



Intel Atom® Processor C3308

4M Cache, up to 2.10 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 | C3308 |
| Status | Launched |
| Launch Date ? | Q3'17 |
| Lithography ? | 14 nm |
| Recommended Customer Price ? | |
| Use Conditions ? | Communications |

Performance

| | |
|----------------------------|----------|
| # of Cores ? | 2 |
| # of Threads ? | 2 |
| Processor Base Frequency ? | 1.60 GHz |
| Max Turbo Frequency ? | 2.10 GHz |
| Cache ? | 4 MB |
| # of QPI Links ? | 0 |
| # of UPI Links ? | 0 |
| TDP ? | 9.5 W |




Supplemental Information

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




Memory Specifications

| | |
|--|------------|
| Max Memory Size (dependent on memory type) ? | 128 GB |
| Memory Types ? | DDR4: 1866 |
| Max # of Memory Channels ? | 1 |
| ECC Memory Supported ‡ ? | Yes |




Expansion Options

| | |
|---|-------|
| PCI Express Revision  | 3 |
| PCI Express Configurations [‡]  | x2,x4 |
| Max # of PCI Express Lanes  | 6 |









I/O Specifications

| | |
|---|-------------|
| # of USB Ports | 8 |
| USB Revision  | 3 |
| Total # of SATA Ports  | 6 |
| Integrated LAN  | 4x2.5/1 GbE |
| Max # of SATA 6.0 Gb/s Ports | 6 |






Package Specifications

| | |
|---|---------------|
| Sockets Supported  | FCBGA1310 |
| Max CPU Configuration | 1 |
| T _{CASE}  | 89°C |
| T _{JUNCTION}  | 100°C |
| Package Size | 34 mm x 28 mm |

Advanced Technologies

| | |
|---|--------|
| Intel® Turbo Boost Technology [‡]  | 2.0 |
| 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 C3308 (4M Cache, up to 2.10 GHz)





Need more help?

Contact support



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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.

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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