









Intel® Xeon® Processor E5-2690 v4

35M Cache, 2.60 GHz

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Essentials	Export specification	
Product Collection	Intel® Xeon® Processor E5 v4 Family	
Code Name	Products formerly Broadwell	
Vertical Segment	Server	
Processor Number	E5-2690V4	
Off Roadmap	No	
Status	Launched	
Launch Date ?	Q1'16	
Lithography ?	14 nm	
Recommended Customer Price ?	-	
Performance		
# of Cores ?	14	
# of Threads ?	28	
Processor Base Frequency ?	2.60 GHz	
Max Turbo Frequency 🔞	3.50 GHz	
Cache ?	35 MB Intel® Smart Cache	
Bus Speed ?	9.6 GT/s	
# of QPI Links ?	2	
TDP ?	135 W	
VID Voltage Range 🔞	0	
Supplemental Information		
Embedded Options Available ?	No	
Datasheet	View now	
Memory Specifications		
Max Memory Size (dependent on memory type) ?	1.5 TB	
Memory Types ?	DDR4 1600/1866/2133/2400	
Max # of Memory Channels ?	4	

Max Memory Bandwidth 🕜	76.8 GB
Physical Address Extensions ?	46-k
ECC Memory Supported ‡ ?	Y
Expansion Options	
Scalability	2
PCI Express Revision ?	3
PCI Express Configurations ‡ ?	x4, x8, x
Max # of PCI Express Lanes 💿	4
Package Specifications	
Sockets Supported ?	FCLGA2011
Max CPU Configuration	
T _{CASE} ?	89
Package Size	45mm x 52.5m
Advanced Technologies	
Intel® Turbo Boost Technology ‡ 🔞	2
Intel® vPro™ Platform Eligibility ‡ 👔	Υ
Intel® Hyper-Threading Technology ‡ ?	Υ
Intel® Virtualization Technology (VT-x) ‡ ?	Y
Intel® Virtualization Technology for Directed I/O (VT-d)‡	Υ
Intel® VT-x with Extended Page Tables (EPT) ‡ 🔞	Y
Intel® TSX-NI ?	Υ
Intel® 64 ‡ 🔞	Υ
Instruction Set ?	64-
Instruction Set Extensions ?	Intel® AV
Idle States ?	Υ
Enhanced Intel SpeedStep® Technology ?	Υ
Intel® Demand Based Switching ?	Υ
Thermal Monitoring Technologies ?	Υ
Intel® Flex Memory Access ?	1
Intel® Identity Protection Technology ‡ 🔞	1
Security & Reliability	
Intel® AES New Instructions ?	Υ
Secure Key ?	Y
Intel® OS Guard	Y
Intel® Trusted Execution Technology ‡ ?	Y
rxecute Disable Bit ‡ ?	Υ

More support options for Intel® Xeon® Processor E5-2690 v4 (35M Cache, 2.60 GHz)





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Refer to Datasheet for formal definitions of product properties and features.

‡ 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.

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.

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

"Announced" SKUs are not yet available. Please refer to the Launch Date for market availability.

Check http://ipt.intel.com/ for systems that support Intel® Identity Protection Technology (Intel® IPT).

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.

 $See http://www.intel.com/content/www/us/en/architecture-and-technology/hyper-threading/hyper-threading-technology. \\html? wapkw=hyper+threading for more information including details on which processors support Intel® HT Technology. \\$

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.

Processors that support 64-bit computing on Intel® architecture require an Intel 64 architecture-enabled BIOS.



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