68 GB/s

46-bit

Support Home > Product Specifications > Processors

Search specifications



# Intel® Xeon® Processor E5-2690 v3

Max Memory Bandwidth ?

Physical Address Extensions ?

Add to Compare

30M Cache, 2.60 GHz

## Specifications

### Essentials

Performance

Supplemental Information

**Memory Specifications** 

**Expansion Options** 

Package Specifications

Advanced Technologies

Security & Reliability

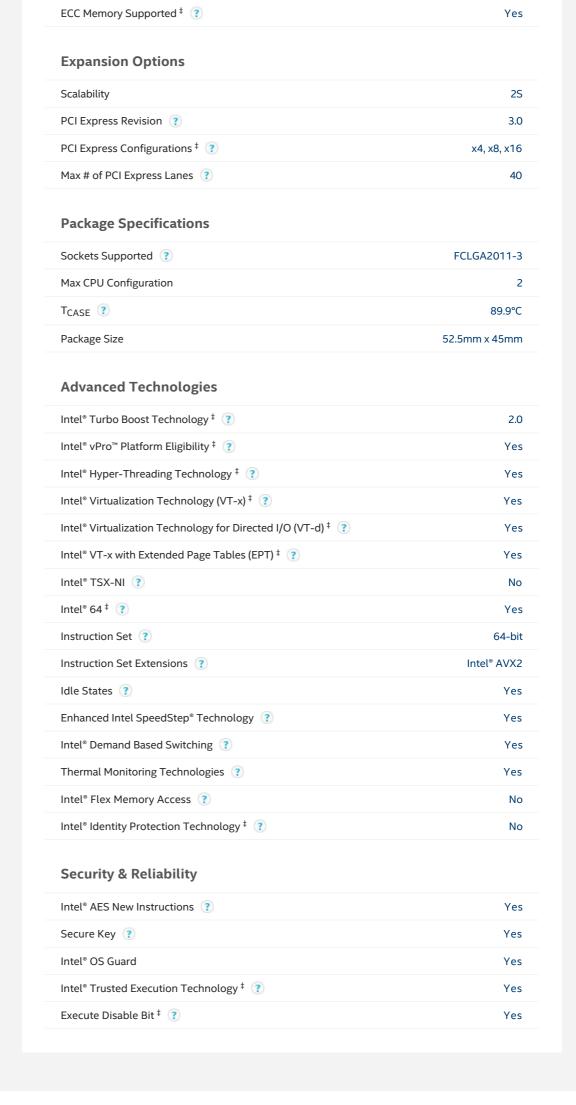
## Ordering and Compliance

#### **Product Images**

## **Compatible Products**

Downloads and Software

Essentials	Export specificatio
Product Collection	Intel® Xeon® Processor E5 v3 Family
Code Name	Products formerly Haswell
Vertical Segment	Server
Processor Number	E5-2690V3
Status	Launched
Launch Date ?	Q3'14
Lithography 💽	22 nm
Recommended Customer Price ?	-
Performance	
# of Cores ?	12
# of Threads ?	24
Processor Base Frequency 💿	2.60 GHz
Max Turbo Frequency 🕝	3.50 GHz
Cache ?	30 MB SmartCache
Bus Speed 🔞	9.6 GT/s QPI
# of QPI Links 🔞	2
TDP ?	135 W
VID Voltage Range 💿	0.65V-1.30V
Supplemental Information	
Embedded Options Available ?	No
Datasheet	View now
Product Brief	View now
Additional Information URL	View now
Memory Specifications	
Max Memory Size (dependent on memory type) 🔞	768 GB
Memory Types ?	DDR4 1600/1866/2133
Max # of Memory Channels 3	4













## 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 vet 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.

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.

 $Max Turbo \ Frequency \ refers \ to \ the \ maximum \ single-core \ processor \ frequency \ that \ can \ be \ achieved \ with \ Intel^{\circ} \ Turbo \ Boost \ Technology. \ See$ 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, typically represent 1,000-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.

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.



Company Information Our Commitment Communities Investor Relations Contact Us Jobs Newsroom











