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SPEC

Essential

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 Yes No

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

Status Launched

Launch Date Q4'11

Processor Number i7-2760QM

of Cores 4

of Threads 8

Clock Speed 2.4 GHz

Max Turbo Frequency 3.5 GHz

Intel® Smart Cache 6 MB

DMI 5 GT/s

Instruction Set 64-bit

Instruction Set Extensions AVX

 Embedded Options Available  No

Lithography 32 nm

Max TDP 45 W

Recommended Customer Price TRAY: \$378.00

Memory Specifications

Max Memory Size (dependent on memory type)	32 GB
Memory Types	DDR3-1066/1333/1600
# of Memory Channels	2
Max Memory Bandwidth	25.6 GB/s
ECC Memory Supported 	No

Graphics Specifications

Processor Graphics 	Intel® HD Graphics 3000
Graphics Base Frequency	650 MHz
Graphics Max Dynamic Frequency	1.3 GHz
Graphics Output	eDP/DP/HDMI/SDVO/CRT
Intel® Quick Sync Video 	Yes
Intel® InTru™ 3D Technology	Yes
Intel® Insider™	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

Package Specifications

Max CPU Configuration	1
T _{JUNCTION}	100 C
Package Size	37.5 x 37.5mm (rPGA988B); 31.0 x 24.0mm (BGA1224)
Graphics and IMC Lithography	32 nm
Sockets Supported	FCBGA1224, FCPGA988
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

RELATED PRODUCTS

- 2nd Generation Intel® Core™ i7 Processors
- Intel® Core™ i7-2700 Mobile Processor Series
- Products formerly Sandy Bridge

QUICK LINKS

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PCN/MDDs Information

SR02R
910241: [PCN](#) | [MDDs](#)
SR02W
910246: [PCN](#) | [MDDs](#)

d) ‡	Intel® VT-x with Extended Page Tables (EPT) ‡	Yes
	Intel® 64 ‡	Yes
	Intel® My WiFi Technology	Yes
	4G WiMAX Wireless Technology	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
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Intel® Platform Protection Technology

Trusted Execution Technology‡	Yes
Execute Disable Bit ‡	Yes
Anti-Theft 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.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.

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‡ 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-VM, 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/turbo/boost/ 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.

 Send us your feedback!

