Intel® Xeon® Processor 5160
(4M Cache, 3.00 GHz, 1333 MHz FSB)

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Specifications

Specifications

⊖ Essentials

Status	End of Life
Expected Discontinuance	Q1'2009
Processor Number	5160
L2 Cache	4 MB
FSB Speed	1333 MHz
FSB Parity	Yes
Instruction Set	64-bit
Embedded Options Available 🔍	No
Lithography	65 nm
VID Voltage Range	B2=1.0V-1.5V, G0=.85V-1.5V
Recommended Customer Price	N/A
Datasheet	Link

⊖ Performance

# of Cores	2
Processor Base Frequency	3 GHz
TDP	80 W
Scenario Design Power (SDP)	0 W

⊖ Memory Specifications

Physical Address Extensions	32-bit
ECC Memory Supported * 🔍	No

⊖ Package Specifications

T$_{CASE}$	65°C
Package Size	37.5mm x 37.5mm
Processing Die Size	143 mm^2
# of Processing Die Transistors	291 million
Sockets Supported	LGA771
Low Halogen Options Available	See MDDS

⊖ Advanced Technologies

Intel® Turbo Boost Technology *	No
Intel® Hyper-Threading Technology * 🔍	No
Intel® Virtualization Technology (VT-x) *	Yes
Intel® VT-x with Extended Page Tables (EPT) * 🔍	No
Intel® 64 * 🔍	Yes
Idle States	Yes
Enhanced Intel SpeedStep® Technology 🔍	Yes
Intel® Demand Based Switching 🔍	No
Thermal Monitoring Technologies	Yes

⊖ Intel® Platform Protection Technology

Trusted Execution Technology * 🔍	No
Execute Disable Bit *	Yes

Related Products

Quick Links

PCN/MDDS Information

SL9RT
884455: PCN | MDDS
884515: PCN
884516: PCN
SLABS
890633: PCN | MDDS
890794: PCN
890795: PCN
SLAG9
891706: PCN | MDDS
892194: PCN
892200: PCN

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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/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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