

Intel Core i7-920 processor 2.66 GHz 8 MB Smart Cache Box

Brand : Intel

Product family: Core

Product code: BX80601920

Product name : i7-920

Intel® Core™ i7-920 Processor

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

Intel Core i7-920. Processor family: Intel® Core™ i7, Processor socket: LGA 1366 (Socket B), Processor lithography: 45 nm. Memory channels: Triple-channel, Maximum internal memory supported by processor: 24 GB, Memory types supported by processor: DDR3-SDRAM. Market segment: Desktop, Number of Processing Die Transistors: 731 M, Processing Die size: 263 mm². Package type: Retail box. Processor package size: 42.5mm x 45mm



Processor		Features	
Processor manufacturer *	Intel	Physical Address Extension (PAE)	36 bit
Processor generation	Intel® Core™ i7	Export Control Classification Number (ECCN)	3A991.A.1
Processor model *	i7-920	Commodity Classification	
Processor base frequency *	2.66 GHz	Automated Tracking System (CCATS)	NA
Processor family *	Intel® Core™ i7	Processor special features	
Processor cores *	4	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor socket *	LGA 1366 (Socket B)	Intel® Turbo Boost Technology	1.0
Processor lithography *	45 nm	Intel® AES New Instructions (Intel® AES-NI)	✗
Processor series	Intel Core i7-900 Desktop Series	Enhanced Intel SpeedStep Technology	✓
Processor threads	8	Intel Trusted Execution Technology	✗
System bus rate	4.8 GT/s	Intel Enhanced Halt State	✓
Processor operating modes *	64-bit	Intel VT-x with Extended Page Tables (EPT)	✓
Processor boost frequency	2.93 GHz	Intel Demand Based Switching	✗
Processor cache	8 MB	Intel 64	✓
Processor cache type	Smart Cache	Intel Virtualization Technology (VT-x)	✓
Thermal Design Power (TDP)	130 W	Conflict-Free processor	✗
Box *	✓	Operational conditions	
Cooler included *	✓	Maximum operating temperature	67.9 °C
VID Voltage Range	0.8 - 1.375 V	Tcase	67.9 °C
Generation	9th Generation	Technical details	
Bus type	QPI	Bus bandwidth	4.8
CPU multiplier (bus/core ratio)	20	Bus type units	GT/s
Number of QPI links	1	Launch date	Q4'08
Memory bandwidth supported by processor (max)	25.6 GB/s	Processor cache	8192 KB
Processor codename	Bloomfield	Product type	Processor
Processor ARK ID	37147	Status	Discontinued
Memory		Maximum memory	24 GB
Maximum internal memory supported by processor	24 GB	Processor brand name	Intel Core i7
Memory types supported by processor	DDR3-SDRAM	Supported memory types	DDR3-SDRAM
Memory channels *	Triple-channel	Last change	63903513
ECC	✗	Product family	Previous Generation Intel Core i7 Processor
Graphics		Bus speed	4.8 GT/s
On-board graphics card *	✗		
Features			
Execute Disable Bit	✓		
Idle States	✓		

Features		Logistics data	
Thermal Monitoring Technologies	✘	Harmonized System (HS) code	8542310001
Market segment	Desktop	Packaging data	
Number of Processing Die Transistors	731 M	Package type	Retail box
Processing Die size	263 mm ²	Weight & dimensions	
Supported instruction sets	SSE4.2	Processor package size	42.5mm x 45mm
CPU configuration (max)	1	Other features	
Embedded options available	✘	Maximum internal memory	24 GB
		Maximum internal memory	24576 MB



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