

ARK Home ☐

# 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 	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 † 	No

### Graphics Specifications

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

### Intel® Smart Response Technology

Macrovision* License Required	No
# of Displays Supported †	2

### Expansion Options

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

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## RELATED PRODUCTS

Previous Generation Intel® Core™ i3 Processor  
Intel® Core™ i3-300 Mobile Processor Series  
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**SLBNF**  
904441: [PCN](#) | [MDDS](#)  
**SLBMD**  
904379: [PCN](#) | [MDDS](#)



Package Specifications	
Max CPU Configuration	1
JUNCTION	90°C for rPGA, 105°C for BGA
Package Size	rPGA 37.5mmx 37.5mm, BGA 34mmx28mm
Processing Die Size	81 mm <sup>2</sup>
# of Processing Die Transistors	382 million
Graphics and IMC Lithography	45 nm
Graphics and IMC Die Size	114 mm <sup>2</sup>
# 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 ‡	 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
Idle States	Yes
Enhanced Intel SpeedStep® Technology	 Yes
Thermal Monitoring Technologies	Yes
Intel® Fast Memory Access	Yes
Intel® Flex Memory Access	Yes

Intel® Data Protection Technology	
AES New Instructions	 No

Intel® Platform Protection Technology	
Trusted Execution Technology ‡	 No
Execute Disable Bit ‡	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/](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 64 architecture-enabled BIOS.

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