Support Home > Product Specifications > Processors

Search specifications





Intel Atom® Processor E3827

Graphics Burst Frequency

1M Cache, 1.75 GHz

Add to Compare

792 MHz

Specifications

Essentials

Performance

Supplemental Information

Memory Specifications

Processor Graphics

Expansion Options

I/O Specifications

Package Specifications

Advanced Technologies

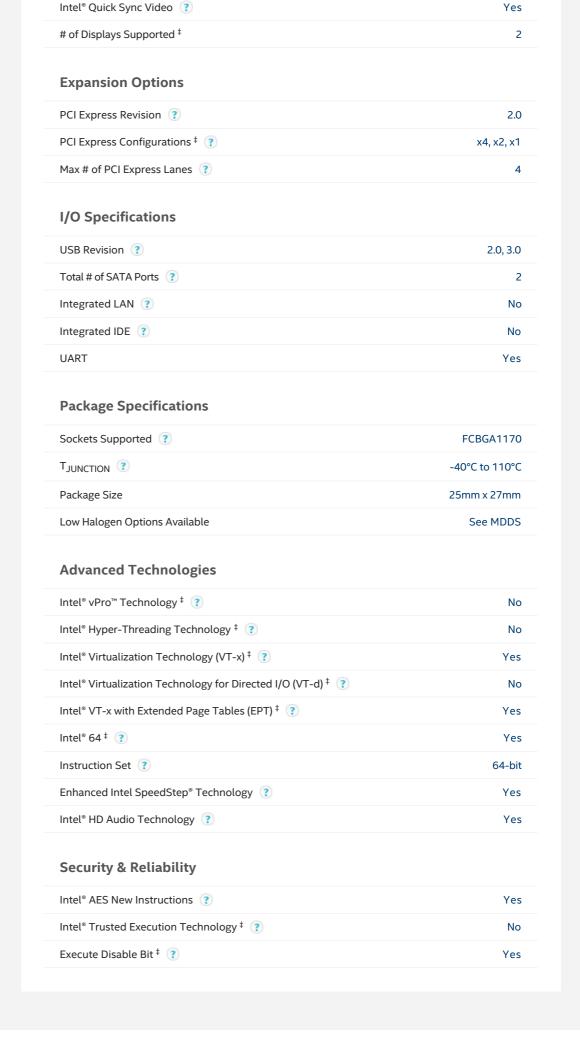
Security & Reliability

Ordering and Compliance

Product Images

Downloads and Software

Essentials	Export specification
Product Collection	Intel® Atom™ Processor E Series
Code Name	Products formerly Bay Trail
Vertical Segment	Embedded
Processor Number	E3827
Status	Launched
Launch Date 🕐	Q4'13
Lithography 💽	22 nm
Recommended Customer Price 🕝	
Use Automotive, Industrial Commercial Conditions ?	Temp, Industrial Extended Temp, Embedded Broad Market Commercial Temp
Performance	
# of Cores ?	2
# of Threads 🔞	2
Processor Base Frequency ?	1.75 GHz
Cache ?	1 MB L2
TDP ?	8 W
Supplemental Information	
Embedded Options Available 👔	Yes
Datasheet	View now
Memory Specifications	
Max Memory Size (dependent on memory type) ?	8 GB
Memory Types 🔞	DDR3L 1333
Max # of Memory Channels ?	2
ECC Memory Supported [‡] ?	Yes
Processor Graphics	
Processor Graphics † ? Intel® HD Grap	ohics for Intel Atom® Processor Z3700 Series
Graphics Base Frequency 🕐	542 MHz



More support options for Intel Atom® Processor E3827 (1M Cache, 1.75 GHz)



Downloads and Software







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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.

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, 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.



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