



Intel Atom® Processor C3508

8M Cache, up to 1.60 GHz

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Product Collection	Intel® Atom™ Processor C Series
Code Name	Products formerly Denverton
Vertical Segment	Server
Processor Number	C3508
Status	Launched
Launch Date ?	Q3'17
Lithography ?	14 nm
Use Conditions ?	Communications
?	

Performance

# of Cores ?	4
# of Threads ?	4
Processor Base Frequency ?	1.60 GHz
Max Turbo Frequency ?	1.60 GHz
Cache ?	8 MB
# of QPI Links ?	0
# of UPI Links ?	0
TDP ?	11.5 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: 1866
Max # of Memory Channels ?	2

Expansion Options

PCI Express Revision ?	3
PCI Express Configurations † ?	x2,x4,x8
Max # of PCI Express Lanes ?	8

I/O Specifications

# of USB Ports	8
USB Revision ?	3
Total # of SATA Ports ?	8
Integrated LAN ?	4x2.5/1 GbE
Max # of SATA 6.0 Gb/s Ports	8

Package Specifications

Sockets Supported ?	FCBGA1310
Max CPU Configuration	1
T _{CASE} ?	90°C
T _{JUNCTION} ?	100°C
Package Size	34 mm x 28 mm
Low Halogen Options Available	No

Advanced Technologies

Intel® Turbo Boost Technology † ?	No
Secure Boot ?	Yes
Intel® Hyper-Threading Technology † ?	No
Intel® Virtualization Technology (VT-x) † ?	Yes
Intel® Virtualization Technology for Directed I/O (VT-d) † ?	Yes
Intel® VT-x with Extended Page Tables (EPT) † ?	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 † ?	Yes
Intel® OS Guard	Yes
Intel® Boot Guard ?	No

More support options for Intel Atom® Processor C3508 (8M Cache, up to 1.60 GHz)



Product Support



Downloads and Software



Support Community



Warranty and Replacement



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Refer to Datasheet for formal definitions of product properties and features.

‡ 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.

System and Maximum TDP is based on worst case scenarios. Actual TDP may be lower if not all I/Os for chipsets are used.

"Announced" SKUs are not yet available. Please refer to the Launch Date for market availability.

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.

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.

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.

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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