

Intel Core i5-4210U processor 1.7 GHz 3 MB Smart Cache

Brand : Intel

Product family: Core

Product code:
CL8064701477802

Product name : i5-4210U



Intel® Core™ i5-4210U Processor
(3M Cache, up to 2.70 GHz)

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Intel® Quick Sync Video

Intel® Quick Sync Video delivers fast conversion of video for portable media players, online sharing, and video editing and authoring.

Intel® InTru™ 3D Technology

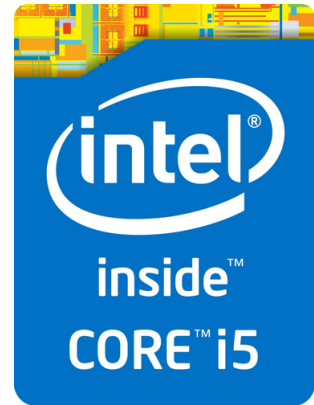
Intel® InTru™ 3D Technology provides stereoscopic 3-D Blu-ray* playback in full 1080p resolution over HDMI* 1.4 and premium audio.

Intel® Insider™

Intel® Insider™ delivers premium HD content to an Ultrabook™ or PC.

Intel® Wireless Display

Intel® Wireless Display is technology that enables wireless streaming of movies, photos, websites, and more from an Ultrabook™ or PC to an HDTV.



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 *	i5-4210U	Intel Smart Connect Technology	✓
Processor base frequency *	1.7 GHz	Intel® Turbo Boost Technology	2.0
Processor family *	Intel® Core™ i5	Intel® Quick Sync Video Technology	✓
Processor cores *	2	Intel® InTru™ 3D Technology	✓
Processor socket *	BGA 1168	Intel® Wireless Display (Intel® WiDi)	✓
Component for	Laptop	Intel FDI Technology	✗
Processor lithography *	22 nm	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor series	Intel Core i5-4200 Mobile series	Intel® Insider™	✓
Processor threads	4	Intel® Smart Cache	✓
System bus rate	5 GT/s	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor operating modes *	64-bit	Enhanced Intel SpeedStep Technology	✓
Processor boost frequency	2.7 GHz	Intel Trusted Execution Technology	✗
Processor cache	3 MB	Intel® Turbo Boost Technology 2.0 frequency	2.7 GHz
Processor cache type	Smart Cache	Intel® Transactional Synchronization Extensions	✗
Thermal Design Power (TDP)	15 W	Intel Enhanced Halt State	✓
Box *	✗	Intel VT-x with Extended Page Tables (EPT)	✓
Cooler included *	✗	Intel® Secure Key	✓
Generation	4th Generation	Intel TSX-NI	✗
Stepping	D0	Intel Rapid Storage Technology	✓
Bus type	DMI2		
Memory bandwidth supported by processor (max)	25.6 GB/s		
Processor codename	Haswell		
Processor code	SR1EF		
Processor ARK ID	81016		

Memory		Processor special features	
Maximum internal memory supported by processor	16 GB	Intel® Matrix Storage Technology (Intel® MST)	✗
Memory types supported by processor	DDR3L-SDRAM, LPDDR3-SDRAM	Intel® High Definition Audio (Intel® HD Audio)	✓
Memory clock speeds supported by processor	1333,1600 MHz	Intel ME Firmware Version	9.5
Memory channels *	Dual-channel	Intel 64	✓
ECC	✗	Intel Identity Protection Technology version	1.00
Graphics		Intel Secure Key Technology version	1.00
On-board graphics card *	✓	Intel Smart Connect Technology version	1.00
On-board graphics card model *	Intel® HD Graphics 4400	Intel Virtualization Technology (VT-x)	✓
Maximum on-board graphics card memory	2 GB	Intel Virtualization Technology for Directed I/O (VT-d)	✗
On-board graphics card outputs supported	DisplayPort, Embedded DisplayPort (eDP), HDMI	Intel TSX-NI version	0.00
On-board graphics card base frequency	200 MHz	Conflict-Free processor	✓
On-board graphics card dynamic frequency (max)	1000 MHz	Intel® vPro™ Platform Eligibility	✗
Number of displays supported (on-board graphics)	3	Operational conditions	
On-board graphics card DirectX version	12	Tjunction	100 °C
On-board graphics card OpenGL version	4.3	Technical details	
On-board graphics card maximum resolution (DisplayPort)	3200 x 2000 pixels	Born on date	Q2'14
On-board graphics card maximum resolution (HDMI)	3280 x 2000 pixels	Bus bandwidth	5
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz	Bus type units	GT/s
On-board graphics card refresh rate at maximum resolution (HDMI)	60 Hz	Graphics max dynamic frequency	1.00 GHz
On-board graphics card ID	0xA16	Launch date	Q2'14
Features		Maximum resolution & refresh rate (DisplayPort)	3200x2000@60Hz
Execute Disable Bit	✓	Maximum resolution & refresh rate (HDMI)	3280x2000@60Hz
Idle States	✓	OpenGL support	✓
Thermal Monitoring Technologies	✓	Processor cache	3072 KB
Market segment	Mobile	Product name	Intel Core i5-4210U (3M Cache, up to 2.70 GHz)
Maximum number of PCI Express lanes	12	Product type	System on Chip
PCI Express slots version	2.0	Status	Launched
PCI Express configurations	4x1, 2x4	Video compression formats	✓
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0	Maximum graphics card memory	1740 MB
CPU configuration (max)	1	Maximum memory	16 GB
Embedded options available	✗	Processor brand name	Intel Core i5 Intel Core i5 Processor
PCI Express CEM revision	2.0	Supported memory types	DDR3L-SDRAM, LPDDR3-SDRAM
Export Control Classification Number (ECCN)	5A992CN3	Last change	63903513
Commodity Classification Automated Tracking System (CCATS)	G071701++	Product family	4th Generation Intel Core i5 Processors
I/O configuration		PCI Support	No
USB version	3.2 Gen 1 (3.1 Gen 1)	Bus speed	5 GT/s
USB ports quantity	4	Maximum graphics card memory	2 GB
Total number of SATA connectors	4	Processor ID	0xA16
Number of SATA III connectors	4	Logistics data	
Integrated LAN	✗	Harmonized System (HS) code	8542310001
Integrated IDE	✗	Weight & dimensions	
General Purpose IO	Yes	Processor package size	40mm x 24mm x 1.5mm
UART	✓	Other features	
		SATA revision	3.0
		Intel® Virtualization Technology (Intel® VT)	VT-x
		Maximum internal memory	16 GB
		Maximum internal memory	16384 MB
		Graphics output	eDP/DP/HDMI
		Cache memory	3 MB
		Video decoding	✓

Processor special features

Intel® Anti-Theft Technology
(Intel® AT)



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