

Intel® Core™ i7-920 Processor

8M Cache, 2.66 GHz, 4.80 GT/s Intel® QPI

Add to Compare

Specifications

Essentials

Performance

Supplemental Information

Memory Specifications

Package Specifications

Advanced Technologies

Security & Reliability

Ordering and Compliance

Product Images

Compatible Products

Downloads and Software

Essentials

Export specifications

Product Collection	Legacy Intel® Core™ Processors
Code Name	Products formerly Bloomfield
Vertical Segment	Desktop
Processor Number	i7-920
Status	Discontinued
Launch Date ?	Q4'08
Lithography ?	45 nm
Recommended Customer Price ?	

Performance

# of Cores ?	4
# of Threads ?	8
Processor Base Frequency ?	2.66 GHz
Max Turbo Frequency ?	2.93 GHz
Cache ?	8 MB SmartCache
Bus Speed ?	4.8 GT/s QPI
# of QPI Links ?	1
TDP ?	130 W
VID Voltage Range ?	0.800V-1.375V

Supplemental Information

Embedded Options Available ?	No
Datasheet	View now












Memory Specifications

Max Memory Size (dependent on memory type) ?	24 GB
Memory Types ?	DDR3 800/1066
Max # of Memory Channels ?	3
Max Memory Bandwidth ?	25.6 GB/s
Physical Address Extensions ?	36-bit
ECC Memory Supported ‡ ?	No




Package Specifications

Sockets Supported 	FCLGA1366
Max CPU Configuration	1
T _{CASE} 	67.9°C
Package Size	42.5mm x 45.0mm
Processing Die Size	263 mm ²
# of Processing Die Transistors	731 million

Advanced Technologies

Intel® Turbo Boost Technology [‡] 	1.0
Intel® Hyper-Threading Technology [‡] 	Yes
Intel® Virtualization Technology (VT-x) [‡] 	Yes
Intel® VT-x with Extended Page Tables (EPT) [‡] 	Yes
Intel® 64 [‡] 	Yes
Instruction Set 	64-bit
Instruction Set Extensions 	Intel® SSE4.2
Idle States 	Yes
Enhanced Intel SpeedStep® Technology 	Yes
Intel® Demand Based Switching 	No
Thermal Monitoring Technologies 	No

Security & Reliability

Intel® AES New Instructions 	No
Intel® Trusted Execution Technology [‡] 	No
Execute Disable Bit [‡] 	Yes

More support options for Intel® Core™ i7-920 Processor (8M Cache, 2.66 GHz, 4.80 GT/s Intel® QPI)



Product Support



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Support Community



Warranty and Replacement



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

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

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.

‡ 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.

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.

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.

The Recommended Customer Price ("RCP") is pricing guidance for Intel products. Prices are for direct Intel customers, typically represent 1,000-unit purchase quantities, 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. If sold in bulk, price represents individual unit. 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.

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

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

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.

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



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