

Intel® Xeon® Processor E5-2697A v4

40M Cache, 2.60 GHz

Specifications

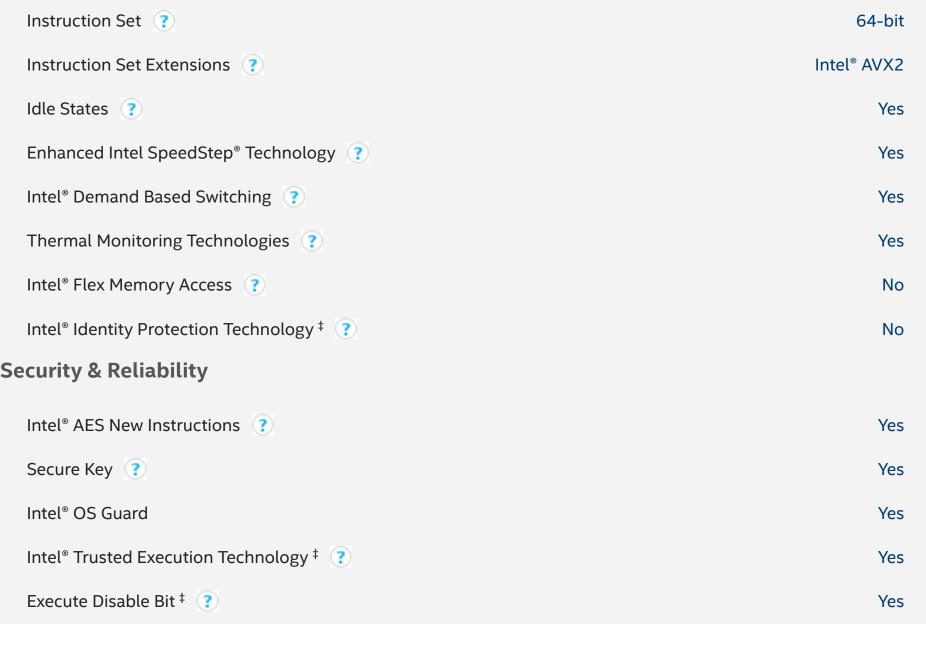
Export specifications

Essentials

Product Collection	Intel® Xeon® Processor E5 v4 Family
Code Name	Products formerly Broadwell
Vertical Segment	Server
Processor Number	E5-2697AV4
Status	Launched
Launch Date ?	Q1'16
Lithography ?	14 nm
Recommended Customer Price ?	\$2891.00
Performance	
# of Cores ?	16
# of Threads ?	32
Processor Base Frequency ?	2.60 GHz
Max Turbo Frequency ?	3.60 GHz
Cache ?	40 MB SmartCache
Bus Speed ?	9.6 GT/s QPI
# of QPI Links ?	2
TDP ?	145 W
VID Voltage Range 🕐	0

Supplemental Information

Embedded Options Available ?	No
Datasheet	View now
Memory Specifications	
Max Memory Size (dependent on memory type)	1.54 TB
Memory Types ?	DDR4 1600/1866/2133/2400
Max # of Memory Channels ?	4
Max Memory Bandwidth ?	76.8 GB/s
Physical Address Extensions ?	46-bit
ECC Memory Supported ‡ ?	Yes
Expansion Options	
Scalability	25
PCI Express Revision ?	3.0
PCI Express Configurations ‡ ?	x4, x8, x16
Max # of PCI Express Lanes ?	40
Package Specifications	
Sockets Supported ?	FCLGA2011-3
Max CPU Configuration	2
T _{CASE} ?	78°C
Package Size	45mm x 52.5mm
Advanced Technologies	
Intel® Turbo Boost Technology ‡ 🕐	2.0
Intel® vPro™ Platform Eligibility ‡ 💽	Yes
Intel® Hyper-Threading Technology ‡ 🕐	Yes
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 🕐	Yes
Intel® 64 ‡ 🕐	Yes



Compatible Products

Product Images

Ordering and Compliance

Downloads and Software

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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.

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, 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.