

## Intel Core i7-965 processor 3.2 GHz 8 MB Smart Cache

**Brand :** Intel

**Product family:** Core

**Product code:**  
AT80601000918AA

**Product name :** i7-965

Intel® Core™ i7-965 Processor Extreme Edition  
(8M Cache, 3.20 GHz, 6.40 GT/s Intel® QPI)

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Conquer the world of extreme gaming with the fastest performing processor on the planet: the Intel® Core™ i7 processor Extreme Edition. With faster, intelligent multi-core technology that accelerates performance to match your workload, it delivers an incredible breakthrough in gaming performance.

But performance doesn't stop at gaming. You'll multitask 25 percent faster and unleash incredible digital media creation with up to 79 percent faster video encoding and up to 46 percent faster image rendering, plus incredible performance for photo retouching and editing.

In fact, you'll experience maximum performance for whatever you do, thanks to the combination of Intel® Turbo Boost technology and Intel® Hyper-Threading technology (Intel® HT technology), which activates full processing power exactly where and when you need it most.



Processor		Features	
Processor manufacturer *	Intel	Embedded options available	✗
Processor generation	Intel® Core™ i7	Physical Address Extension (PAE)	36 bit
Processor model *	i7-965	Export Control Classification Number (ECCN)	3A991.A.1
Processor base frequency *	3.2 GHz	Commodity Classification Automated Tracking System (CCATS)	NA
Processor family *	Intel® Core™ i7	<b>Processor special features</b>	
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 Extreme Edition Series	Enhanced Intel SpeedStep Technology	✓
Processor threads	8	Intel Trusted Execution Technology	✗
System bus rate	6.4 GT/s	Intel Enhanced Halt State	✓
Processor operating modes *	64-bit	Intel VT-x with Extended Page Tables (EPT)	✓
Processor boost frequency	3.46 GHz	Intel Demand Based Switching	✗
Processor cache	8 MB	Intel 64	✓
Processor cache type	Smart Cache	Intel Virtualization Technology (VT-x)	✓
Processor front side bus	1066 MHz	<b>Operational conditions</b>	
Thermal Design Power (TDP)	130 W	Tcase	67.9 °C
Box *	✗	<b>Technical details</b>	
Cooler included *	✗	Born on date	Q4'08
VID Voltage Range	0.8 - 1.375 V	Bus bandwidth	6.4
Generation	9th Generation	Bus type units	GT/s
Stepping	C0	Launch date	Q4'08
Bus type	QPI	Processor cache	8192 KB
CPU multiplier (bus/core ratio)	24	Processor core voltage	0.800-1.375 V
Number of QPI links	1	Product name	Intel Core i7-965 Extreme Edition (8M Cache, 3.20 GHz, 6.40 GT/s Intel QPI)
Memory bandwidth supported by processor (max)	25.6 GB/s	Product type	Processor
Processor codename	Bloomfield	Status	Discontinued
Processor code	SLBCJ		
Processor ARK ID	37149		
<b>Memory</b>			
Maximum internal memory supported by processor	24 GB		
Memory types supported by processor	DDR3-SDRAM		

Memory		Technical details	
Memory channels *	Triple-channel	Maximum memory	24 GB
ECC	✗	Processor brand name	Intel Core i7 Extreme Edition Intel Core i7 Processor Extreme Edition
Graphics		Supported memory types	DDR3-SDRAM
On-board graphics card *	✗	Last change	63903513
Features		Product family	Previous Generation Intel Core i7 Extreme Processor
Execute Disable Bit	✓	Bus speed	6.4 GT/s
Idle States	✓	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 <sup>2</sup>	Weight & dimensions	
Number of Graphics & IMC Die Transistors	731 M	Processor package size	42.5mm x 45mm
Supported instruction sets	SSE4.2	Other features	
CPU configuration (max)	1	Maximum internal memory	24 GB
		Maximum internal memory	24576 MB
		Cache memory	8 MB



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