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Intel® Atom™ Processor C2758 (4M Cache, 2.40 GHz)

Specifications Essentials Performance **Memory Specifications Expansion Options** I/O Specifications Package Specifications Advanced Technologies Intel® Data Protection Technology Intel® Platform Protection Technology

Ordering / sSpecs / Steppings

Specifications			
- Essentials			
Status		Launched	
Launch Date		Q3'13	
Processor Number		C2758	
Cache		4 MB	
Instruction Set		64-bit	
Embedded Options Available	Q	Yes	
Lithography		22 nm	
Recommended Customer Price			

Recommended Customer Price	
- Performance	
# of Cores	8
# of Threads	8
Processor Base Frequency	2.4 GHz
TDP	20 W

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 ‡	Q	Yes		
Expansion Options				

PCI Express Revision	2
PCI Express Configurations ‡	x1, x2, x4, x8, x16
Max # of PCI Express Lanes	16
- I/O Specifications	
USB Revision	2
# of USB Ports	4

# Of USB Ports	4
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	
Package Size	34 mm x 28 mm

FCBGA1283

Low Halogen Options Available		See MDDS
Advanced Technologies		
Intel® Turbo Boost Technology ‡		No
inter Turbo Boost Technology		NO
Intel® Hyper-Threading Technology ‡	Q	No
Intel® Virtualization Technology (VT-x) ‡		Yes
Intol® V/T wwith Extended Dago Tables (EDT) ‡		Vos
Intel® VT-x with Extended Page Tables (EPT) ‡	4	Yes
Intel® 64 ‡	Q	Yes
		100
Intel® QuickAssist Technology		Yes
		_
Intel® Data Protection Technology		
Intel® AES New Instructions		Voc
intel® AES New Instructions	4	res

 Intel® Platform Protection Technology Yes Execute Disable Bit ‡

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correct classification of any item at the time of export. 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.

Sockets Supported

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.

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to the processor only, not to any additional included accessories, such as heatsinks/coolers. See http://www.intel.com/content/www/us/en/architecture-and-technology/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

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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.

Low Halogen: Applies only to brominated and chlorinated flame retardants (BFRs/CFRs) and PVC in the final product. Intel components as well as purchased components on the finished assembly meet JS-709 requirements, and the PCB / substrate meet IEC 61249-2-21 requirements. The replacement of halogenated flame retardants and/or PVC may not be better for the environment. 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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