

Intel Core i5-4460 processor 3.2 GHz 6 MB Smart Cache

Brand : Intel

Product family: Core

Product code:
CM8064601560722

Product name : i5-4460



Intel® Core™ i5-4460 Processor
(6M Cache, up to 3.40 GHz)

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Amazing performance and stunning visuals with a boost. Raise the bar on your PC experience with rich visuals plus an automatic burst of speed when you need it. The 4th generation Intel® Core™ i5 processor delivers amazing performance, stunning visuals, and built-in security for deeper protection.



Discover the thrill of an automatic burst of speed when you need it with Intel® Turbo Boost Technology 2.0. Experience your movies, photos, and games smoothly and seamlessly with a built-in suite of visual enhancements—and enjoy them even more with longer battery life.

Get a boost in your performance that you can truly see and feel, along with extra peace of mind from enhanced security. Because the only thing more amazing than Intel® technology is what you'll do with it.

Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Hyper Threading Technology (Intel® HT Technology)	✗
Processor generation	4th gen Intel® Core™ i5	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor model *	i5-4460	Intel® My WiFi Technology (Intel® MWT)	✓
Processor base frequency *	3.2 GHz	Intel® Turbo Boost Technology	2.0
Processor family *	Intel® Core™ i5	Intel® Quick Sync Video Technology	✓
Processor cores *	4	Intel® InTru™ 3D Technology	✓
Processor socket *	LGA 1150 (Socket H3)	Intel® Wireless Display (Intel® WiDi)	✓
Component for	PC	Intel FDI Technology	✓
Processor lithography *	22 nm	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor series	Intel Core i5-4400 Desktop series	Intel® Insider™	✓
Processor threads	4	Intel® AES New Instructions (Intel® AES-NI)	✓
System bus rate	5 GT/s	Enhanced Intel SpeedStep Technology	✓
Processor operating modes *	64-bit	Intel Trusted Execution Technology	✗
Processor boost frequency	3.4 GHz	Intel® Turbo Boost Technology 2.0 frequency	3.4 GHz
Processor cache	6 MB	Intel® Transactional Synchronization Extensions	✗
Processor cache type	Smart Cache	Intel Enhanced Halt State	✓
Thermal Design Power (TDP)	84 W	Intel VT-x with Extended Page Tables (EPT)	✓
Box *	✗	Intel® Secure Key	✓
Cooler included *	✗	Intel TSX-NI	✗
Generation	4th Generation	Intel Stable Image Platform Program (SIPP)	✗
Stepping	C0	Intel® OS Guard	✓
Bus type	DMI2	Intel 64	✓
Memory bandwidth supported by processor (max)	25.6 GB/s	Intel Identity Protection Technology version	1.00
Processor codename	Haswell	Intel Secure Key Technology version	1.00
Processor ARK ID	80817	Intel Small Business Advantage (SBA) version	1.00
Memory			
Maximum internal memory supported by processor	32 GB		
Memory types supported by processor	DDR3-SDRAM, DDR3L-SDRAM		
Memory clock speeds supported by processor	1333,1600 MHz		
Memory channels *	Dual-channel		
ECC	✗		

Graphics		Processor special features	
On-board graphics card *	✓	Intel Stable Image Platform Program (SIPP) version	0.00
On-board graphics card model *	Intel® HD Graphics 4600	Intel Virtualization Technology (VT-x)	✓
On-board graphics card memory	1.7 GB	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Maximum on-board graphics card memory	2 GB	Intel TSX-NI version	0.00
On-board graphics card outputs supported	Embedded DisplayPort (eDP), DisplayPort, HDMI, VGA (D-Sub)	Conflict-Free processor	✓
On-board graphics card base frequency	350 MHz	Intel® vPro™ Platform Eligibility	✗
On-board graphics card dynamic frequency (max)	1100 MHz	Operational conditions	
Number of displays supported (on-board graphics)	3	Tcase	72.72 °C
On-board graphics card DirectX version	11.2/12	Technical details	
On-board graphics card OpenGL version	4.3	Bus bandwidth	5
On-board graphics card maximum resolution (DisplayPort)	3840 x 2160 pixels	Bus type units	GT/s
On-board graphics card maximum resolution (eDP - Integrated Flat Panel)	3840 x 2160 pixels	Launch date	Q2'14
On-board graphics card maximum resolution (HDMI)	4096 x 2304 pixels	Maximum resolution & refresh rate (DisplayPort)	3840x2160@60Hz
On-board graphics card maximum resolution (VGA)	1920 x 1200 pixels	Maximum resolution & refresh rate (HDMI)	4096x2304@24Hz
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz	Maximum resolution & refresh rate (Integrated Flat Panel)	3840x2160@60Hz
On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)	60 Hz	Maximum resolution & refresh rate (VGA)	1920x1200@60Hz
On-board graphics card refresh rate at maximum resolution (HDMI)	24 Hz	Number of graphics cores	20
On-board graphics card refresh rate at maximum resolution (VGA)	60 Hz	Processor cache	6144 KB
On-board graphics card ID	0x412	Product type	Processor
Features		Status	Discontinued
Execute Disable Bit	✓	Maximum memory	32 GB
Idle States	✓	Processor brand name	Intel Core i5 Intel Core i5 Processor
Thermal Monitoring Technologies	✓	Supported memory types	DDR3-SDRAM, DDR3L-SDRAM
Market segment	Desktop	Last change	63903513
Maximum number of PCI Express lanes	16	Product family	4th Generation Intel Core i5 Processors
PCI Express slots version	3.0	Bus speed	5 GT/s
PCI Express configurations	1x16, 2x8, 1x8+2x4	Maximum graphics card memory	2 GB
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0	Processor ID	0x412
Scalability	1S	Logistics data	
CPU configuration (max)	1	Harmonized System (HS) code	8542310001
Embedded options available	✗	Packaging data	
Graphics & IMC lithography	22 nm	Package width	70 mm
Thermal solution specification	PCG 2013D	Package depth	116 mm
Export Control Classification Number (ECCN)	5A992C	Package height	101 mm
Commodity Classification Automated Tracking System (CCATS)	G077159	Package weight	373 g
		Package type	Retail box
Processor special features		Weight & dimensions	
Intel® Anti-Theft Technology (Intel® AT)	✓	Processor package size	37.5 x 37.5 mm
		Other features	
		Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
		Maximum internal memory	32 GB
		Maximum internal memory	32768 MB
		Graphics output	eDP/DP/HDMI/VGA
		Video decoding	✓



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