



## HP Intel Core i5-4210M processor 2.6 GHz 3 MB Smart Cache

**Brand :** HP

**Product code:** 768420-001

**Product name :** Intel Core i5-4210M

Intel Core i5-4210M, 3M Cache, 2.6 GHz, 5 GT/s DMI2

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HP Intel Core i5-4210M. