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	eon® Processor E5-4650 ache, 2.70 GHz, 8.00 GT/s Int	el® QPI)	Add to Compare				
	SPECIFICATIONS		RELATED PRODUCTS				
SPECIFICATIONS	Essentials		Intel® Xeon® Processor E5				
Essentials Memory Specifications	Status	Launched	Family				
Expansion Options	Launch Date	Q2'12	Intel® Xeon® Processor E5 4600 Product Family				
Package Specifications	Processor Number	······					
Advanced Technologies		# of Cores 8					
Intel® Data Protection Technology		# of Threads 16					
Intel® Platform Protection Technology		Clock Speed 2.7 GHz					
rechnology		Max Turbo Frequency 3.3 GHz					
COMPATIBLE PRODUCTS	Intel® Smart Cache	20 MB	Export Full Specifications				
PRODUCT IMAGES	Intel® QPI Speed	8 GT/s	Search Distributors				
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STEPPINGS	# of QPI Links	······································					
	Instruction Set	64-bit	Search all of intel.com				
	Instruction Set Extensions	AX					
	Embedded Options Available	No No	PCN/MDDS Information				
	Lithography	32 nm	SR0QR 920357: PCN MDDS				
	Scalability	S4S	921537: PCN MDDS				
	MaxTDP	130 W					
	MD Voltage Range	0.6V-1.35V					
	Recommended Customer Price	BOX: \$3620.00					

Memory Specifications	
Max Memory Size (dependent on memory type)	384 GB
Memory Types	DDR3-800/1066/1333/1600
# of Memory Channels	4
Max Memory Bandwidth	51.2 GB/s
ECC Memory Supported ±) Yes

Expansion Options						
PCI Express Revision	3.0					
Max# of PCI Express Lanes	40					

Package Specifications					
Max CPU Configuration	4				
Package Size	52.5mm x45.0mm				
Sockets Supported	FCLGA2011				
Low Halogen Options Available	See MDDS				

Advanced Technologies		
Intel® Turbo Boost Technology‡		2.0
Intel® vPro Technology ‡	2	No
Intel® Hyper-Threading Technology‡	Q	Yes
Intel® Virtualization Technology (VT-x) ‡	2	Yes
Intel® Virtualization Technology for Directed I/O (d) \ddagger	(VT-	Yes
Intel® VT-x with Extended Page Tables (EPT) ‡		Yes
Intel® 64 ±	2	Yes
Idle States		Yes
Enhanced Intel SpeedStep® Technology	Q	Yes
Intel® Demand Based Switching	2	Yes
Thermal Monitoring Technologies		Yes
Intel® Flex Memory Access		No
Intel® Identity Protection Technology‡		No

Intel® Data Protection Technology							
AES New Instructions							

Intel® Platform Protection Technology

Trusted Execution Technology‡

Execute Disable Bit ‡

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"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, i7-2630QMi7-2635QM, i7-2670QMi7-2675QM, i5-2430Mi5-2415M, Hease contact OEM for the BIOS that includes the latest Processor configuration update.

‡ This feature may not be available on all computing systems. Rease 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-VIM, 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/ for more information.

The Recommended Oustomer Price ("ROP") 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.

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/OFRs) 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.

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