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# Intel Atom® Processor C2538

2M Cache, 2.40 GHz

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### Specifications

#### Essentials

Performance

Supplemental Information

**Memory Specifications** 

**Expansion Options** 

I/O Specifications

Package Specifications

Advanced Technologies

Security & Reliability

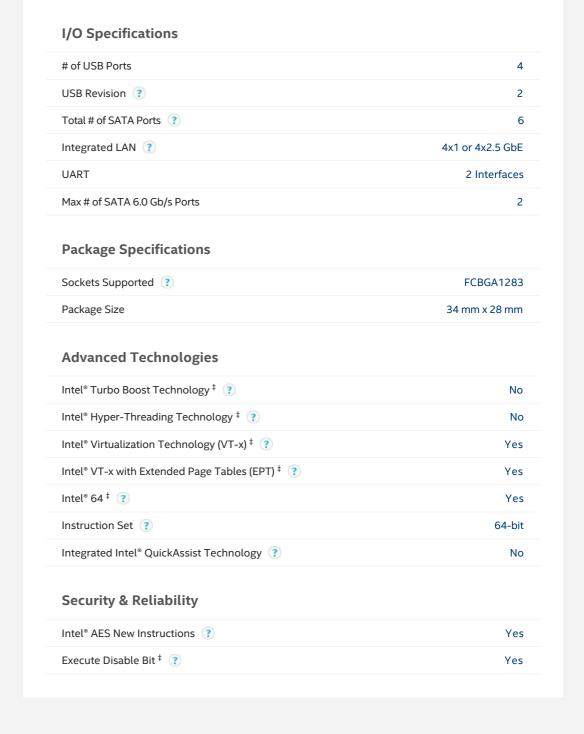
## Ordering and Compliance

#### **Product Images**

Downloads and Software

Essentials	Export specificati
Product Collection	Intel® Atom™ Processor C Series
Code Name	Products formerly Rangeley
Vertical Segment	Embedded
Processor Number	C2538
Status	Launched
Launch Date ?	Q3'13
Lithography ?	22 nm
Recommended Customer Price ?	
Use Conditions 🔞	Communications
Performance	
# of Cores ?	2
# 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	
DCLE D. 111	2
PCI Express Revision ?	_

Max # of PCI Express Lanes ?



More support options for Intel Atom® Processor C2538 (2M Cache, 2.40 GHz)





Downloads and Software



**Support Community** 



Warranty and Replacement



Need more help?

**Contact support** 



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 <a href="https://www.intel.com/technology/turboboost/">www.intel.com/technology/turboboost/</a> 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 <a href="http://www.intel.com/content/www/us/en/processors/processor-numbers.html">http://www.intel.com/content/www/us/en/processors/processor-numbers.html</a> for details.

Processors that support 64-bit computing on Intel® architecture require an Intel 64 architecture-enabled BIOS.



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