

Intel Core i5-8400 processor 2.8 GHz 9 MB Smart Cache

Brand : Intel

Product family: Core

Product code:
CM8068403358811

Product name : i5-8400

Intel® Core™ i5-8400 Processor
(9M Cache, up to 4.00 GHz)

Intel Core i5-8400. Processor family: Intel® Core™ i5, Processor socket: LGA 1151 (Socket H4), Processor lithography: 14 nm. Memory channels: Dual-channel, Maximum internal memory supported by processor: 64 GB, Memory types supported by processor: DDR4-SDRAM. On-board graphics card model: Intel® UHD Graphics 630, Maximum on-board graphics card memory: 64 GB, On-board graphics card outputs supported: DisplayPort, Embedded DisplayPort (eDP), HDMI. Market segment: Desktop, PCI Express configurations: 1x16, 2x8, 1x8+2x4, Supported instruction sets: SSE4.1, SSE4.2, AVX 2.0. Intel® Turbo Boost Technology 2.0 frequency: 4 GHz



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Hyper Threading Technology (Intel® HT Technology)	✗
Processor generation	8th gen Intel® Core™ i5	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor model *	i5-8400	Intel® Turbo Boost Technology	2.0
Processor base frequency *	2.8 GHz	Intel® Quick Sync Video Technology	✓
Processor family *	Intel® Core™ i5	Intel® InTru™ 3D Technology	✓
Processor cores *	6	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor socket *	LGA 1151 (Socket H4)	Intel® AES New Instructions (Intel® AES-NI)	✓
Component for	PC	Enhanced Intel SpeedStep Technology	✓
Processor lithography *	14 nm	Intel Trusted Execution Technology	✗
Processor threads	6	Intel® Memory Protection Extensions (Intel® MPX)	✓
System bus rate	8 GT/s	Intel® Device Protection Technology (Intel® DPT) with Boot Guard	✓
Processor operating modes *	64-bit	Intel® Turbo Boost Technology 2.0 frequency	4 GHz
Processor boost frequency	4 GHz	Intel® Transactional Synchronization Extensions	✗
Processor cache	9 MB	Intel Enhanced Halt State	✓
Processor cache type	Smart Cache	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Thermal Design Power (TDP)	65 W	Intel VT-x with Extended Page Tables (EPT)	✓
Box *	✗	Intel® Secure Key	✓
Cooler included *	✗	Intel TSX-NI	✗
Generation	8th Generation	Intel Stable Image Platform Program (SIPP)	✗
Bus type	DMI3	Intel® OS Guard	✓
Memory bandwidth supported by processor (max)	41.6 GB/s	Intel Clear Video Technology	✓
Processor codename	Coffee Lake		
Processor code	SR3QT		
Processor ARK ID	126687		
Memory			
Maximum internal memory supported by processor	64 GB		
Memory types supported by processor	DDR4-SDRAM		
Memory clock speeds supported by processor	2666 MHz		
Memory channels *	Dual-channel		

Memory		Processor special features	
ECC	✗	Intel Software Guard Extensions (Intel SGX)	✓
Graphics		Intel 64	✓
On-board graphics card *	✓	Intel Identity Protection Technology version	1.00
On-board graphics card model *	Intel® UHD Graphics 630	Intel Secure Key Technology version	1.00
Maximum on-board graphics card memory	64 GB	Intel Stable Image Platform Program (SIPP) version	0.00
On-board graphics card outputs supported	DisplayPort, Embedded DisplayPort (eDP), HDMI	Intel Virtualization Technology (VT-x)	✓
On-board graphics card base frequency	350 MHz	Intel Virtualization Technology for Directed I/O (VT-d)	✓
On-board graphics card dynamic frequency (max)	1050 MHz	Intel TSX-NI version	0.00
Number of displays supported (on-board graphics)	3	Conflict-Free processor	✓
On-board graphics card 4K support	✓	Intel® Optane™ Memory Ready	✓
On-board graphics card DirectX version	12.0	Intel® Boot Guard	✓
On-board graphics card OpenGL version	4.5	Intel® vPro™ Platform Eligibility	✗
On-board graphics card maximum resolution (DisplayPort)	4096 x 2304 pixels	Operational conditions	
On-board graphics card maximum resolution (eDP - Integrated Flat Panel)	4096 x 2304 pixels	Tjunction	100 °C
On-board graphics card maximum resolution (HDMI)	4096 x 2304 pixels	Technical details	
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz	Bus bandwidth	8
On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)	60 Hz	Bus type units	GT/s
On-board graphics card refresh rate at maximum resolution (HDMI)	24 Hz	Launch date	Q4'17
On-board graphics card ID	0x3E92	Maximum resolution & refresh rate (DisplayPort)	4096x2304@60Hz
Number of execution units	23	Maximum resolution & refresh rate (HDMI)	4096x2304@24Hz
Features		Maximum resolution & refresh rate (Integrated Flat Panel)	4096x2304@60Hz
Execute Disable Bit	✓	Processor cache	9216 KB
Idle States	✓	Product type	Processor
Thermal Monitoring Technologies	✓	Status	Discontinued
Market segment	Desktop	Maximum memory	128 GB
Maximum number of PCI Express lanes	16	Processor brand name	8th Gen Intel Core i5 8th Gen Intel Core i5 Processor
PCI Express slots version	3.0	Supported memory types	DDR4-SDRAM
PCI Express configurations	1x16, 2x8, 1x8+2x4	Last change	63903513
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0	Product family	Intel Core Processors
Scalability	1S	Bus speed	8 GT/s
CPU configuration (max)	1	Maximum graphics card memory	64 GB
Embedded options available	✗	Processor ID	0x3E92
Thermal solution specification	PCG 2015C	Logistics data	
PCI Express CEM revision	3.0	Harmonized System (HS) code	8542310001
Export Control Classification Number (ECCN)	5A992C	Packaging data	
Commodity Classification Automated Tracking System (CCATS)	G077159	Package type	Retail box
		Weight & dimensions	
		Processor package size	37.5 x 37.5 mm
		Other features	
		Maximum internal memory	128 GB
		Maximum internal memory	65536 MB



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