






ARK Home ▶







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

SPECIFICATIONS

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

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



[Visit the Embedded Design Center >](#)

QUICK LINKS

- [Download Datasheet](#)
- [Search Distributors](#)
- [Software Downloads](#)
- [Support Overview](#)
- [Search all of intel.com](#)









PCN/MDDS Information


SR079
911599: [PCN](#) | [MDDS](#)

<http://ark.intel.com/products/54645/>

1 / 3

Package Specifications	
T _{JUNCTION}	100 C
Package Size	31mm x24mm (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

All information provided is subject to change at any time, without notice. Intel may make changes to manufacturing life cycle, specifications, and product descriptions at any time, without notice. The information herein is provided "as-is" and Intel does not make any representations or warranties whatsoever regarding accuracy of the information, nor on the product features, availability, functionality, or compatibility of the products listed. Please contact system vendor for more information on specific products or systems.

"Intel classifications" consist of Export Control Classification Numbers (ECCN) and Harmonized Tariff Schedule (HTS) numbers. Any use made of Intel classifications are without recourse to Intel and shall not be construed as a representation or warranty regarding the proper ECCN or HTS. Your company may be the exporter of record, and as such, your company is responsible for determining the correct classification of any item at the time of export.

"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.

[Send us your feedback!](#)

