















## Intel® Core™ i5-2500 Processor (6M Cache, up to 3.70 GHz)

### Specifications

- Essentials	
Status	End of Life
Launch Date	Q1'11
Expected Discontinuance	Q1'2013
Processor Number	i5-2500
Intel® Smart Cache	6 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	<a href="#">Link</a>
- Performance	
# of Cores	4
# of Threads	4
Processor Base Frequency	3.3 GHz
Max Turbo Frequency	3.7 GHz
TDP	95 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
ECC Memory Supported †	 No
- 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
T <sub>CASE</sub>	72.6°C
Package Size	37.5mm x 37.5mm

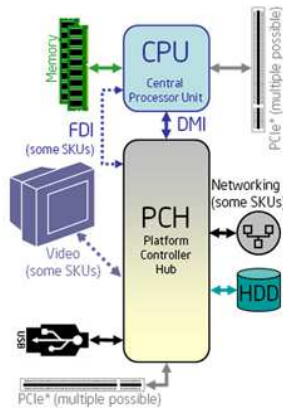
Sockets Supported	LGA1155
Low Halogen Options Available	See MDDS
- Advanced Technologies	
Intel® Turbo Boost Technology †	2.0
Intel® vPro Technology †	 Yes
Intel® Hyper-Threading Technology †	 No
Intel® Virtualization Technology (VT-x) †	Yes
Intel® Virtualization Technology for Directed I/O (VT-d) †	 Yes
Intel® VT-x with Extended Page Tables (EPT) †	 Yes
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	 Yes
- Intel® Platform Protection Technology	
Trusted Execution Technology †	 Yes
Execute Disable Bit †	Yes

Compatible Products

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- Chipsets						
Compare	Product Name	Status	Embedded Options Available	TDP	Recommended Customer Price	
Compare All +						
	<a href="#">Intel® Z77 Express Chipset (Intel® BD82Z77 PCH)</a>	Launched	No	6.7 W	T&R : \$48.00	
	<a href="#">Intel® Q77 Express Chipset (Intel® BD82Q77 PCH)</a>	Launched	Yes	6.7 W	T&R : \$44.00	
	<a href="#">Intel® H77 Express Chipset (Intel® BD82H77 PCH)</a>	Launched	No	6.7 W	T&R : \$43.00	
	<a href="#">Intel® Q75 Express Chipset (Intel® BD82Q75 PCH)</a>	Launched	No	6.7 W	T&R : \$40.00	
	<a href="#">Intel® B75 Express Chipset (Intel® BD82B75 PCH)</a>	Launched	Yes	6.7 W	T&R : \$37.00	
	<a href="#">Intel® Z75 Express Chipset (Intel® BD82Z75 PCH)</a>	Launched	No	6.7 W	T&R : \$40.00	
	<a href="#">Intel® Z68 Express Chipset (Intel® BD82Z68 PCH)</a>	Launched	No	6.1 W	T&R : \$48.00	
	<a href="#">Intel® Q67 Express Chipset (Intel® BD82Q67 PCH)</a>	Launched	Yes	6.1 W	T&R : \$44.00	
	<a href="#">Intel® Q65 Express Chipset (Intel® BD82Q65 PCH)</a>	Launched	No	6.1 W	T&R : \$40.00	
	<a href="#">Intel® P67 Express Chipset (Intel® BD82P67 PCH)</a>	Launched	No	6.1 W	N/A	
	<a href="#">Intel® H67 Express Chipset (Intel® BD82H67 PCH)</a>	Launched	No	6.1 W	T&R : \$43.00	
	<a href="#">Intel® H61 Express Chipset (Intel® BD82H61 PCH)</a>	Launched	Yes	6.1 W	T&R : \$23.00	
	<a href="#">Intel® B65 Express Chipset (Intel® BD82B65 PCH)</a>	Launched	Yes	6.1 W	T&R : \$37.00	

Product Images



Ordering and Spec Information

Trade Compliance Information

ECCN	CCATS	US HTS
5A992C	G077159	8542310000-HYBRD

Retired and Discontinued

Spec Code	Ordering Code	Step	RCP
Boxed Intel® Core™ i5-2500 Processor (6M Cache, up to 3.70 GHz) FC-LGA10			
SR00T	BX80623I52500	D2	N/A
Boxed Intel® Core™ i5-2500 Processor (6M Cache, up to 3.70 GHz) FC-LGA10, for China			
SR00T	BXC80623I52500	D2	N/A
Intel® Core™ i5-2500 Processor (6M Cache, up to 3.70 GHz) FC-LGA10, Tray			
SR00T	CM8062300834203	D2	N/A

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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/](http://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/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® architecture-enabled BIOS.

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