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		i5-2500S Processor p to 3.70 GHz)			🖬 🖨	¥ ∎£ in
Specifications	^	Specifications			Related Products	
Memory Sp Graphics Sp		<ul> <li>Essentials</li> <li>Status</li> <li>Launch Date</li> <li>Expected Discontinuance</li> </ul>	End of Life         Q1'11         Q1'2013         i5-25005         6 MB         5 GT/s		2nd Generation Intel® Core™ i5 Processors Intel® Core™ i5-2500 Desktop Processor Series Products formerly Sandy Bridge Quick Links Export Full Specifications >	
Package Specification Advanced Technologie Intel® Data Protectio	chnologies	Processor Number Intel® Smart Cache DMI				
Inte Protection	el® Platform Technology	Instruction Set Instruction Set Extensions	64-bit SSE4.1/4.2, AVX		Search Distributors > Software Downloads >	ors >
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Ordering / sSp Steppings	ecs / 🗸 🗸	Datasheet	Link		PCN/MDDS Information SR009	
		<ul> <li>Performance</li> <li># of Cores</li> <li># of Threads</li> <li>Processor Base Frequency</li> <li>Max Turbo Frequency</li> <li>TDP</li> </ul>	4 4 2.7 GHz 3.7 GHz 65 W		909500: PCN   MD	DS

