

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

Brand : Intel

Product family: Core

Product code: BX80601965

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.¹

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	Physical Address Extension (PAE)	36 bit
Processor generation	Intel® Core™ i7	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	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 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)	✓
L3 cache speed	2.93 GHz	Conflict-Free processor	✗
Thermal Design Power (TDP)	130 W	Operational conditions	
Box *	✓	Tcase	67.9 °C
Cooler included *	✓	Technical details	
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)	22	Product type	Processor
Number of QPI links	1	Status	Discontinued
Memory bandwidth supported by processor (max)	25.6 GB/s	Maximum memory	24 GB
Processor codename	Bloomfield	Processor brand name	Intel Core i7 Extreme Edition Intel Core i7 Processor Extreme Edition
Processor ARK ID	37149	Supported memory types	DDR3-SDRAM
Memory		Last change	63903513
Maximum internal memory supported by processor	24 GB		
Memory types supported by processor	DDR3-SDRAM		
Memory channels *	Triple-channel		
ECC	✗		

Graphics		Technical details	
On-board graphics card *	✘	Product family	Previous Generation Intel Core i7 Extreme Processor
Features		Bus speed	6.4 GT/s
Execute Disable Bit	✔	Logistics data	
Idle States	✔	Harmonized System (HS) code	8542310001
Thermal Monitoring Technologies	✘	Packaging data	
Market segment	Desktop	Package type	Retail box
Number of Processing Die Transistors	731 M	Weight & dimensions	
Processing Die size	263 mm ²	Processor package size	42.5mm x 45mm
Supported instruction sets	SSE4.2	Other features	
CPU configuration (max)	1	On-board memory controller	✔
Embedded options available	✘	Maximum internal memory	24 GB
		Maximum internal memory	24576 MB



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