



Intel Atom® Processor E3825

1M Cache, 1.33 GHz

Specifications

Product Images

Ordering and Compliance

Ordering and spec information

Intel Atom® Processor E3825 (1M Cache, 1.33 GHz) FC-BGA13F, Tray

Spec Code	SR1X9
Ordering Code	FH8065301567313
Step	D0
RCP	\$34.00

Intel Atom® Processor E3825 (1M Cache, 1.33 GHz) FC-BGA13F, Tray

Spec Code	SR3UZ
Ordering Code	FH8065301567313
Step	D1
RCP	\$34.00

Retired and discontinued

Intel Atom® Processor E3825 (1M Cache, 1.33 GHz) FC-BGA13F, Tray

Spec Code	SR1RB
Ordering Code	FH8065301567311
Step	B3

Trade compliance information

ECCN	5A992CN3
CCATS	G143235
US HTS	8542310001

PCN/MDDS Information

SR1X9

935359

PCN | MDDS

SR3UZ

962768

MDDS

SR1RB

932049

PCN | MDDS

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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Essentials [Export specifications](#)

Product Collection	Intel® Atom™ Processor E Series
Code Name	Products formerly Bay Trail
Vertical Segment	Embedded
Processor Number	E3825
Status	Launched
Launch Date	Q4'13
Lithography	22 nm
Recommended Customer Price	\$34.00
Use Conditions	Automotive, Industrial Commercial Temp, Industrial Extended Temp, Embedded Broad Market Commercial Temp

Performance

# of Cores	2
# of Threads	2
Processor Base Frequency	1.33 GHz
Cache	1 MBL2
TDP	6 W

Supplemental Information

Embedded Options Available	Yes
Datasheet	View now

Memory Specifications

Max Memory Size (dependent on memory type)	8 GB
Memory Types	DDR3L 1067
Max # of Memory Channels	1
ECC Memory Supported	Yes

Processor Graphics

Processor Graphics	Intel® HD Graphics for Intel Atom® Processor Z3700 Series
Graphics Base Frequency	533 MHz
Graphics Burst Frequency	533 MHz
Intel® Quick Sync Video	Yes
# 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

Sockets Supported	FCBGA1170
T _{JUNCTION}	-40°C to 110°C
Package Size	25mm x 27mm
Low Halogen Options Available	See MDDS

Advanced Technologies

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

Security & Reliability

Intel® AES New Instructions	Yes
Intel® Trusted Execution Technology	No
Execute Disable Bit	Yes

More support options for Intel Atom® Processor E3825 (1M Cache, 1.33 GHz)

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

Need more help?
Contact support

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[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](#)
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[FJ8067702739633S R340](#) [CM8068403360212 SR3XB](#)