Search specifications

Intel Atom® Processor C3955

16M Cache, up to 2.40 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

Downloads and Software

Essentials   ⬇ Export specifications

Product Collection	Intel® Atom™ Processor C Series
Code Name	Products formerly Denverton
Vertical Segment	Server
Processor Number	C3955
Status	Launched
Launch Date ?	Q3'17
Lithography ?	14 nm
?	

Performance

# of Cores ?	16
# of Threads ?	16
Processor Base Frequency ?	2.10 GHz
Max Turbo Frequency ?	2.40 GHz
Cache ?	16 MB
# of QPI Links ?	0
# of UPI Links ?	0
TDP ?	32 W

Supplemental Information

Embedded Options Available ?	No
Datasheet	View now
Product Brief	View now

Memory Specifications

Max Memory Size (dependent on memory type) ?	256 GB
Memory Types ?	DDR4: 2400
Max # of Memory Channels ?	2
ECC Memory Supported ‡ ?	Yes

Expansion Options

PCI Express Revision ?	3
PCI Express Configurations ‡ ?	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_{CASE} ?	78°C
$T_{JUNCTION}$?	100°C
Package Size	34 mm x 28 mm
Low Halogen Options Available	No

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 ?	No

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

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.

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.

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.

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