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Intel® Atom™ Processor E3845 (2M Cache, 1.91 GHz)

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#### SPECIFICATIONS

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#### SPECIFICATIONS

Essentials	
Status	Launched
Launch Date	Q4'13
Processor Number	E3845
# of Cores	4
# of Threads	4
Clock Speed	1.91 GHz
Cache	2 MB
Instruction Set	64-bit
Embedded Options Available	Yes
Lithography	22 nm
MaxTDP	10 W
Recommended Customer Price	

Memory Specifications	
Max Memory Size (dependent on memory type)	8 GB
Memory Types	DDR3L-1333
# of Memory Channels	2
ECC Memory Supported ‡	Yes

Graphics Specifications	
Processor Graphics ‡	Intel® HD Graphics
Graphics Base Frequency	542 MHz
Graphics Burst Frequency	792 MHz
# of Displays Supported ‡	2

Expansion Options	
PCI Express Revision	2.0
PCI Express Configurations ‡	x4, x2, x1
Max# of PCI Express Lanes	4

I/O Specifications	
USB Revision	2.0, 3.0
Total # of SATA Ports	2
Integrated LAN	No
Integrated IDE	No
UART	Yes

Package Specifications	
TJUNCTION	-40°C to 110°C
Package Size	25mm x 27mm
Sockets Supported	FCBGA1170

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### RELATED PRODUCTS

- Intel® Atom™ Processor
- Intel® Atom™ Processor E3800 Series
- Products formerly Bay Trail



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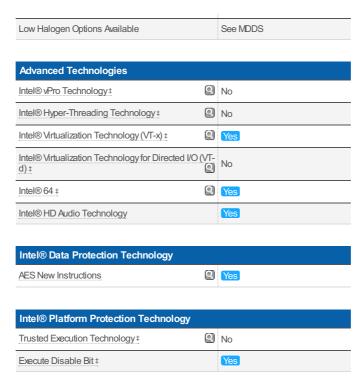
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#### PCN/MDDS Information

SR1RE

932052: PCN | MDDS





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"Announced" SKUs are not yet available. Hease 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, i5-2430Mi5-2435M, i5-2410Mi5-2415M. Rease contact OEMfor the BIOS that includes the latest Processor configuration update.

‡ This feature may not be available on all computing systems. Hease 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, platformsoftware, 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-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 ("RQP") 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 RQP does not constitute a formal pricing offer from Intel. Rease 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 <a href="http://www.intel.com/content/www/us/en/processors/processor-numbers.html">http://www.intel.com/content/www/us/en/processors/processor-numbers.html</a> for details.

Processors that support 64-bit computing on Intel® architecture require an Intel 64 architecture-enabled BIOS.

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