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**Intel® Core™ i7-2610UE Processor**
(4M Cache, up to 2.40 GHz)

SPECIFICATIONS

Essentials

Status	Launched
Launch Date	Q1'11
Processor Number	i7-2610UE
# of Cores	2
# of Threads	4
Clock Speed	1.5 GHz
Max Turbo Frequency	2.4 GHz
Intel® Smart Cache	4 MB
DMI	5 GT/s
Instruction Set	64-bit
Instruction Set Extensions	AVX
Embedded Options Available	 Yes
Lithography	32 nm
Max TDP	17 W
Recommended Customer Price	N/A

Memory Specifications

Max Memory Size (dependent on memory type)	16 GB
Memory Types	DDR3-1066/1333
# of Memory Channels	2
ECC Memory Supported ‡	 Yes

Graphics Specifications

Processor Graphics ‡	Intel® HD Graphics 3000
Graphics Base Frequency	350 MHz
Graphics Max Dynamic Frequency	850 MHz
Graphics Output	eDP/DP/HDMI/SDVO/CRT
Intel® Quick Sync Video	 Yes
Intel® InTru™ 3D Technology	Yes
Intel® Wireless Display	 Yes
Intel® Flexible Display Interface (Intel® FDI)	Yes
Intel® Clear Video HD Technology	Yes
Macrovision* License Required	No
# of Displays Supported ‡	2

Expansion Options

PCI Express Revision	2.0
PCI Express Configurations ‡	1x16, 2x8, 1x8+2x4
Max # of PCI Express Lanes	16

RELATED PRODUCTS

- 2nd Generation Intel® Core™ i7 Processors
- Intel® Core™ i7-2600 Mobile Processor Series
- Products formerly Sandy Bridge



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PCN/MDDS Information

SR079
911599: PCN | MDDS

Package Specifications	
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Package Size	31mm x 24mm (FCBGA1023)
Graphics and IMC Lithography	32 nm
Sockets Supported	FCBGA1023
Low Halogen Options Available	See MDDS

Advanced Technologies	
Intel® Turbo Boost Technology‡	2.0
Intel® vPro Technology‡	 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
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

Intel® Data Protection Technology	
AES New Instructions	 Yes

Intel® Platform Protection Technology	
Trusted Execution Technology‡	 Yes

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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.html> 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 www.intel.com/technology/turboboost/ for more information.

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.

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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