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Intel® Atom™ Processor E645CT (512K Cache, 1.0 GHz)

Max # of Memory Channels

ECC Memory Supported *

Specifications Essentials Performance Memory Specifications Graphics Specifications Expansion Options Package Specifications Advanced Technologies Compatible Products Product Images Ordering / sSpecs / Steppings

Essentials		
Status	End of Life	
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	

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Performance	
# of Cores	1
# of Threads	2
Processor Base Frequency	1 GHz
TDP	7 W
Memory Specifications	
Max Memory Size (dependent on memory type)	2 GB
Memory Types	DDR2 800

Graphics Specifications	
Processor Graphics #	Integrated
Graphics Base Frequency	320 MHz
Expansion Options	
PCI Express Configurations *	x1, root complex only
Max # of PCI Express Lanes	2
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 *	Q Yes
Intel® Virtualization Technology (VT-x) *	Yes

Q No

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Q Yes

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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.

Enhanced Intel SpeedStep® Technology

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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