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(intel)

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(intel) XEON Inside

Intel[®] Xeon[®] Processor E5630

12M Cache, 2.53 GHz, 5.86 GT/s Intel® QPI

| | Essentials | Export specifications |
|---|------------------------------|--------------------------------|
| | Product Collection | Legacy Intel® Xeon® Processors |
| n | Code Name | Products formerly Westmere EP |
| | Vertical Segment | Server |
| | Processor Number | E5630 |
| | Status | Discontinued |
| | Launch Date 🕐 | Q1'10 |
| | Lithography 🕐 | 32 nm |
| | Recommended Customer Price 🕡 | - |

Performance

| # of Cores 👔 | 4 |
|----------------------------|------------------|
| # of Threads (? | 8 |
| Processor Base Frequency 🕐 | 2.53 GHz |
| Max Turbo Frequency 👔 | 2.80 GHz |
| Cache 🕐 | 12 MB SmartCache |
| Bus Speed 🕐 | 5.86 GT/s QPI |
| # of QPI Links 👔 | 2 |
| TDP 🕐 | 80 W |
| VID Voltage Range 🕐 | 0.750V-1.350V |

Supplemental Information

| Embedded Options Available 👔 | No |
|------------------------------|----------|
| Datasheet | View now |

Memory Specifications

| Max Memory Size (dependent on memory type) 🕜 | 288 GB |
|--|---------------|
| Memory Types (| DDR3 800/1066 |
| Max # of Memory Channels 🕐 | 3 |
| Max Memory Bandwidth 🕐 | 25.6 GB/s |
| Physical Address Extensions 🥡 | 40-bit |
| ECC Memory Supported ‡ 👔 | Yes |

Specifications Essentials

Performance Supplemental Information Memory Specifications Package Specifications Advanced Technologies Security & Reliability

Ordering and Compliance

Product Images

Compatible Products

Downloads and Software

Package Specifications

| Sockets Supported 🕐 | FCLGA1366 |
|-----------------------|---------------|
| Max CPU Configuration | 2 |
| T _{CASE} (?) | 77.6°C |
| Package Size | 42.5mm X 45mm |

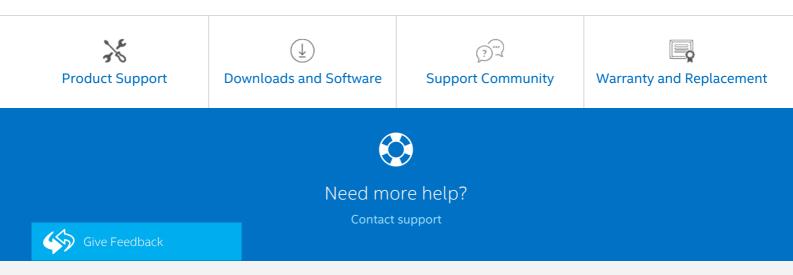
Advanced Technologies

| Intel® Turbo Boost Technology ‡ 👔 | 1.0 |
|--|---------------|
| Intel® Hyper-Threading Technology ‡ 👔 | Yes |
| Intel® Virtualization Technology (VT-x) ‡ 🕐 | Yes |
| Intel® Virtualization Technology for Directed I/O (VT-d) ‡ 🕐 | Yes |
| Intel $^{\circ}$ VT-x with Extended Page Tables (EPT) ‡ 🕐 | Yes |
| Intel® 64 ‡ 🕐 | Yes |
| Instruction Set 🕐 | 64-bit |
| Instruction Set Extensions (?) | Intel® SSE4.2 |
| Idle States 👔 | Yes |
| Enhanced Intel SpeedStep® Technology 👔 | Yes |
| Intel® Demand Based Switching 🕡 | Yes |
| Thermal Monitoring Technologies (?) | No |
| Security & Reliability | |
| Intel® AES New Instructions 👔 | Yes |
| Intel® Trusted Execution Technology ‡ 🕐 | Yes |
| | |

Yes

More support options for Intel® Xeon® Processor E5630 (12M Cache, 2.53 GHz, 5.86 GT/s Intel® QPI)

Execute Disable Bit ‡ 🕐



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

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

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.

‡ 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.

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.

Max Turbo Frequency refers to the maximum single-core processor frequency that can be achieved with Intel® Turbo Boost Technology. See www.intel.com/technology/turboboost/ for more information.

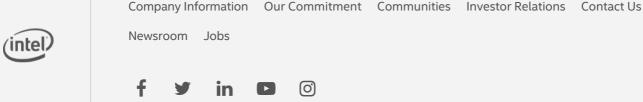
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System and Maximum TDP is based on worst case scenarios. Actual TDP may be lower if not all I/Os for chipsets are used.

For benchmarking data see http://www.intel.com/performance.

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.

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



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