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SPEC

Essential

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Status Launched

Launch Date Q2'12

Processor Number i7-3615QE

of Cores 4

of Threads 8

Clock Speed 2.3 GHz

Max Turbo Frequency 3.3 GHz

Intel® Smart Cache 6 MB

DMI 5 GT/s

Instruction Set 64-bit

Instruction Set Extensions AVX

Embedded Options Available  Yes

Lithography 22 nm

Max TDP 45 W

Recommended Customer Price TRAY: \$393.00

Memory Specifications

Max Memory Size (dependent on memory type) 16 GB

Memory Types DDR3-1067/1333/1600; DDR3L-1067/1333/1600

of Memory Channels 2

Max Memory Bandwidth 25.6 GB/s

ECC Memory Supported  Yes

Graphics Specifications

Processor Graphics  Intel® HD Graphics 4000

Graphics Base Frequency 650 MHz

Graphics Max Dynamic Frequency 1 GHz

Graphics Output eDP/DP/HDMI/SDVO/CRT

Intel® Quick Sync Video  Yes

Intel® InTru™ 3D Technology Yes

Intel® Insider™ No

Intel® Wireless Display  No

Intel® Flexible Display Interface (Intel® FDI) Yes

Intel® Clear Video HD Technology Yes

of Displays Supported  3

Expansion Options

PCI Express Revision 3.0

PCI Express Configurations  1x16 2x8 1x8 2x4

Max# of PCI Express Lanes 16

Package Specifications

Max CPU Configuration 1

T_{JUNCTION} 105

Package Size 31mm x24mm (BGA1023)

Graphics and IMC Lithography 22nm

Sockets Supported FCBGA1023

Low Halogen Options Available See MDDDS

Advanced Technologies

Intel® Turbo Boost Technology  2.0Intel® vPro Technology  YesIntel® Hyper-Threading Technology  YesIntel® Virtualization Technology (VT-x)  YesIntel® Virtualization Technology for Directed I/O (VT-d)  Yes

RELATED PRODUCTS

- 3rd Generation Intel® Core™ i7 Processors
- Intel® Core™ i7-3600 Mobile Processor Series
- Products formerly Ivy Bridge



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PCN/MDDDS Information

SR0NC
919818: [PCN](#) | [MDDDS](#)

Intel® VT-x with Extended Page Tables (EPT)‡	<input type="checkbox"/> Yes
Intel® 64‡	<input type="checkbox"/> Yes
Intel® My WiFi Technology	<input type="checkbox"/> Yes
4G WiMAX Wireless Technology	No
Idle States	<input type="checkbox"/> Yes
Enhanced Intel SpeedStep® Technology	<input type="checkbox"/> Yes
Intel® Demand Based Switching	<input type="checkbox"/> No
Thermal Monitoring Technologies	<input type="checkbox"/> Yes
Intel® Fast Memory Access	<input type="checkbox"/> Yes
Intel® Flex Memory Access	<input type="checkbox"/> Yes
Intel® Identity Protection Technology‡	<input type="checkbox"/> Yes

Intel® Data Protection Technology	
AES New Instructions	<input type="checkbox"/> Yes

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

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

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.htm> for details.

For benchmarking data see <http://www.intel.com/performance>.

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

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.

‡ 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.

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.

Max Turbo Frequency refers to the maximum single-core processor frequency that can be achieved with Intel® Turbo Boost Technology. See <http://www.intel.com/technology/turboboost/> for more information.

See <http://www.intel.com/content/www/us/en/architecture-and-technology/hyper-threading-technology.html?wapkw=hyper+threading> for more information including details on which processors support Intel® HT Technology.

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

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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