



## Intel Atom® Processor E3827

1M Cache, 1.75 GHz

Specifications

Product Images

Ordering and Compliance

### Ordering and spec information

#### Intel Atom® Processor E3827 (1M Cache, 1.75 GHz) FC-BGA13F, Tray

Spec Code	SR1X7
Ordering Code	FH8065301487918
Step	D0
RCP	\$41.00

#### Intel Atom® Processor E3827 (1M Cache, 1.75 GHz) FC-BGA13F, Tray

Spec Code	SR3UV
Ordering Code	FH8065301487918
Step	D1
RCP	\$41.00

### Retired and discontinued

#### Intel Atom® Processor E3827 (1M Cache, 1.75 GHz) FC-BGA13F, Tray

Spec Code	SR1RD
Ordering Code	FH8065301487916
Step	B3

### Trade compliance information

ECCN	5A992CN3
CCATS	G143235
US HTS	8542310001

### PCN/MDDS Information

SR1X7

935346

PCN | MDDS

**SR3UV**

962764

MDDS

**SR1RD**

932051

PCN | MDDS

## Downloads and Software

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

Intel classifications are for informational purposes only and consist of Export Control Classification Numbers (ECCN) and Harmonized Tariff Schedule (HTS) numbers. Any use made of Intel classifications are without recourse to Intel and shall not be construed as a representation or warranty regarding the proper ECCN or HTS. Your company as an importer and/or exporter is responsible for determining the correct classification of your transaction.

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/](http://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.

Intel Atom® Processor E3827  
1M Cache, 1.75 GHz

Add to Compare

- 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 specifications](#)

Product Collection	Intel® Atom™ Processor E Series
Code Name	Products formerly Bay Trail
Vertical Segment	Embedded
Processor Number	E3827
Status	Launched
Launch Date <a href="#">?</a>	Q4'13
Lithography <a href="#">?</a>	22 nm
Recommended Customer Price <a href="#">?</a>	\$41.00
Use Conditions <a href="#">?</a>	Automotive, Industrial Commercial Temp, Industrial Extended Temp, Embedded Broad Market Commercial Temp

**Performance**

# of Cores <a href="#">?</a>	2
# of Threads <a href="#">?</a>	2
Processor Base Frequency <a href="#">?</a>	1.75 GHz
Cache <a href="#">?</a>	1 MBL2
TDP <a href="#">?</a>	8 W

**Supplemental Information**

Embedded Options Available <a href="#">?</a>	Yes
Datasheet	<a href="#">View now</a>

**Memory Specifications**

Max Memory Size (dependent on memory type) <a href="#">?</a>	8 GB
Memory Types <a href="#">?</a>	DDR3L 1333
Max # of Memory Channels <a href="#">?</a>	2
ECC Memory Supported <a href="#">?</a>	Yes

**Processor Graphics**

Processor Graphics <a href="#">?</a>	Intel® HD Graphics for Intel Atom® Processor Z3700 Series
Graphics Base Frequency <a href="#">?</a>	542 MHz
Graphics Burst Frequency	792 MHz
Intel® Quick Sync Video <a href="#">?</a>	Yes
# of Displays Supported <a href="#">?</a>	2

**Expansion Options**

PCI Express Revision <a href="#">?</a>	2.0
PCI Express Configurations <a href="#">?</a>	x4, x2, x1
Max # of PCI Express Lanes <a href="#">?</a>	4

**I/O Specifications**

USB Revision <a href="#">?</a>	2.0, 3.0
Total # of SATA Ports <a href="#">?</a>	2
Integrated LAN <a href="#">?</a>	No
Integrated IDE <a href="#">?</a>	No
UART	Yes

**Package Specifications**

Sockets Supported <a href="#">?</a>	FCBGA1170
T <sub>JUNCTION</sub> <a href="#">?</a>	-40°C to 110°C
Package Size	25mm x 27mm
Low Halogen Options Available	See MDDS

