



Intel® Xeon® Processor E5-2643

10M Cache, 3.30 GHz, 8.00 GT/s Intel® QPI

Add to Compare

Shop for this product

Specifications Essentials Performance Supplemental Information Memory Specifications Expansion Options Package Specifications Advanced Technologies Intel® Data Protection Technology Intel® Platform Protection

Ordering and Compliance

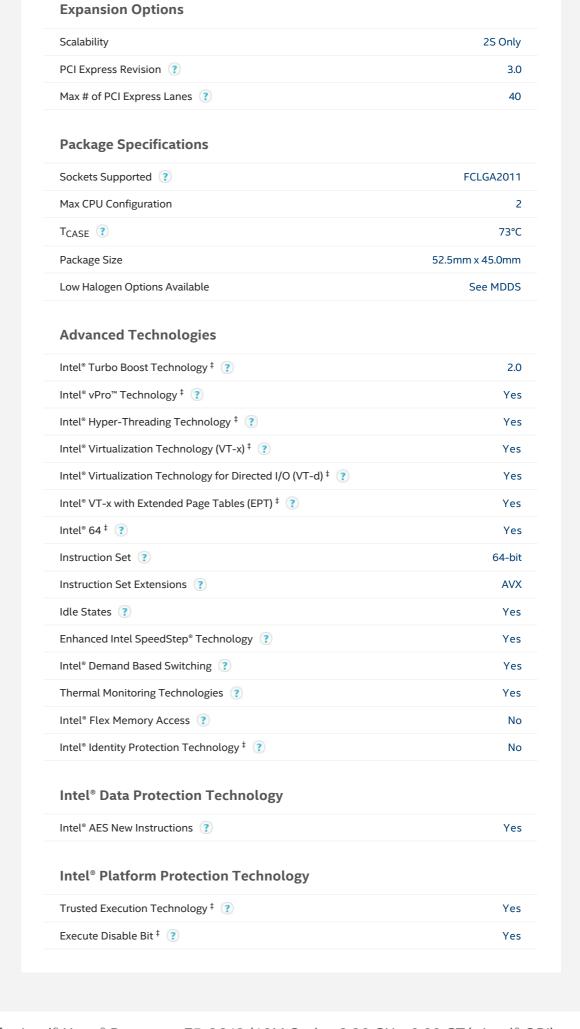
Technology

Benchmarks

Product Images

Compatible Products

Essentials	Export specification
Product Collection	Intel® Xeon® Processor E5 Family
Code Name	Products formerly Sandy Bridge EP
Vertical Segment	Server
Processor Number	E5-2643
Status	End of Life
Launch Date ③	Q1'12
Expected Discontinuance ?	Q2'15
Lithography ?	32 nm
Recommended Customer Price ?	
Performance	
# of Cores 💿	4
# of Threads ?	8
Processor Base Frequency ?	3.30 GHz
Max Turbo Frequency 💿	3.50 GHz
Cache ?	10 MB SmartCache
Bus Speed 🔞	8 GT/s QPI
# of QPI Links 🔞	2
TDP ?	130 W
VID Voltage Range 💿	0.60V-1.35V
Supplemental Information	
Embedded Options Available ?	No
Datasheet	View now
Memory Specifications	
Max Memory Size (dependent on memory type) 🔞	384 GB
Memory Types 🔞	DDR3 800/1066/1333/1600
Max # of Memory Channels ?	4
Max Memory Bandwidth ?	51.2 GB/s
ECC Memory Supported ‡ ?	Yes



More support options for Intel® Xeon® Processor E5-2643 (10M Cache, 3.30 GHz, 8.00 GT/s Intel® QPI)











Need more help?

Contact support



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 are for informational purposes only and 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 as an importer and/or exporter is responsible for determining the correct classification of your transaction.

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.

"Conflict free" and "conflict-free" means "DRC conflict free", which is defined by the U.S. Securities and Exchange Commission rules to mean products that do not contain conflict minerals (tin, tantalum, tungsten and/or gold) that directly or indirectly finance or benefit armed groups in the Democratic Republic of the Congo (DRC) or adjoining countries. Intel also uses the term "conflict-free" in a broader sense to refer to suppliers, supply chains, smelters and refiners whose sources of conflict minerals do not finance conflict in the DRC or adjoining countries. Intel processors manufactured before January 1, 2013 are not confirmed conflict free. The conflict free designation refers only to product manufactured after that date. For Intel Boxed Processors, the conflict free designation refers to the processor only, not to any additional included accessories, such as heatsinks/coolers.

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.

The Recommended Customer -unit

purchase quantities, 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. If sold in bulk, price represents individual unit. 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.

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

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.

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

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

 $Processors\ that\ support\ 64-bit\ computing\ on\ Intel^{\circledast}\ architecture\ require\ an\ Intel\ 64\ architecture-enabled\ BIOS.$



Company Information Our Commitment Communities Investor Relations Contact Us

Newsroom Jobs











