

# Intel® Core™ i5-3330 Processor (6M Cache, up to 3.20 GHz)

## SPECIFICATIONS

Essentials

Memory Specifications

Graphics Specifications

Expansion Options

Package Specifications

Advanced Technologies

COMPATIBLE PRODUCTS

BLOCK DIAGRAMS

ORDERING / SSPECS / STEPPINGS

## Specifications

### Essentials

Status	Launched
Launch Date	Q3'12
Processor Number	i5-3330
# of Cores	4
# of Threads	4
Clock Speed	3 GHz
Max Turbo Frequency	3.2 GHz
Intel® Smart Cache	6 MB
Bus/Core Ratio	30
DMI	5 GT/s
Instruction Set	64-bit
Instruction Set Extensions	SSE4.1/4.2, AVX
Embedded Options Available	No
Lithography	22 nm
Max TDP	77 W
Recommended Customer Price	TRAY: \$182.00 BOX : \$187.00

### 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	No

### 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

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## PCN/MDDS Information

SR0RQ  
921119: [PCN](#) | [MDDS](#)  
921407: [PCN](#)

<a href="#">Intel® InTru™ 3D Technology</a>	Yes
<a href="#">Intel® Insider™</a>	Yes
<a href="#">Intel® Wireless Display</a>	Yes
<a href="#">Intel® Flexible Display Interface (Intel® FDI)</a>	Yes
<a href="#">Intel® Clear Video HD Technology</a>	Yes
# of Displays Supported	3








### Expansion Options

PCI Express Revision	3.0
PCI Express Configurations	1x16, 2x8, 1x8 & 2x4

### Package Specifications

Max CPU Configuration	1
T <sub>CASE</sub>	67.4°C
Package Size	37.5mm x 37.5mm
Sockets Supported	FCLGA1155
Low Halogen Options Available	See MDDS

### Advanced Technologies

<a href="#">Intel® Turbo Boost Technology</a>		2.0
<a href="#">Intel® vPro Technology</a>		No
<a href="#">Intel® Hyper-Threading Technology</a>		No
<a href="#">Intel® Virtualization Technology (VT-x)</a>		Yes
<a href="#">Intel® Virtualization Technology for Directed I/O (VT-d)</a>		Yes
<a href="#">Intel® Trusted Execution Technology</a>		No
<a href="#">AES New Instructions</a>		Yes
<a href="#">Intel® 64</a>		Yes
<a href="#">Intel® Anti-Theft Technology</a>		Yes
<a href="#">Intel® My WiFi Technology</a>		Yes
<a href="#">Idle States</a>		Yes
<a href="#">Enhanced Intel SpeedStep® Technology</a>		Yes
<a href="#">Thermal Monitoring Technologies</a>		Yes
<a href="#">Intel® Fast Memory Access</a>		Yes
<a href="#">Intel® Flex Memory Access</a>		Yes
<a href="#">Execute Disable Bit</a>		Yes
<a href="#">Intel® VT-x with Extended Page Tables (EPT)</a>		Yes

"Announced" SKUs are not yet available. Please refer to the Launch Date for market availability.

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.

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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.

Hyper-Threading Technology (HT Technology) requires a computer system with an Intel® processor supporting HT Technology and an HT Technology enabled chipset, BIOS and operating system. Performance will vary depending on the specific hardware and software you use. 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 HT Technology.

64-bit computing on Intel® architecture requires a computer system with a processor, chipset, BIOS, operating system, device drivers and applications enabled for Intel® 64 architecture. Processors will not operate (including 32-bit operation) without an Intel 64 architecture-enabled BIOS. Performance will vary depending on your hardware and software configurations. Consult with your system vendor for more information.

Max Turbo Frequency refers to the maximum single-core frequency that can be achieved with Intel® Turbo Boost Technology, which requires a PC with a processor with Intel Turbo Boost Technology capability. Intel Turbo Boost Technology performance varies depending on hardware, software, and overall system configuration. Check with your PC manufacturer on whether your system delivers Intel Turbo Boost Technology. See [www.intel.com/technology/turboboost/](http://www.intel.com/technology/turboboost/) for more information.

Graphics output, multiple displays, ECC memory, specific PCI Express configurations, Intel® vPro™ Technology, Intel® Trusted Execution Technology, and Intel® Virtualization Technology for Directed I/O (VT-d) may not be available on all computing systems. Please reference the system, motherboard or chipset specifications for compatibility.

Enabling Execute Disable Bit functionality requires a PC with a processor with Execute Disable Bit capability and a supporting operating system. Check with your PC manufacturer on whether your system delivers Execute Disable Bit functionality.

Intel® Virtualization Technology requires a computer system with a processor, chipset, BIOS, virtual machine monitor (VMM) and for some uses, certain platform software, enabled for it. Functionality, performance or other benefit will vary depending on hardware and software configurations. Intel Virtualization Technology-enabled VMM applications are currently in development.

System and Maximum TDP is based on worst case scenarios. Actual TDP may be lower if not all I/Os for chipsets are used.

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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.

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.