Intel® Xeon® Processor E5-2620 (15M Cache, 2.00 GHz, 7.20 GT/s Intel® QPI)

Specifications

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Essentials		
Status	Launched	
Launch Date	Q1'12	
Processor Number	E5-2620	
# of Cores	6	
# of Threads	12	
Clock Speed	2 GHz	
Max Turbo Frequency	2.5 GHz	
Bus/Core Ratio	25	
Intel® QPI Speed	7.2 GT/s	
# of QPI Links	2	
Instruction Set	64-bit	
Instruction Set Extensions	AVX	
Embedded Options Available	Yes	
Lithography	32 nm	
Scalability	2S Only	
Max TDP	95 W	
VID Voltage Range	0.60V-1.35V	
Recommended Customer Price	\$406 - \$410	

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Memory Specifications			
Memory Types		DDR3-800/1066/1333	
# of Memory Channels	4		
ECC Memory Supported	Yes		
Graphics Specifications			
Integrated Graphics	A		
Expansion Options			
PCI Express Revision		3.0	
# of PCI Express Ports		40	
Package Specifications			
Max CPU Configuration		2	
T _{CASE}		77.4°C	
Package Size		52.5mm x 45.0mm	
Sockets Supported		FCLGA2011	
Low Halogen Options Available		See MDDS	
Advanced Technologies			
Intel® Turbo Boost Technology		2.0	
Intel® vPro Technology		Yes	
Intel® Hyper-Threading Technology	P	Yes	
Intel® Virtualization Technology (VT-x)	P	Yes	
Intel® Virtualization Technology for Directed I/O (VT-d)	P	Yes	

Intel® Trusted Execution Technology	Yes
AES New Instructions	Yes
Intel® 64	Yes
Idle States	Yes
Enhanced Intel SpeedStep® Technology	P Yes
Intel® Demand Based Switching	Yes
Thermal Monitoring Technologies	Yes
Intel® Flex Memory Access	Yes
Execute Disable Bit	Yes

ORDERING AND SPEC INFORMATION

Ordering and Spec Information

Intel® Xeon® Processor E5-2620 (15M Cache, 2.00 GHz, 7.20 GT/s

Intel® QPI) FC-LGA10, Tray

Socket	Step	Step TDP	Ordering Code	Spec Code	VT-x	RCP
FCLGA2011	C2	95 W	CM8062101048401	SR0KW	Yes	\$406

The Recommended Customer Price ("RCP") is pricing guidance for Intel products. Prices are for direct Intel customers 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. 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.

Enabling Execute Disable Bit functionality requires a PC with a processor with Execute Disable Bit capability and a supporting operating system. Check with your PC manufacturer on whether your system delivers Execute Disable Bit functionality.

[&]quot;Announced" SKUs are not yet available. Please refer to the Launch Date for market availability.

64-bit computing on Intel® architecture requires a computer system with a processor, chipset, BIOS, operating system, device drivers and applications enabled for Intel® 64 architecture. Processors will not operate (including 32-bit operation) without an Intel 64 architecture-enabled BIOS. Performance will vary depending on your hardware and software configurations. Consult with your system vendor for more information.

Hyper-Threading Technology (HT Technology) requires a computer system with an Intel® processor supporting HT Technology and an HT Technology enabled chipset, BIOS and operating system. Performance will vary depending on the specific hardware and software you use. See www.intel.com/products/ht/hyperthreading_more.htm for more information including details on which processors support HT Technology.

Intel® Virtualization Technology requires a computer system with a processor, chipset, BIOS, virtual machine monitor (VMM) and for some uses, certain platform software, enabled for it. Functionality, performance or other benefit will vary depending on hardware and software configurations. Intel Virtualization Technology-enabled VMM applications are currently in development.

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/products/processor_number for details.

System and Maximum TDP is based on worst case scenarios. Actual TDP may be lower if not all I/Os for chipsets are used.

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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.

Max Turbo Frequency refers to the maximum single-core frequency that can be achieved with Intel® Turbo Boost Technology, which requires a PC with a processor with Intel Turbo Boost Technology capability. Intel Turbo Boost Technology performance varies depending on hardware, software, and overall system configuration. Check with your PC manufacturer on whether your system delivers 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