



Support Home > Product Specifications > Processors

Search specifications

Add to Compare





Intel® Xeon® Processor E5-2620 v2

15M Cache, 2.10 GHz

Specifications

Essentials

Performance

Supplemental Information

Memory Specifications

Expansion Options

Package Specifications

Advanced Technologies

Security & Reliability

Ordering and Compliance

Benchmarks

Compatible Products

Essentials	Export specification
Product Collection Int	rel® Xeon® Processor E5 v2 Family
Code Name	Products formerly Ivy Bridge EP
Vertical Segment	Server
Processor Number	E5-2620V2
Status	Launched
Launch Date ?	Q3'13
Lithography ?	22 nm
Recommended Customer Price ?	-
Performance	
# of Cores 😨	6
# of Threads ?	12
Processor Base Frequency ?	2.10 GHz
Max Turbo Frequency 👔	2.60 GHz
Cache ?	15 MB SmartCache
Bus Speed 🔞	7.2 GT/s QPI
# of QPI Links 🔞	2
TDP ?	80 W
VID Voltage Range ?	0.65-1.30V
Supplemental Information	
Embedded Options Available ?	No
Conflict Free ?	Yes
Datasheet	View now
Additional Information URL	View now
Learn how Intel is pursuing conflict-free technolog	y. CF CONFLICT FREE
Memory Specifications	
Max Memory Size (dependent on memory type) 😨	768 GB

Max Memory Size (dependent on memory type) 🕐	768 GB
Memory Types ?	DDR3 800/1066/1333/1600
Max # of Memory Channels 🔞	4

51.2 GB/s

Max Memory Bandwidth ?

Physical Address Extensions 🕝	46-bi
ECC Memory Supported ‡ ?	Ye
Expansion Options	
Scalability	2S Only
PCI Express Revision ?	3.0
PCI Express Configurations ‡ ?	x4, x8, x16
Max # of PCI Express Lanes 🔞	40
Package Specifications	
Sockets Supported ?	FCLGA201
Max CPU Configuration	
T _{CASE} ?	71°0
Package Size	52.5mm x 45mn
Low Halogen Options Available	See MDDS
Advanced Technologies	
Intel® Turbo Boost Technology ‡ 🕡	2.0
Intel® vPro™ Technology ‡ 💽	Ye
Intel® Hyper-Threading Technology ‡ 👔	Ye
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® TSX-NI 🔞	No
Intel® 64 ‡ ?	Yes
Instruction Set ?	64-bi
Instruction Set Extensions ?	AVX
Idle States ?	Yes
Enhanced Intel SpeedStep® Technology ③	Yes
Intel® Demand Based Switching 🔞	Ye
Thermal Monitoring Technologies ?	Yes
Intel® Flex Memory Access ?	No
Intel® Identity Protection Technology ‡ 🔞	No
Security & Reliability	
Intel® AES New Instructions ?	Ye
Secure Key ?	Yes
OS Guard	Yes
Intel® Trusted Execution Technology ‡ ?	Yes
Execute Disable Bit ‡ ?	Yes

More support options for Intel® Xeon® Processor E5-2620 v2 (15M Cache, 2.10 GHz)





Downloads and Software



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Warranty and Replacement



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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. 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.

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



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