



Intel® Core™ i7-3615QE Processor

6M Cache, up to 3.30 GHz

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Essentials

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Product Collection	Legacy Intel® Core™ Processors
Code Name	Products formerly Ivy Bridge
Vertical Segment	Embedded
Processor Number	i7-3615QE
Status	Launched
Launch Date 	Q2'12
Lithography 	22 nm
Use Conditions 	Embedded Broad Market Commercial Temp, PC/Client/Tablet
	

Performance

# of Cores 	4
# of Threads 	8
Processor Base Frequency 	2.30 GHz
Max Turbo Frequency 	3.30 GHz
Cache 	6 MB SmartCache
Bus Speed 	5 GT/s DMI
TDP 	45 W

Supplemental Information

Embedded Options Available 	Yes
Datasheet	View now

Memory Specifications

Max Memory Size (dependent on memory type) 	16.11 GB
Memory Types 	DDR3/DDR3L 1067/1333/1600
Max # of Memory Channels 	2
Max Memory Bandwidth 	25.6 GB/s
ECC Memory Supported 	Yes

Processor Graphics

Processor Graphics ‡	Intel® HD Graphics 4000
Graphics Base Frequency	650 MHz
Graphics Max Dynamic Frequency	1.00 GHz
Graphics Output	eDP/DP/HDMI/SDVO/CRT
Intel® Quick Sync Video	Yes
Intel® InTru™ 3D Technology	Yes
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

Sockets Supported	FCBGA1023
Max CPU Configuration	1
T _{JUNCTION}	105°C
Package Size	31mm x 24mm (BGA 1023)
Low Halogen Options Available	Yes

Advanced Technologies

Intel® Turbo Boost Technology ‡	2.0
Intel® vPro™ Platform Eligibility ‡	Yes
Intel® Hyper-Threading Technology ‡	Yes
Intel® Virtualization Technology (VT-x) ‡	Yes
Intel® Virtualization Technology for Directed I/O (VT-d) ‡	Yes
Intel® VT-x with Extended Page Tables (EPT) ‡	Yes
Intel® 64 ‡	Yes
Instruction Set	64-bit
Instruction Set Extensions	Intel® AVX
Intel® My WiFi Technology	Yes
4G WiMAX Wireless Technology	No
Idle States	Yes
Enhanced Intel SpeedStep® Technology	Yes
Intel® Demand Based Switching	No
Thermal Monitoring Technologies	Yes

Intel® Fast Memory Access	?	Yes
Intel® Flex Memory Access	?	Yes
Intel® Identity Protection Technology ‡	?	Yes

Security & Reliability

Intel® AES New Instructions	?	Yes
Intel® Trusted Execution Technology ‡	?	Yes
Execute Disable Bit ‡	?	Yes
Anti-Theft Technology	?	No

More support options for Intel® Core™ i7-3615QE Processor (6M Cache, up to 3.30 GHz)


Product Support


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Refer to Datasheet for formal definitions of product properties and features.

‡ 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.

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.

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

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

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

Check <http://ipt.intel.com/> for systems that support Intel® Identity Protection Technology (Intel® IPT).

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.

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.

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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