Intel® Xeon® Processor E5-4607 v2

15M Cache, 2.60 GHz

Specifications

Export specifications

Essentials

Product Collection	Intel® Xeon® Processor E5 v2 Family
Code Name	Products formerly Ivy Bridge EP
Vertical Segment	Server
Processor Number	E5-4607V2
Status	Launched
Launch Date	Q1'14
Lithography	22 nm
Recommended Customer Price	$885.00

Performance

# of Cores	6
# of Threads	12
Processor Base Frequency	2.60 GHz
Max Turbo Frequency	2.60 GHz
Cache	15 MB SmartCache

Bus Speed	6.4 GT/s QPI
# of QPI Links	
TDP	95 W
VID Voltage Range	0.65-1.30V

Supplemental Information

Embedded Options Available	No
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
Max # of Memory Channels	4
Max Memory Bandwidth	42.6 GB/s
Physical Address Extensions	46-bit
ECC Memory Supported ‡	Yes

Expansion Options

Scalability	4S 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	4
T_{CASE}	77°C
Package Size	52.5 mm x 45 mm

Advanced Technologies

Intel® Turbo Boost Technology ‡	No
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® AVX
Idle States	Yes
Enhanced Intel SpeedStep® Technology	Yes
Intel® Demand Based Switching	Yes
Thermal Monitoring Technologies	Yes

Security & Reliability

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

Ordering and Compliance

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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.

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.

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.

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.

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.

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