



ARK Home ▶

Type Here to Search Products



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



Add to Compare

SPECIFICATIONS

- Essentials
- Memory Specifications
- Expansion Options
- Package Specifications
- Advanced Technologies
- Intel® Data Protection Technology
- Intel® Platform Protection Technology

COMPATIBLE PRODUCTS

PRODUCT IMAGES

ORDERING / SSPECS / STEPPINGS

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	A/X
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 _{CASE}	70.0°C
Package Size	52.5mm x45.0mm
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
----------------------	-------

RELATED PRODUCTS

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

QUICK LINKS

- Download Datasheet
- Search Distributors
- Software Downloads
- Support Overview
- Search all of intel.com

PCN/MDDs Information

SR0LE
919263: [PCN](#) | [MDDs](#)

Intel® Platform Protection Technology

Trusted Execution Technology‡	 Yes
Execute Disable Bit‡	Yes

All information provided is subject to change at any time, without notice. Intel may make changes to manufacturing life cycle, specifications, and product descriptions at any time, without notice. The information herein is provided "as-is" and Intel does not make any representations or warranties whatsoever regarding accuracy of the information, nor on the product features, availability, functionality, or compatibility of the products listed. Please contact system vendor for more information on specific products or systems.

"Intel classifications" consist of Export Control Classification Numbers (ECCN) and Harmonized Tariff Schedule (HTS) numbers. Any use made of Intel classifications are without recourse to Intel and shall not be construed as a representation or warranty regarding the proper ECCN or HTS. Your company may be the exporter of record, and as such, your company is responsible for determining the correct classification of any item at the time of export.

"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. Prices may vary for other package types and shipment quantities, and special promotional arrangements may apply. Listing of these RCP does not constitute a formal pricing offer from Intel. Please work with your appropriate Intel representative to obtain a formal price quotation.

‡ 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/ 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!

