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Intel® Core™ i7-4701EQ Processor (6M Cache, up to 3.40 GHz)

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SPECIFICATIONS	
Essentials	
Status	Launched
Launch Date	Q3'13
Processor Number	i7-4701EQ
# of Cores	4
# of Threads	8
Clock Speed	2.4 GHz
Max Turbo Frequency	3.4 GHz
Cache	6 MB
DMI	5 GT/s
Instruction Set	64-bit
Instruction Set Extensions	SSE 4.1/4.2, AVX 2.0
Embedded Options Available	No
Lithography	22 nm
Scalability	1S Only
Max TDP	47 W
Recommended Customer Price	
Memory Specifications	
Max Memory Size (dependent on memory type)	32 GB
Memory Types	DDR3L-1333,1600
# of Memory Channels	2
Max Memory Bandwidth	25.6 GB/s
ECC Memory Supported †	Yes
Graphics Specifications	
Processor Graphics †	Intel® HD Graphics 4600
Graphics Base Frequency	400 MHz
Graphics Max Dynamic Frequency	1 GHz
Graphics Output	eDP/DP/HDMI/VGA
Intel® Quick Sync Video	Yes
Intel® InTru™ 3D Technology	Yes
Intel® Insider™	Yes
Intel® Wireless Display	Yes
Intel® Flexible Display Interface (Intel® FDI)	Yes
Intel® Clear Video HD Technology	Yes
# of Displays Supported †	3
Expansion Options	
PCI Express Revision	3.0
PCI Express Configurations †	Up to 1x16, 2x8, 1x8 2x4
Max # of PCI Express Lanes	16
Package Specifications	
Max CPU Configuration	1

- RELATED PRODUCTS**
- 4th Generation Intel® Core™ i7 Processors
- Intel® Core™ i7-4700 Mobile Processor Series
- Products formerly Haswell

- QUICK LINKS**
- No Datasheet Available
- Export Full Specifications
- Search Distributors
- Software Downloads
- Support Overview
- Search all of intel.com

PCN/MDDS INFORMATION

SR1H1
930700: PCN | MDDS

JUNCTION	100
Package Size	37.5mm x 32mm x 1.6mm
Graphics and IMC Lithography	22 nm
Sockets Supported	FCBGA1364
Low Halogen Options Available	See MDDS
Advanced Technologies	
Intel® Turbo Boost Technology ‡	2.0
Intel® vPro Technology ‡	<input type="checkbox"/> Yes
Intel® Hyper-Threading Technology ‡	<input type="checkbox"/> Yes
Intel® Virtualization Technology (VT-x) ‡	<input type="checkbox"/> Yes
Intel® Virtualization Technology for Directed I/O (VT-d) ‡	<input type="checkbox"/> Yes
Intel® VT-x with Extended Page Tables (EPT) ‡	<input type="checkbox"/> Yes
Intel® TSX-NI	<input type="checkbox"/> Yes
Intel® 64 ‡	<input type="checkbox"/> Yes
Intel® My WiFi Technology	<input type="checkbox"/> Yes
Idle States	<input type="checkbox"/> Yes
Enhanced Intel SpeedStep® Technology	<input type="checkbox"/> Yes
Thermal Monitoring Technologies	No
Intel® Identity Protection Technology ‡	<input type="checkbox"/> Yes
Intel® Stable Image Platform Program (SIPP)	No
Intel® Data Protection Technology	
AES New Instructions	<input type="checkbox"/> Yes
Secure Key	<input type="checkbox"/> Yes
Intel® Platform Protection Technology	
Trusted Execution Technology ‡	<input type="checkbox"/> Yes
Execute Disable Bit ‡	<input type="checkbox"/> Yes
Anti-Theft Technology	<input type="checkbox"/> Yes

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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, i7-2630QM/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.

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 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.

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.

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