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Intel® Xeon® Processor E5-2697 v3

35M Cache, 2.60 GHz

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Essentials

Product Collection	Intel® Xeon® Processor E5 v3 Family
Vertical Segment	Server
Status	Launched
Lithography ?	22 nm

Code Name	Products formerly Haswell
Processor Number	E5-2697V3
Launch Date ?	Q3'14
Recommended Customer F	Price ? -

Performance

# of Cores ?	14
Processor Base Frequency ?	2.60 GHz
Cache ?	35 MB SmartCache
# of QPI Links ?	2
VID Voltage Range ?	0.65V-1.30V

# of Threads ?	28
Max Turbo Frequency ?	3.60 GHz
Bus Speed ?	9.6 GT/s QPI
TDP ?	145 W

Supplemental Information

Embedded Options Available ? Q	No
Datasheet	View now
Additional Information URL	View now

Droduct Priof	Conflict Free ?	Yes
Product Brief View flow	Product Brief	View now

Learn how Intel is pursuing conflict-free technology.

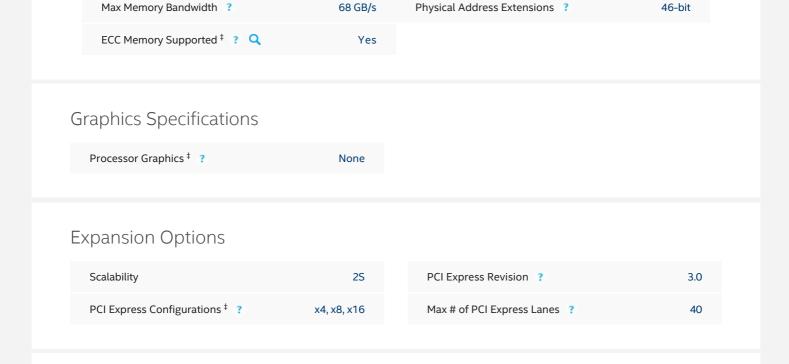


Memory Specifications

Max Memory Size (dependent on memory type) ? 768 GB

Memory Types ? DDR4 1600/1866/2133

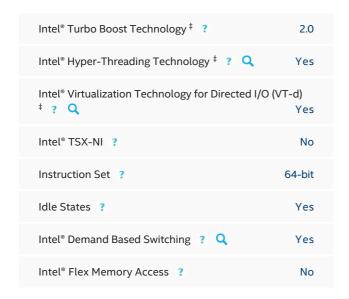
Max # of Memory Channels ? 4





Sockets Supported ?	FCLGA2011-3	Max CPU Configuration	2
T _{CASE} ?	76.7°C	Package Size	52.5mm x 51mm
		Low Halogen Ontions Available	See MDDS

Advanced Technologies



Intel® vPro Technology ‡ ? Q	Yes	
Intel® Virtualization Technology (VT-x) † ?	Yes	
Intel® VT-x with Extended Page Tables (EPT) ‡ ? Q Yes		
Intel® 64 ‡ ? Q	Yes	
Instruction Set Extensions ?	AVX 2.0	
Enhanced Intel SpeedStep® Technology ? Q	Yes	
Thermal Monitoring Technologies ?	Yes	
Intel® Identity Protection Technology † ?	No	

Intel® Data Protection Technology

Intel® AES New Instructions ? Q Yes Secure Key ? Yes

Intel® Platform Protection Technology

OS Guard Yes

Trusted Execution Technology ‡ ? Q Yes

Execute Disable Bit ‡ ?

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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 -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 $purchased\ components\ on\ the\ finished\ assembly\ meet\ JS-709\ requirements, and\ the\ PCB\ /\ substrate\ meet\ IEC\ 61249-2-21\ requirements.$ 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.

More support options for Intel® Xeon® Processor E5-2697 v3 (35M Cache, 2.60 GHz)



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