



# Intel Atom® Processor C3808

12M Cache, up to 2.0 GHz

Add to Compare

Specifications

Essentials

Performance

Supplemental Information

Memory Specifications

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 C Series
Code Name	Products formerly Denverton
Vertical Segment	Server
Processor Number	C3808
Status	Launched
Launch Date ?	Q3'17
Lithography ?	14 nm
Recommended Customer Price ?	
Use Conditions ?	Communications

Performance

# of Cores ?	12
# of Threads ?	12
Processor Base Frequency ?	2.00 GHz
Max Turbo Frequency ?	2.00 GHz
Cache ?	12 MB
# of QPI Links ?	0
# of UPI Links ?	0
TDP ?	25 W




Supplemental Information

Embedded Options Available ?	Yes
Datasheet	View now
Product Brief	View now




Memory Specifications

Max Memory Size (dependent on memory type) ?	256 GB
Memory Types ?	DDR4: 2133
Max # of Memory Channels ?	2
ECC Memory Supported ‡ ?	Yes




Expansion Options

PCI Express Revision 	3
PCI Express Configurations <sup>‡</sup> 	x2,x4,x8
Max # of PCI Express Lanes 	16









## I/O Specifications

# of USB Ports	8
USB Revision 	3
Total # of SATA Ports 	16
Integrated LAN 	4x10/2.5/1 GbE
Max # of SATA 6.0 Gb/s Ports	16






## Package Specifications

Sockets Supported 	FCBGA1310
Max CPU Configuration	1
T <sub>CASE</sub> 	86°C
T <sub>JUNCTION</sub> 	100°C
Package Size	34 mm x 28 mm

## Advanced Technologies

Intel® Turbo Boost Technology <sup>‡</sup> 	No
Secure Boot 	Yes
Intel® Hyper-Threading Technology <sup>‡</sup> 	No
Intel® Virtualization Technology (VT-x) <sup>‡</sup> 	Yes
Intel® Virtualization Technology for Directed I/O (VT-d) <sup>‡</sup> 	Yes
Intel® VT-x with Extended Page Tables (EPT) <sup>‡</sup> 	Yes
Instruction Set 	64-bit
Integrated Intel® QuickAssist Technology 	Yes

## Security & Reliability

Intel® AES New Instructions 	Yes
Secure Key 	Yes
Intel® Software Guard Extensions (Intel® SGX) 	No
Execute Disable Bit <sup>‡</sup> 	Yes
Intel® OS Guard	Yes
Intel® Boot Guard 	No

More support options for Intel Atom® Processor C3808 (12M Cache, up to 2.0 GHz)





## 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 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.

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.



[Company Information](#) [Our Commitment](#) [Communities](#) [Investor Relations](#) [Contact Us](#)

[Newsroom](#) [Jobs](#)



[© Intel Corporation](#) | [Terms of Use](#) | [\\*Trademarks](#) | [Privacy](#) | [Cookies](#) | [Supply Chain Transparency](#) | [Site Map](#)