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Intel® Xeon® Processor E5-2643 v3 (20M Cache, 3.40 GHz)

Datasheet

Product Brief

Recommended Customer Price

Additional Information URL

Specifications Essentials Performance Memory Specifications Expansion Options Package Specifications Advanced Technologies

Intel® Data Protection Intel® Platform Protection Technology

Compatible Products

Ordering / sSpecs / Steppings

Specifications				
- Essentials				
Status		Launched		
Launch Date		Q3'14		
Processor Number		E5-2643V3		
Intel® Smart Cache		20 MB		
Intel® QPI Speed		9.6 GT/s		
# of QPI Links		2		
Instruction Set		64-bit		
Instruction Set Extensions		AVX 2.0		
Embedded Options Available	Q	No		
Lithography		22 nm		
Scalability		2S		
VID Voltage Range		0.65V-1.30V		

Performance	
# of Cores	6
# of Threads	12
Processor Base Frequency	3.4 GHz
Max Turbo Frequency	3.7 GHz
TDP	135 W

TRAY:

Link

Memory Specifications	
Max Memory Size (dependent on memory type)	768 GB
Memory Types	DDR4-1600/1866/2133
# of Memory Channels	4
Max Memory Bandwidth	68 GB/s
Physical Address Extensions	46-bit
ECC Memory Supported ‡	Yes

Expansion Options	
PCI Express Revision	3.0
PCI Express Configurations ‡	x4, x8, x16
Max # of PCI Express Lanes	40

- Package Specifications	
Max CPU Configuration	2
TCASE	77.3°C
Package Size	52.5mm x 45mm
Sockets Supported	FCLGA2011-3
Low Halogen Options Available	See MDDS
Advanced Technologies	

Advanced Technologies	
Intel® Turbo Boost Technology ‡	2.0
Intel® vPro Technology ‡	Yes
Intel® Hyper-Threading Technology ‡	Yes
Intel® Virtualization Technology (VT-x) [‡]	Yes
	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

"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 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.

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

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® architecture require an Intel 64 architecture-enabled BIOS.

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