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Intel® Xeon® Processor E5-2637  
(5M Cache, 3.00 GHz, 8.00 GT/s Intel® QPI)

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SPECIFICATIONS

Essentials

Status	Launched
Launch Date	Q1'12
Processor Number	E5-2637
# of Cores	2
# of Threads	4
Clock Speed	3 GHz
Max Turbo Frequency	3.5 GHz
Cache	5 MB
Intel® QPI Speed	8 GT/s
# of QPI Links	2
Instruction Set	64-bit
Instruction Set Extensions	AVX
Embedded Options Available	No
Lithography	32 nm
Scalability	2S Only
Max TDP	80 W
VID Voltage Range	0.6V - 1.35V
Recommended Customer Price	TRAY: \$885.00

Memory Specifications

Max Memory Size (dependent on memory type)	384 GB
Memory Types	DDR3-800/1066/1333/1600
# of Memory Channels	4
Max Memory Bandwidth	51.2 GB/s
ECC Memory Supported ‡	Yes

Expansion Options

PCI Express Revision	3.0
Max # of PCI Express Lanes	40

Package Specifications

Max CPU Configuration	2
T <sub>CASE</sub>	70.0°C
Package Size	52.5mm x 45.0mm
Sockets Supported	FCLGA2011
Low Halogen Options Available	See MDDS

Advanced Technologies

Intel® Turbo Boost Technology ‡	2.0
Intel® vPro Technology ‡	Yes
Intel® Hyper-Threading Technology ‡	Yes
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
Intel® 64 ‡	Yes
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

Intel® Data Protection Technology

AES New Instructions	Yes
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RELATED PRODUCTS

- Intel® Xeon® Processor E5 Family
- Intel® Xeon® Processor E5-2600 Product Family
- Products formerly Sandy Bridge-EP

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PCN/MDDS Information

SR0LE  
919263: PCN | MDDS

Intel® Platform Protection Technology

Trusted Execution Technology‡  Yes

Execute Disable Bit‡ Yes

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

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.

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

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

The Recommended Customer Price ("RCP") is pricing guidance for Intel products. Prices are for direct Intel customers and are subject to change without notice. Taxes and shipping, etc. not included.

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‡ 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.


Low Halogen: Applies only to brominated and chlorinated flame retardants (BFRs/CFRs) and PVC in the final product. Intel components as well as purchased components on the finished assembly meet JS-709 requirements, and the PCB / substrate meet IEC 61249-2-21 requirements. The replacement of halogenated flame retardants and/or PVC may not be better for the environment.

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/](http://www.intel.com/technology/turboboost/) for more information.

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.

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.

 Send us your feedback!

