



Intel® Xeon® Processor E5-2660 v3

25M Cache, 2.60 GHz

Specifications

Export specifications

Essentials

Product Collection	Intel® Xeon® Processor E5 v3 Family
Code Name	Products formerly Haswell
Vertical Segment	Server
Processor Number	E5-2660V3
Status	Launched
Launch Date	Q3'14
Lithography	22 nm
Recommended Customer Price	\$1445.00 - \$1449.00

Performance

# of Cores	10
# of Threads	20
Processor Base Frequency	2.60 GHz
Max Turbo Frequency	3.30 GHz
Cache	25 MB SmartCache
Bus Speed	



bus speed

9.6 GT/s QPI
USA (English)   2 

of QPI Links

TDP

105 W

VID Voltage Range

0.65V–1.30V

Supplemental Information

Embedded Options Available

No

Datasheet

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Product Brief

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Memory Specifications

Max Memory Size (dependent on memory type)

768 GB

Memory Types

DDR4 1600/1866/2133

Max # of Memory Channels

4

Max Memory Bandwidth

68 GB/s

Physical Address Extensions

46-bit

ECC Memory Supported †

Yes

Expansion Options

Scalability

2S

PCI Express Revision

3.0

PCI Express Configurations †

x4, x8, x16

Max # of PCI Express Lanes

40

Package Specifications

USA (English)   

Sockets Supported	FCLGA2011-3
Max CPU Configuration	2
T _{CASE}	79°C
Package Size	52.5mm x 45mm
Low Halogen Options Available	No

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	No
Intel® 64 †	Yes
Instruction Set	64-bit
Instruction Set Extensions	Intel® AVX2
Idle States	Yes
Enhanced Intel SpeedStep® Technology	Yes
Intel® Demand Based Switching	Yes
Thermal Monitoring Technologies	Yes
Intel® Flex Memory Access	No
Intel® Identity Protection Technology †	No

Security & Reliability

USA (English)   

Intel® AES New Instructions	Yes
Secure Key	Yes
Intel® OS Guard	Yes
Intel® Trusted Execution Technology ‡	Yes
Execute Disable Bit ‡	Yes

Ordering and Compliance

Compatible products

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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.

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

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.

USA (English)   

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