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Intel® Xeon® Processor E5-2630 v2

15M Cache, 2.60 GHz

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Specifications

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Ordering and

Essentials

⬇ Export specifications

Product Collection	Intel® Xeon® Processor E5 v2 Family
Code Name	Products formerly Ivy Bridge EP
Vertical Segment	Server
Processor Number	E5-2630V2
Status	Launched
Launch Date ❓	Q3'13
Lithography ❓	22 nm
Use Conditions ❓	Server/Enterprise
❓	-

Performance

# of Cores ?	6
# of Threads ?	12
Processor Base Frequency ?	2.60 GHz
Max Turbo Frequency ?	3.10 GHz
Cache ?	15 MB SmartCache
Bus Speed ?	7.2 GT/s QPI
# of QPI Links ?	2
TDP ?	80 W
VID Voltage Range ?	0.65–1.30V

Supplemental Information

Embedded Options Available ?	Yes
Datasheet	View now
Additional Information URL	View now

Memory Specifications

Max Memory Size (dependent on memory type) ?	768 GB
Memory Types ?	DDR3 800/1066/1333/1600
Max # of Memory Channels ?	4
Max Memory Bandwidth ?	51.2 GB/s
Physical Address Extensions ?	46-bit
ECC Memory Supported ‡ ?	Yes

Expansion Options

Scalability	2S Only
PCI Express Revision ?	3.0
PCI Express Configurations ‡ ?	x4, x8, x16
Max # of PCI Express Lanes ?	40

Package Specifications

Sockets Supported ?	FCLGA2011
Max CPU Configuration	2
T_{CASE} ?	71°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 ‡ ⑦	Yes
Intel® Virtualization Technology (VT-x) ‡ ⑦	Yes
Intel® Virtualization Technology for Directed I/O (VT-d) ‡ ⑦	Yes
Intel® VT-x with Extended Page Tables (EPT) ‡ ⑦	Yes
Intel® TSX-NI ⑦	No
Intel® 64 ‡ ⑦	Yes
Instruction Set ⑦	64-bit
Instruction Set Extensions ⑦	Intel® AVX
Idle States ⑦	Yes
Enhanced Intel SpeedStep® Technology ⑦	Yes
Intel® Demand Based Switching ⑦	Yes
Thermal Monitoring Technologies ⑦	Yes
Intel® Flex Memory Access ⑦	No
Intel® Identity Protection Technology ‡ ⑦	No

Security & Reliability

Intel® AES New Instructions ⑦	Yes
Secure Key ⑦	Yes
Intel® OS Guard	Yes
Intel® Trusted Execution Technology ‡ ⑦	Yes
Execute Disable Bit ‡ ⑦	Yes

More support options for Intel® Xeon® Processor E5-2630 v2 (15M Cache, 2.60 GHz)

Product Support	Downloads and Software	Support Community	Warranty and Replacement

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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.

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.

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

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.

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.

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

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