Graphics Specifications
Processor Graphics

Graphics Base Frequency

Intel® Quick Sync Video

Intel® Wireless Display

Dual Display Capable

of Displays Supported

Intel® InTru™ 3D Technology

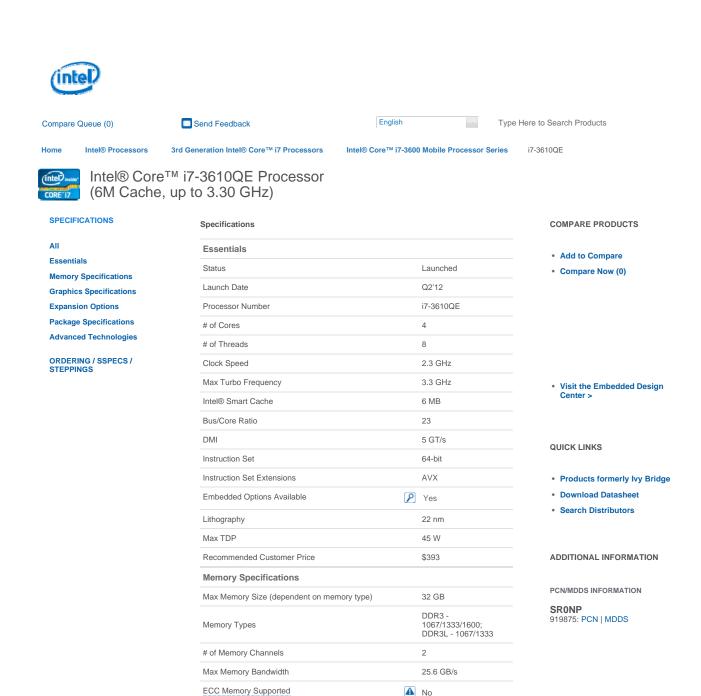
Intel® Flexible Display Interface (Intel® FDI)

Intel® Clear Video HD Technology

Graphics Output

Intel® Insider™

Graphics Max Dynamic Frequency



▲ Intel® HD Graphics 4000

eDP/DP/HDMI/SDVO/CRT

650 MHz

1 GHz

Yes

Yes

No

Nο

Yes

Yes

Yes

A 2

Expansion Options ademarks		
PCI Express Revision		3.0 (16), 2.0 (1x4 lanes)
PCI Express Configurations	A	1x16 2x8 1X8 2x4 1x4
# of PCI Express Ports		2
Package Specifications		
Max CPU Configuration		1
T _{JUNCTION}		105
Package Size		37.5mmx 37.5mm PGA
Graphics and IMC Lithography		22nm
Sockets Supported		FCPGA988
Low Halogen Options Available		See MDDS
Advanced Technologies		
Intel® Turbo Boost Technology		2.0
Intel® vPro Technology		Yes
Intel® Hyper-Threading Technology	P	Yes
Intel® Virtualization Technology (VT-x)	P	Yes
Intel® Virtualization Technology for Directed I/O (VT-d)	P	Yes
Intel® Trusted Execution Technology	P	Yes
AES New Instructions	P	Yes
Intel® 64	P	Yes
Intel® Anti-Theft Technology		No
Intel® My WiFi Technology		Yes
4G WiMAX Wireless Technology		No
Idle States		Yes
Enhanced Intel SpeedStep® Technology	P	Yes
Intel® Demand Based Switching		No
Thermal Monitoring Technologies		Yes
Intel® Fast Memory Access		Yes
Intel® Flex Memory Access		Yes
Execute Disable Bit		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/products/processor_number 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 www.intel.com/products/ht/hyperthreading_more.htm 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/ for more information.

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.

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Intel® Processors

3rd Generation Intel® Core™ i7 Processors

Intel® Core™ i7-3600 Mobile Processor Series

i7-3610QE



Intel® Core™ i7-3610QE Processor (6M Cache, up to 3.30 GHz)

SPECIFICATIONS

ORDERING AND SPEC INFORMATION

ORDERING / SSPECS /

Ordering and Spec Information

Intel® Core™ i7-3610QE Processor (6M Cache, up to 3.30 GHz) FC-PGA12F, Tray

SR0NP

Step Step TDP Ordering Code FCPGA988 E1 45 W AW8063801118306

US HTS Spec Code VT-x ECCN CCATS RCP 5A992C G077159 8542310000-HYBRD \$393

Ordering / sSpecs / Steppings **Retired and Discontinued**

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