



Intel® Core™ i3-330M Processor (3M Cache, 2.13 GHz)

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SPECIFICATIONS

Essentials

Status	EOIS
Launch Date	Q1'10
Processor Number	i3-330M
# of Cores	2
# of Threads	4
Clock Speed	2.13 GHz
Intel® Smart Cache	3 MB
DMI	2.5 GT/s
Instruction Set	64-bit
Instruction Set Extensions	SSE4.1, SSE4.2
Embedded Options Available <input type="checkbox"/>	No
Lithography	32 nm
Max TDP	35 W
Recommended Customer Price	

Memory Specifications

Max Memory Size (dependent on memory type)	8 GB
Memory Types	DDR3-800/1066
# of Memory Channels	2
Max Memory Bandwidth	17.1 GB/s
Physical Address Extensions	36-bit
ECC Memory Supported † <input type="checkbox"/>	No

Graphics Specifications

Processor Graphics †	Intel® HD Graphics
Graphics Base Frequency	500 MHz
Graphics Max Dynamic Frequency	667 MHz

Expansion Options

PCI Express Revision	2.0
PCI Express Configurations †	1x16
Max # of PCI Express Lanes	16

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PCN/MDDS INFORMATION

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- SLBNF**
904441: [PCN](#) | [MDDS](#)
- SLBMD**
904379: [PCN](#) | [MDDS](#)

Package Specifications	
Max CPU Configuration	1
Temperature Junction	90°C for rPGA, 105°C for BGA
Package Size	rPGA 37.5mmx 37.5mm, BGA 34mmx28mm
Processing Die Size	81 mm ²
# of Processing Die Transistors	382 million
Graphics and IMC Lithography	45 nm
Graphics and IMC Die Size	114 mm ²
# of Graphics and IMC Die Transistors	177 million
Sockets Supported	BGA1288, PGA988
Low Halogen Options Available	See MDDS

Advanced Technologies	
Intel® Turbo Boost Technology ‡	No
Intel® vPro Technology ‡	<input type="checkbox"/> No
Intel® Hyper-Threading Technology ‡	<input checked="" type="checkbox"/> Yes
Intel® Virtualization Technology (VT-x) ‡	<input checked="" type="checkbox"/> Yes
Intel® Virtualization Technology for Directed I/O (VT-d) ‡	<input type="checkbox"/> No
Intel® VT-x with Extended Page Tables (EPT) ‡	<input checked="" type="checkbox"/> Yes
Intel® 64 ‡	<input checked="" type="checkbox"/> Yes
Idle States	<input checked="" type="checkbox"/> Yes
Enhanced Intel SpeedStep® Technology	<input checked="" type="checkbox"/> Yes
Thermal Monitoring Technologies	<input checked="" type="checkbox"/> Yes
Intel® Fast Memory Access	<input checked="" type="checkbox"/> Yes
Intel® Flex Memory Access	<input checked="" type="checkbox"/> Yes

Intel® Data Protection Technology	
AES New Instructions	<input type="checkbox"/> No

Intel® Platform Protection Technology	
Trusted Execution Technology ‡	<input type="checkbox"/> No
Execute Disable Bit ‡	<input checked="" type="checkbox"/> Yes

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*"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.

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.

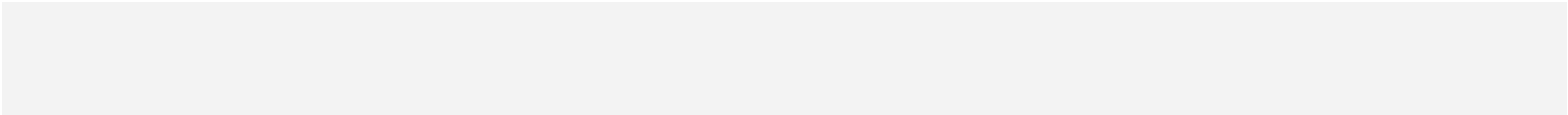
Low Halogen: Applies only to brominated and chlorinated flame retardants (BFRs/CFRs) and PVC in the final product. Intel components as well as purchased components on the finished assembly meet JS-709 requirements, and the PCB / substrate meet IEC 61249-2-21 requirements. The replacement of halogenated 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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