

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	В3			
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.

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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 E3825 1M Cache, 1.33 GHz Specifications Essentials Performance Supplemental Information Memory Specifications Processor Graphics Expansion Options I/O Specifications Package Specifications Advanced Technologies Security & Reliability

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Essentials	Export specific	
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 MB L2	
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 Ser	
Graphics Base Frequency 👔	533 MHz	
Graphics Burst Frequency	533 MHz	
Intel® Quick Sync Video 👔	Yes	
# of Displays Supported ¹	2	
Expansion Options		
PCI Express Revision (?)	2.0	
PCI Express Configurations [‡] ?	20 x4.x2.x1	
Max # of PCI Express Lanes ?	4	
Place work of Express Carres (1)		
I/O Specifications		
USB Revision 3	2.0, 3.0	
Total # of SATA Ports (?)	2	
Integrated LAN (?)	No	
Integrated IDE (?)	No	
UART	Yes	
Package Specifications		
Sockets Supported 👔	FCBGA1170	
TJUNCTION ?	-40°C to 110°C	
Package Size	25mm x 27mm	
Low Halogen Options Available		
	See MDDS	
	See MDDS	
Advanced Technologies	See MDDS	
Advanced Technologies		
Advanced Technologies Intel* vPro" Technology ¹ (?) Intel* Hyper-Threading Technology ¹ (?)	No	
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More support options for Intel Atom® Processor E3825 (1M Cache, 1.33 GHz)

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