



# Intel® Core™ i7-4860EQ Processor

6M Cache, up to 3.20 GHz

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## Essentials

⬇ Export specifications

Product Collection	4th Generation Intel® Core™ i7 Processors
Code Name	Products formerly Crystal Well
Vertical Segment	Embedded
Processor Number	i7-4860EQ
Status	Launched
Launch Date	Q3'13
Lithography	22 nm
Recommended Customer Price	

## Performance

# of Cores	4
# of Threads	8
Processor Base Frequency	1.80 GHz
Max Turbo Frequency	3.20 GHz
Cache	6 MB SmartCache
Bus Speed	5 GT/s DMI
TDP	47 W

## Supplemental Information







Embedded Options Available	No
Datasheet	<a href="#">View now</a>

## Memory Specifications




Max Memory Size (dependent on memory type)	32 GB
Memory Types	DDR3L 1333/1600
Max # of Memory Channels	2
Max Memory Bandwidth	25.6 GB/s
ECC Memory Supported <sup>†</sup>	Yes

## Processor Graphics



Processor Graphics <sup>†</sup>	Intel® Iris™ Pro Graphics 5200
Graphics Base Frequency	750 MHz

Graphics Max Dynamic Frequency 	1.00 GHz
Graphics Output 	eDP/DP/HDMI/VGA
Intel® Quick Sync Video 	Yes
Intel® InTru™ 3D Technology 	Yes
Intel® Flexible Display Interface (Intel® FDI) 	Yes
Intel® Clear Video HD Technology 	Yes
# of Displays Supported <sup>‡</sup>	3














## Expansion Options

PCI Express Revision 	3.0
PCI Express Configurations <sup>‡</sup> 	Up to 1x16, 2x8, 1x8 2x4
Max # of PCI Express Lanes 	16






## Package Specifications

Sockets Supported 	FCBGA1364
Max CPU Configuration	1
T <sub>JUNCTION</sub> 	100°C
Package Size	37.5mm x 32mm x 1.65mm
Low Halogen Options Available	See MDDS

## Advanced Technologies

Intel® Turbo Boost Technology <sup>‡</sup> 	2.0
Intel® vPro™ Technology <sup>‡</sup> 	Yes
Intel® Hyper-Threading Technology <sup>‡</sup> 	Yes
Intel® Virtualization Technology (VT-x) <sup>‡</sup> 	Yes
Intel® Virtualization Technology for Directed I/O (VT-d) <sup>‡</sup> 	Yes
Intel® VT-x with Extended Page Tables (EPT) <sup>‡</sup> 	Yes
Intel® 64 <sup>‡</sup> 	Yes
Instruction Set 	64-bit
Instruction Set Extensions 	SSE4.1/4.2, AVX 2.0
Idle States 	Yes
Enhanced Intel SpeedStep® Technology 	Yes
Thermal Monitoring Technologies 	Yes
Intel® Identity Protection Technology <sup>‡</sup> 	Yes

## Security & Reliability

Intel® AES New Instructions 	Yes
Secure Key 	Yes
Intel® Trusted Execution Technology <sup>‡</sup> 	Yes
Execute Disable Bit <sup>‡</sup> 	Yes
Anti-Theft Technology 	Yes

## More support options for Intel® Core™ i7-4860EQ Processor (6M Cache, up to 3.20 GHz)



Product Support



Downloads and Software



Support Community



Warranty and Replacement



### Need more help?

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Refer to Datasheet for formal definitions of product properties and features.

"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, i7-2630QM/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.

‡ 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.

"Conflict free" and "conflict-free" means "DRC conflict free", which is defined by the U.S. Securities and Exchange Commission rules to mean products that do not contain conflict minerals (tin, tantalum, tungsten and/or gold) that directly or indirectly finance or benefit armed groups in the Democratic Republic of the Congo (DRC) or adjoining countries. Intel also uses the term "conflict-free" in a broader sense to refer to suppliers, supply chains, smelters and refiners whose sources of conflict minerals do not finance conflict in the DRC or adjoining countries. Intel processors manufactured before January 1, 2013 are not confirmed conflict free. The conflict free designation refers only to product manufactured after that date. For Intel Boxed Processors, the conflict free designation refers to the processor only, not to any additional included accessories, such as heatsinks/coolers.

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/](http://www.intel.com/technology/turboboost/) for more information.

The Recommended Customer Price ("RCP") is pricing guidance for Intel products. Prices are for direct Intel customers, typically represent 1,000-unit purchase quantities, 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. If sold in bulk, price represents individual unit. 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/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.

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.

