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## Intel® Atom™ Processor E645CT



Graphics Base Frequency

Enhanced Intel SpeedStep® Technology

compatibility of the products listed. Please contact system vendor for more information on specific products or systems.

Specifications  - Essentials				
Launch Date		Q4'10		
Processor Number		E645CT		
L2 Cache		512 KB		
PCI Express*		2,5 GT/s		
Instruction Set		32-bit		
Embedded Options Available	Q	No		
Lithography		45 nm		
Recommended Customer Price		N/A		
Datasheet		Link		
			-	
- Performance				
# of Cores		4		

Specifications		Related Products	
Essentials		Intel® Atom™ Processor	
Status	End of Life	Intel® Atom™ Processor E600 Series	
Launch Date	Q4'10	Products formerly	
Processor Number	E645CT	Stellarton	
L2 Cache	512 KB	Quick Links	
PCI Express*	2,5 GT/s		
Instruction Set	32-bit	Export Full Specifications >	
Embedded Options Available	No.	Search Distributors >	
Lithography	45 nm	Software Downloads > Support Overview >	
Recommended Customer Price	N/A	Search all of intel.com >	
Datasheet	Link		
		PCN/MDDS Information	
- Performance	SLH93		
# of Cores	1	908902; PCN   MDDS	
# of Threads	2	916387: PCN	
Processor Base Frequency	1 GHz		
TDP	7 W		
Memory Specifications			
Max Memory Size (dependent on memory type)	2 GB		
Memory Types	DDR2 800		
Max # of Memory Channels	1		
ECC Memory Supported #	No.		
Graphics Specifications			
Processor Graphics #	Integrated		

320 MHz

 Expansion Options x1, root complex only PCI Express Configurations \* 2 Max # of PCI Express Lanes Package Specifications Package Size 37.5mm x 37.5mm Sockets Supported FCBGA1466 Low Halogen Options Available See MDDS Advanced Technologies Intel® Turbo Boost Technology \* No. Intel® Hyper-Threading Technology \* Intel® Virtualization Technology (VT-x) \*

All information provided is subject to change at any time, without notice. Intel may make changes to manufacturing life cycle, specifications, and product descriptions at any time, without notice. The information herein is provided "as-is" and Intel does not make any representations or warranties whatsoever regarding accuracy of the information, nor on the product features, availability, functionality, or

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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-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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