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Intel® Core™ i5-660 Processor (4M Cache, 3.33 GHz) CORE

SPECIFICATIONS

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Essentials Memory Specifications Graphics Specifications Expansion Options Package Specifications **Advanced Technologies** Intel® Data Protection Technology Intel[®] Platform Protection Technology **COMPATIBLE PRODUCTS**

PRODUCT IMAGES

ORDERING / SSPECS / STEPPINGS

Essentials	
Status	Launched
Launch Date	Q1'10
Processor Number	i5-660
# of Cores	2
# of Threads	4
Clock Speed	3.33 GHz
Max Turbo Frequency	3.6 GHz
Intel® Smart Cache	4 MB
DMI	2.5 GT/s
Instruction Set	64-bit
Instruction Set Extensions	SSE4.2
Embedded Options Available	Q Yes
Lithography	32 nm
Max TDP	73 W
VID Voltage Range	0.6500V-1.4000V

Memory Specifications	
Max Memory Size (dependent on memory type)	16 GB
Memory Types	DDR3-1066/1333
# of Memory Channels	2
Max Memory Bandwidth	21 GB/s
Physical Address Extensions	36-bit

- Graphics Specifications

Chip Shot: Intel Survey Says Driverless Cars, Drones Coming to a City Near You Newsroom

Graphics Base Frequency	733 MHz
Intel® Flexible Display Interface (Intel® FDI)	Yes
Intel® Clear Video HD Technology	Yes
# of Displays Supported ‡	2
Expansion Options	
PCI Express Revision	2.0
PCI Express Configurations [‡]	1x16, 2x8

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RELATED PRODUCTS

Previous Generation Intel® Core™ i5 Processor Intel® Core™ i5-600 Desktop Processor Series Products formerly Clarkdale



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PCN/MDDS INFORMATION

SLBTK	DON	
907933: SLBLV	PCN	
904343:	PCN	MDDS
904855:	PCN	MDDS

yf USA (English)

Max # of PCI Express Lanes	16
Package Specifications	
Max CPU Configuration	1
T _{CASE} .	72.6°C
Package Size	37.5mm x 37.5mm
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	FCLGA1156
Low Halogen Options Available	See MDDS

- Advanced Technologies		
Intel® Turbo Boost Technology ‡		Yes
Intel® vPro Technology ‡	Q	Yes
Intel® Hyper-Threading Technology ‡	Q	Yes
Intel® Virtualization Technology (VT-x) [‡]	Q	Yes
Intel® Virtualization Technology for Directed I/O d) ‡	(VT- Q	Yes
Intel® VT-x with Extended Page Tables (EPT) ‡	Q	Yes
Intel® 64 ±	Q	Yes
Idle States		Yes
Enhanced Intel SpeedStep® Technology	Q	Yes
Intel® Demand Based Switching	Q	No
Thermal Monitoring Technologies		No
Intel® Data Protection Technology		
AES New Instructions	Q	Yes
- Intel® Platform Protection Technology		
Trusted Execution Technology ‡	Q	Yes
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/ 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.

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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.

Processors that support 64-bit computing on Intel® architecture require an Intel 64 architecture-enabled BIOS.