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 #	Q	No	
<ul> <li>Graphics Specifications</li> </ul>			
Processor Graphics ‡		Intel <sup>®</sup> HD Graphics 2000	
Graphics Base Frequency		850 MHz	
Graphics Max Dynamic Frequency		1.1 GHz	
Intel® Quick Sync Video	Q	Yes	
Intel® InTru™ 3D Technology		Yes	
Intel® Insider®		Yes	
Intel® Wireless Display	Q	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	
<ul> <li>Package Specifications</li> </ul>			
Max CPU Configuration		1	
TCASE		69.1℃	
Package Size		37.5mm x 37.5mm	
Sockets Supported		LGA1155	
Low Halogen Options Available		See MDDS	
<ul> <li>Advanced Technologies</li> </ul>		3.0	
Intel® Turbo Boost Technology ‡		2.0	
Intel® Turbo Boost Technology ‡ Intel® vPro Technology ‡	Q	Yes	
Intel® Turbo Boost Technology ‡ Intel® vPro Technology ‡ Intel® Hyper-Threading Technology ‡	Q Q	Yes No	
Intel® Turbo Boost Technology ‡ Intel® vPro Technology ‡ Intel® Hyper-Threading Technology ‡ Intel® Virtualization Technology (VT-x) ‡		Yes	
Intel® Turbo Boost Technology ‡ Intel® vPro Technology ‡ Intel® Hyper-Threading Technology ‡ Intel® Virtualization Technology (VT-x) ‡ Intel® Virtualization Technology for Directed I/C		Yes No	
Intel® Turbo Boost Technology ‡ Intel® vPro Technology ‡ Intel® Hyper-Threading Technology ‡ Intel® Virtualization Technology (VT-x) ‡ Intel® Virtualization Technology for Directed I/C (VT-d) ‡	2	Yes No Yes	
Intel® Turbo Boost Technology ‡ Intel® vPro Technology ‡ Intel® Hyper-Threading Technology ‡ Intel® Virtualization Technology (VT-x) ‡ Intel® Virtualization Technology for Directed I/C		Yes No Yes Yes	
Intel® Turbo Boost Technology ‡ Intel® vPro Technology ‡ Intel® Hyper-Threading Technology ‡ Intel® Virtualization Technology (VT-x) ‡ Intel® Virtualization Technology for Directed I/C (VT-d) ‡ Intel® VT-x with Extended Page Tables (EPT) ‡	<b>Q</b>	Yes No Yes Yes	
Intel® Turbo Boost Technology ‡ Intel® vPro Technology ‡ Intel® Hyper-Threading Technology ‡ Intel® Virtualization Technology (VT-x) ‡ Intel® Virtualization Technology for Directed I/C (VT-d) ‡ Intel® VT-x with Extended Page Tables (EPT) ‡ Intel® 64 ‡ Idle States	<b>Q</b>	Yes No Yes Yes Yes	
Intel® Turbo Boost Technology ‡ Intel® vPro Technology ‡ Intel® Hyper-Threading Technology ‡ Intel® Virtualization Technology (VT-x) ‡ Intel® Virtualization Technology for Directed I/C (VT-d) ‡ Intel® VT-x with Extended Page Tables (EPT) ‡ Intel® 64 ‡ Idle States	<b>Q</b> <b>Q</b>	Yes No Yes Yes Yes	
Intel® Turbo Boost Technology ‡ Intel® vPro Technology ‡ Intel® Hyper-Threading Technology ‡ Intel® Virtualization Technology (VT-x) ‡ Intel® Virtualization Technology for Directed I/C (VT-d) ‡ Intel® VT-x with Extended Page Tables (EPT) ‡ Intel® 64 ‡ Idle States Enhanced Intel SpeedStep® Technology	<b>Q</b> <b>Q</b>	Yes No Yes Yes Yes Yes	
Intel® Turbo Boost Technology ‡ Intel® vPro Technology ‡ Intel® Hyper-Threading Technology ‡ Intel® Virtualization Technology (VT-x) ‡ Intel® Virtualization Technology for Directed I/O (VT-d) ‡ Intel® VT-x with Extended Page Tables (EPT) ‡ Intel® 64 ‡ Idle States Enhanced Intel SpeedStep® Technology Thermal Monitoring Technologies Intel® Fast Memory Access	<b>Q</b> <b>Q</b>	Yes No Yes Yes Yes Yes Yes	
Intel® Turbo Boost Technology ‡ Intel® vPro Technology ‡ Intel® Hyper-Threading Technology ‡ Intel® Virtualization Technology (VT-x) ‡ Intel® Virtualization Technology for Directed I/C (VT-d) ‡ Intel® VT-x with Extended Page Tables (EPT) ‡ Intel® 64 ‡ Idle States Enhanced Intel SpeedStep® Technology Thermal Monitoring Technologies	<b>Q</b> <b>Q</b>	Yes No Yes Yes Yes Yes Yes Yes	
Intel® Turbo Boost Technology ‡ Intel® vPro Technology ‡ Intel® Hyper-Threading Technology ‡ Intel® Virtualization Technology (VT-x) ‡ Intel® Virtualization Technology for Directed I/C (VT-d) ‡ Intel® VT-x with Extended Page Tables (EPT) ‡ Intel® 64 ‡ Idle States Enhanced Intel SpeedStep® Technology Thermal Monitoring Technologies Intel® Fast Memory Access Intel® Flex Memory Access	<b>Q</b> <b>Q</b>	Yes No Yes Yes Yes Yes Yes Yes Yes	
Intel® Turbo Boost Technology ‡ Intel® vPro Technology ‡ Intel® Hyper-Threading Technology ‡ Intel® Virtualization Technology (VT-x) ‡ Intel® Virtualization Technology for Directed I/O (VT-d) ‡ Intel® VT-x with Extended Page Tables (EPT) ‡ Intel® 64 ‡ Idle States Enhanced Intel SpeedStep® Technology Thermal Monitoring Technologies Intel® Fast Memory Access Intel® Flex Memory Access Intel® Identity Protection Technology ‡	<b>Q</b> <b>Q</b>	Yes No Yes Yes Yes Yes Yes Yes Yes	
Intel® Turbo Boost Technology ‡ Intel® vPro Technology ‡ Intel® Hyper-Threading Technology ‡ Intel® Hyper-Threading Technology (VT-x) ‡ Intel® Virtualization Technology for Directed I/C (VT-d) ‡ Intel® VT-x with Extended Page Tables (EPT) ‡ Intel® 64 ‡ Idle States Enhanced Intel SpeedStep® Technology Thermal Monitoring Technologies Intel® Fast Memory Access Intel® Flex Memory Access Intel® Identity Protection Technology ‡ Intel® Data Protection Technology AES New Instructions	<b>Q</b>	Yes           Yes	
Intel® Turbo Boost Technology ‡ Intel® vPro Technology ‡ Intel® Hyper-Threading Technology ‡ Intel® Virtualization Technology (VT-x) ‡ Intel® Virtualization Technology for Directed I/C (VT-d) ‡ Intel® VT-x with Extended Page Tables (EPT) ‡ Intel® 64 ‡ Idle States Enhanced Intel SpeedStep® Technology Thermal Monitoring Technologies Intel® Fast Memory Access Intel® Flex Memory Access Intel® Flex Memory Access Intel® Identity Protection Technology ‡	<b>Q</b>	Yes           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.

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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 information.

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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 US-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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