

# Intel Core i7-5960X processor 3 GHz 20 MB Smart Cache

**Brand :** Intel

**Product family:** Core

**Product code:**  
CM8064801547964

**Product name :** i7-5960X

Intel® Core™ i7-5960X Processor Extreme Edition  
(20M Cache, up to 3.50 GHz)

[Intel Core i7-5960X processor 3 GHz 20 MB Smart Cache:](#)

The latest Intel® microarchitecture on the 22 nm manufacturing process delivers significant performance advancements—including vastly improved graphics, battery life, and security—for a zero-compromise computing experience. With key features such as Intel® Hyper-Threading Technology, that allows each processor core to work on two tasks at the same time for greater multitasking, to the Intel® Iris™ graphics for stunning 3-D visuals and faster, more advanced video and photo editing, the 4th generation Intel® Core™ i7 processor delivers top-of-the-line performance for your most demanding tasks. Learn more about 2 in 1 and tablet devices featuring Intel Core processors.



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Quick Sync Video Technology	✗
Processor generation	5th gen Intel® Core™ i7	Intel® InTru™ 3D Technology	✗
Processor model *	i7-5960X	Intel® Wireless Display (Intel® WiDi)	✗
Processor base frequency *	3 GHz	Intel® Clear Video HD Technology (Intel® CVT HD)	✗
Processor family *	Intel® Core™ i7 X-series Extreme Edition	Intel® Insider™	✗
Processor cores *	8	Intel® Smart Cache	✓
Processor socket *	LGA 2011-v3	Intel® AES New Instructions (Intel® AES-NI)	✓
Component for	PC	Enhanced Intel SpeedStep Technology	✓
Processor lithography *	22 nm	Intel Trusted Execution Technology	✗
Processor series	Intel Core i7-5900 Desktop Extreme Edition Series	Intel® Turbo Boost Technology 2.0 frequency	3.5 GHz
Processor threads	16	Intel Enhanced Halt State	✓
Processor operating modes *	64-bit	Intel VT-x with Extended Page Tables (EPT)	✓
Processor boost frequency	3.5 GHz	Intel Demand Based Switching	✗
Processor cache	20 MB	Intel 64	✓
Processor cache type	Smart Cache	Intel Identity Protection Technology version	1.00
Thermal Design Power (TDP)	140 W	Intel Smart Response Technology version	1.00
Box *	✗	Intel Virtualization Technology (VT-x)	✓
Cooler included *	✗	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Generation	5th Generation	Conflict-Free processor	✓
Memory bandwidth supported by processor (max)	68 GB/s	Intel® vPro™ Platform Eligibility	✗
Processor codename	Haswell E	<b>Operational conditions</b>	
Processor ARK ID	82930	Tcase	66.8 °C
<b>Memory</b>		<b>Technical details</b>	
Maximum internal memory supported by processor	64 GB	Bus type units	GT/s
Memory types supported by processor	DDR4-SDRAM	Launch date	Q3'14
Memory clock speeds supported by processor	1333,1600,2133 MHz	Processor cache	20480 KB
Memory channels *	Quad-channel	Product type	Processor
ECC	✗	Status	Discontinued
<b>Graphics</b>		Maximum memory	64 GB
On-board graphics card *	✗	Processor brand name	Intel Core i7 X-series Intel Core i7 X-series processor
<b>Features</b>			
Execute Disable Bit	✓		
Idle States	✓		

Features		Technical details	
Thermal Monitoring Technologies	✓	Supported memory types	DDR4-SDRAM
Market segment	Desktop	Last change	63903513
Maximum number of PCI Express lanes	40	Product family	Intel High End Desktop Processors
PCI Express slots version	3.0	Bus speed	0 GT/s
Supported instruction sets	SSE4.2, AVX 2.0	<b>Logistics data</b>	
Scalability	1S	Harmonized System (HS) code	8542310001
CPU configuration (max)	1	<b>Packaging data</b>	
Embedded options available	✗	Package width	44 mm
PCI Express CEM revision	3.0	Package depth	140 mm
Export Control Classification Number (ECCN)	5A992C	Package height	117 mm
Commodity Classification Automated Tracking System (CCATS)	G077159	Package weight	130 g
<b>Processor special features</b>		Package type	Retail box
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	<b>Weight &amp; dimensions</b>	
Intel® Identity Protection Technology (Intel® IPT)	✓	Width	52.5 mm
Intel® Smart Response Technology	✓	Depth	45 mm
Intel® Turbo Boost Technology	2.0	Processor package size	52.5mm x 45mm
		<b>Other features</b>	
		Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
		Maximum internal memory	64 GB
		Maximum internal memory	65536 MB



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