quantities. In bulk, price represents individual unit. Listing of RCP does not constitute a formal pricing offer from Intel.

System and Maximum TDP is based on worst case scenarios. Actual TDP may be lower if not all I/Os for chipsets are used.

"Announced" SKUs are not yet available. Please refer to the Launch Date for market availability.

Max Turbo Frequency refers to the maximum single-core processor frequency that can be achieved with Intel® Turbo Boost Technology. See <https://www.intel.com/content/www/us/en/gaming/resources/turbo-boost.html> for more information and applicability of this technology.

See <http://www.intel.com/content/www/us/en/architecture-and-technology/hyper-threading/hyper-threading-technology.html?wapkw=hyper+threading> for more information including details on which processors support Intel® HT Technology.

Processors that support 64-bit computing on Intel® architecture require an Intel 64 architecture-enabled BIOS.

Check <http://ipt.intel.com/> for systems that support Intel® Identity Protection Technology (Intel® IPT).

Some products can support AES New Instructions with a Processor Configuration update, in particular, i7-2630QM/i7-2635QM, i7-2670QM/i7-2675QM, i5-2430M/i5-2435M, i5-2410M/i5-2415M. Please contact OEM for the BIOS that includes the latest Processor configuration update.