



Intel Atom® Processor C2558

2M Cache, 2.40 GHz

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Essentials

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Product Collection	Intel® Atom™ Processor C Series
Code Name	Products formerly Rangeley
Vertical Segment	Embedded
Processor Number	C2558
Status	Launched
Launch Date 	Q3'13
Lithography 	22 nm
Recommended Customer Price 	
Use Conditions 	Communications

Performance

# of Cores 	4
# of Threads 	4
Processor Base Frequency 	2.40 GHz
Cache 	2 MB
TDP 	15 W

Supplemental Information

Embedded Options Available 	Yes
Product Brief	View now

Memory Specifications

Max Memory Size (dependent on memory type) 	64 GB
Memory Types 	DDR3/DDR3L 1600
Max # of Memory Channels 	2
Physical Address Extensions 	36-bit
ECC Memory Supported [‡] 	Yes

Expansion Options

PCI Express Revision 	2
PCI Express Configurations [‡] 	x1,x2,x4,x8,x16
Max # of PCI Express Lanes 	16

I/O Specifications

# of USB Ports	4
USB Revision 	2
Total # of SATA Ports 	6
Integrated LAN 	4x1 or 4x2.5 GbE
UART	2 Interfaces
Max # of SATA 6.0 Gb/s Ports	2

Package Specifications

Sockets Supported 	FCBGA1283
Package Size	34 mm x 28 mm

Advanced Technologies

Intel® Turbo Boost Technology [‡] 	No
Intel® Hyper-Threading Technology [‡] 	No
Intel® Virtualization Technology (VT-x) [‡] 	Yes
Intel® VT-x with Extended Page Tables (EPT) [‡] 	Yes
Intel® 64 [‡] 	Yes
Instruction Set 	64-bit
Integrated Intel® QuickAssist Technology 	Yes

Security & Reliability

Intel® AES New Instructions 	Yes
Execute Disable Bit [‡] 	Yes

More support options for Intel Atom® Processor C2558 (2M Cache, 2.40 GHz)



Product Support



Downloads and Software



Support Community



Warranty and Replacement



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Give Feedback

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.

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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.

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.



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