



## Intel® Xeon® Processor E5-2640 v4

25M Cache, 2.40 GHz

Specifications

Compatible Products

Product Images

Ordering and Compliance

### Ordering and spec information

#### Intel® Xeon® Processor E5-2640 v4 (25M Cache, 2.40 GHz) FC-LGA14A, Tray

Spec Code	SR2NZ
Ordering Code	CM8066002032701
Step	R0
RCP	\$939.00

### Trade compliance information

ECCN	5A992C
CCATS	G077159
US HTS	8542310001

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/](http://www.intel.com/technology/turboboost/) for more information.

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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® architecture require an Intel 64 architecture-enabled BIOS.

**Intel® Xeon® Processor E5-2640 v4** Add to Compare  
 25M Cache, 2.40 GHz

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**Essentials** Export specifications

Product Collection	Intel® Xeon® Processor E5 v4 Family
Code Name	Products formerly Broadwell
Vertical Segment	Server
Processor Number	E5-2640V4
Status	Launched
Launch Date <sup>?</sup>	Q1'16
Lithography <sup>?</sup>	14 nm
Recommended Customer Price <sup>?</sup>	\$939.00
Use Conditions <sup>?</sup>	Server/Enterprise

**Performance**

# of Cores <sup>?</sup>	10
# of Threads <sup>?</sup>	20
Processor Base Frequency <sup>?</sup>	2.40 GHz
Max Turbo Frequency <sup>?</sup>	3.40 GHz
Cache <sup>?</sup>	25 MB SmartCache
Bus Speed <sup>?</sup>	8 GT/s QPI
# of QPI Links <sup>?</sup>	2
TDP <sup>?</sup>	90 W
VID Voltage Range <sup>?</sup>	0

**Supplemental Information**

Embedded Options Available <sup>?</sup>	Yes
Datasheet	<a href="#">View now</a>

**Memory Specifications**

Max Memory Size (dependent on memory type) <sup>?</sup>	1.54 TB
Memory Types <sup>?</sup>	DDR4 1600/1866/2133
Max # of Memory Channels <sup>?</sup>	4
Max Memory Bandwidth <sup>?</sup>	68.3 GB/s
Physical Address Extensions <sup>?</sup>	46-bit
ECC Memory Supported <sup>?</sup>	Yes

**Expansion Options**

Scalability	25
PCI Express Revision <sup>?</sup>	3.0
PCI Express Configurations <sup>?</sup>	x4, x8, x16
Max # of PCI Express Lanes <sup>?</sup>	40

**Package Specifications**

Sockets Supported <sup>?</sup>	FCLGA2011-3
Max CPU Configuration	2
T <sub>CASE</sub> <sup>?</sup>	76°C
Package Size	45mm x 52.5mm
Low Halogen Options Available	See MDDS

**Advanced Technologies**

Intel® Turbo Boost Technology <sup>?</sup>	2.0
Intel® vPro™ Technology <sup>?</sup>	Yes
Intel® Hyper-Threading Technology <sup>?</sup>	Yes
Intel® Virtualization Technology (VT-x) <sup>?</sup>	Yes
Intel® Virtualization Technology for Directed I/O (VT-d) <sup>?</sup>	Yes
Intel® VT-x with Extended Page Tables (EPT) <sup>?</sup>	Yes
Intel® TSX-NI <sup>?</sup>	Yes
Intel® E4 <sup>?</sup>	Yes
Instruction Set <sup>?</sup>	64-bit
Instruction Set Extensions <sup>?</sup>	Intel® AVX2
Idle States <sup>?</sup>	Yes
Enhanced Intel SpeedStep® Technology <sup>?</sup>	Yes
Intel® Demand Based Switching <sup>?</sup>	Yes
Thermal Monitoring Technologies <sup>?</sup>	Yes
Intel® Flex Memory Access <sup>?</sup>	No
Intel® Identity Protection Technology <sup>?</sup>	No

**Security & Reliability**

Intel® AES New Instructions <sup>?</sup>	Yes
Secure Key <sup>?</sup>	Yes
Intel® OS Guard	Yes
Intel® Trusted Execution Technology <sup>?</sup>	Yes
Execute Disable Bit <sup>?</sup>	Yes

More support options for Intel® Xeon® Processor E5-2640 v4 (25M Cache, 2.40 GHz)

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