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Intel® Core™ i3-3220 Processor (3M Cache, 3.30 GHz)

Specifications

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Compatible Products

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Specifications

Essentials

Status	Launched
Launch Date	Q3'12
Processor Number	i3-3220
Intel® Smart Cache	3 MB
DMI	5 GT/s
Instruction Set	64-bit
Instruction Set Extensions	SSE4.1/4.2, AVX
Embedded Options Available	Yes
Lithography	22 nm
Thermal Solution Specification	2011C
Recommended Customer Price	BOX : <input type="text"/> TRAY: <input type="text"/>
Conflict Free	Yes
Datasheet	Link

Performance

# of Cores	2
# of Threads	4
Processor Base Frequency	3.3 GHz
TDP	55 W

Memory Specifications

Max Memory Size (dependent on memory type)	32 GB
Memory Types	DDR3-1333/1600
# of Memory Channels	2
Max Memory Bandwidth	25.6 GB/s
ECC Memory Supported †	Yes

Graphics Specifications

Processor Graphics †	Intel® HD Graphics 2500
Graphics Base Frequency	650 MHz
Graphics Max Dynamic Frequency	1.05 GHz
Intel® Quick Sync Video	Yes
Intel® InTru™ 3D Technology	Yes
Intel® Insider™	Yes
Intel® Wireless Display	Yes
Intel® Flexible Display Interface (Intel® FDI)	Yes
Intel® Clear Video HD Technology	Yes
# of Displays Supported †	3

Expansion Options

PCI Express Revision	2.0
PCI Express Configurations †	up to 1x16, 2x8, 1x8 & 2x4

Package Specifications

Max CPU Configuration	1
T _{CASE}	65.3°C
Package Size	37.5mm x 37.5mm
Sockets Supported	FCLGA1155
Low Halogen Options Available	See MDDS

Advanced Technologies

Intel® Turbo Boost Technology †	No
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Related Products

3rd Generation Intel® Core™ i3 Processors
Intel® Core™ i3-3200 Desktop Processor Series
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PCN/ MDDS Information

SR0RG
920964: PCN | MDDS
921327: PCN | MDDS
921364: PCN

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
Intel® My WiFi Technology		Yes
Idle States		Yes
Enhanced Intel SpeedStep® Technology		Yes
Thermal Monitoring Technologies		Yes
Intel® Identity Protection Technology †		Yes
Intel® Data Protection Technology		
AES New Instructions		No
Secure Key		No
Intel® Platform Protection Technology		
Trusted Execution Technology †		No
Execute Disable Bit †		Yes
Anti-Theft Technology		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/CFRs) 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.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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