



Intel® Core™ i3-2102 Processor
(3M Cache, 3.10 GHz)

Compare

Specifications Essentials Performance Memory Specifications Graphics Specifications Expansion Options Package Specifications Advanced Technologies Intel® Data Protection Technology Intel® Platform Protection Technology	Specifications	
	Essentials	
	Status	End of Life
	Launch Date	Q2'11
	Expected Discontinuance	Q3'2013
	Processor Number	i3-2102
	Intel® Smart Cache	3 MB
	DMI	5 GT/s
	Instruction Set	64-bit
	Instruction Set Extensions	SSE4.1/4.2, AVX
	Embedded Options Available	No
	Lithography	32 nm
	Recommended Customer Price	N/A
	Datasheet	Link
	Performance	
	# of Cores	2
	# of Threads	4
	Processor Base Frequency	3.1 GHz
	TDP	65 W
	Memory Specifications	
	Max Memory Size (dependent on memory type)	32 GB
	Memory Types	DDR3 1066/1333
	Max # of Memory Channels	2
	Max Memory Bandwidth	21 GB/s
	Graphics Specifications	
	Processor Graphics ‡	Intel® HD Graphics 2000
	Graphics Base Frequency	850 MHz
	Graphics Max Dynamic Frequency	1.1 GHz
	Intel® Quick Sync Video	Yes
	Intel® InTru™ 3D Technology	Yes
	Intel® Insider™	Yes
	Intel® Wireless Display	No
	Intel® Flexible Display Interface (Intel® FDI)	Yes
	Intel® Clear Video HD Technology	Yes
	# of Displays Supported ‡	2
	Expansion Options	
	PCI Express Revision	2.0
	Max # of PCI Express Lanes	16
	Package Specifications	
	Max CPU Configuration	1
	Tcase	69.1°C
	Package Size	37.5mm x 37.5mm
	Sockets Supported	FCLGA1155
	Low Halogen Options Available	See MDDS
	Advanced Technologies	
	Intel® Turbo Boost Technology ‡	No
	Intel® vPro Technology ‡	No
	Intel® Hyper-Threading Technology ‡	Yes
	Intel® Virtualization Technology (VT-x) ‡	Yes
	Intel® Virtualization Technology for Directed I/O (VT-d) ‡	No
	Intel® VT-x with Extended Page Tables (EPT) ‡	Yes
	Intel® 64 ‡	Yes
	Idle States	Yes
	Enhanced Intel SpeedStep® Technology	Yes
	Thermal Monitoring Technologies	Yes
	Intel® Fast Memory Access	Yes
	Intel® Flex Memory Access	Yes
	Intel® Identity Protection Technology ‡	Yes
	Intel® Data Protection Technology	
	AES New Instructions	No
	Intel® Platform Protection Technology	
	Trusted Execution Technology ‡	No
	Execute Disable Bit ‡	Yes

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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.

"Conflict free" and "conflict-free" means "DRC conflict free", which is defined by the U.S. Securities and Exchange Commission rules to mean products that do not contain conflict minerals (tin, tantalum, tungsten and/or gold) that directly or indirectly finance or benefit armed groups in the Democratic Republic of the Congo (DRC) or adjoining countries. Intel also uses the term "conflict-free" in a broader sense to refer to suppliers, supply chains, smelters and refiners whose sources of conflict minerals do not finance conflict in the DRC or adjoining countries. Intel processors manufactured before January 1, 2013 are not confirmed conflict free. The conflict free designation refers only to product manufactured after that date. For Intel Boxed Processors, the conflict free designation refers 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/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 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. 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.

Low Halogen: Applies only to brominated and chlorinated flame retardants (BFRs/CFRAs) and PVC in the final product. Intel components as well as purchased components on the finished assembly meet J5-709 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.us/en/processors/processor-numbers.html](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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