**Advanced Technologies**

Intel® vPro™ Technology <a href="#">?</a>	No
Intel® Hyper-Threading Technology <a href="#">?</a>	No
Intel® Virtualization Technology (VT-x) <a href="#">?</a>	Yes
Intel® Virtualization Technology for Directed I/O (VT-d) <a href="#">?</a>	No
Intel® VT-x with Extended Page Tables (EPT) <a href="#">?</a>	Yes
Intel® 64 <a href="#">?</a>	Yes
Instruction Set <a href="#">?</a>	64-bit
Enhanced Intel SpeedStep® Technology <a href="#">?</a>	Yes
Intel® HD Audio Technology <a href="#">?</a>	Yes

**Security & Reliability**

Intel® AES New Instructions <a href="#">?</a>	Yes
Intel® Trusted Execution Technology <a href="#">?</a>	No
Execute Disable Bit <a href="#">?</a>	Yes

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

- Product Support
- Downloads and Software
- Support Community
- Warranty and Replacement

Need more help?  
Contact support

Give Feedback

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

Intel classifications are for informational purposes only and consist of Export Control Classification Numbers (ECCN) and Harmonized Tariff Schedule (HTS) numbers. Any use made of Intel classifications are without recourse to Intel and shall not be construed as a representation or warranty regarding the proper ECCN or HTS. Your company as an importer and/or exporter is responsible for determining the correct classification of your transaction.

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, (7-2630QM/7-2633QM, 17-2670QM/7-2675QM, 15-2430M/15-2433M, 15-2410M/15-2413M). Please contact OEM for the BIOS and includes the latest Processor configuration update.

1 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, VMX 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/baytrail/www/us/en/architecture-and-technology/hyper-threading/hyper-threading-technology.html#qplw=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/](http://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/CFR)s and PVC in the final product. Intel components as well as purchased components on the finished assembly meet JE-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/processors-numbers.html> for details.

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

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for CPU - Central Processing Units category:*

*Click to view products by Intel manufacturer:*

Other Similar products are found below :

[D8751H](#) [AT80612003090AAS LBWJ](#) [N87C51](#) [IVPX7225-RTM-1](#) [CM8063401286600S R1AK](#) [CM8063501374802S R1A5](#)  
[CM8063501375101S R1A8](#) [MATXM-CORE-411-HTSNK](#) [BGSF 1717MN26 E6327](#) [BX80621E52620 S R0KW](#) [IVPX7225-02250813L](#)  
[D8086-2](#) [CM8063401293902S R1A4](#) [CM8063501374901S R1A6](#) [CM8066201928505 SR2HT](#) [CM8063501293200S R1A0](#)  
[CM8062301046008S R060](#) [ATLASEDGE.1](#) [AV8063801129600S R10F](#) [R0K5ML001SS00BR](#) [CM8066201921712S R2LF](#)  
[CM8064601467102S R152](#) [CM8063701094000S R0TA](#) [CM8063501375800S R1AX](#) [CM8063401376400S R1A9](#) [CM8063401293802S R1A3](#)  
[CM8063401286102S R19S](#) [CM8062107185405S R0KM](#) [CM8066002032201S R2R6](#) [CM8063501288301S R1AN](#) [COMX-300-HSP](#) [RTM-](#)  
[ATCA-7360](#) [96MPI7-3.4-8M11T](#) [96MPP-2.3-3M10T](#) [96MPI7-3.4-8M11T1](#) [96MPXE-2.0-15M20T](#) [96MPI5-3.0-6M10T](#) [96MPI5S-2.3-](#)  
[6M11T1](#) [FJ8066401715827S R2KG](#) [AFPC205 S R1Z1](#) [DNCE2510 S LHCM](#) [FJ8066401715843S R2KH](#) [DNCE2530G S LHCY](#)  
[DNCE2510GU S LHCW](#) [CM8066201935807S R2LM](#) [FH8065503554000S R3H4](#) [FH8065301615104S R1UU](#) [CM8066201934909S R2LK](#)  
[FJ8067702739633S R340](#) [CM8068403360212 SR3XB](#)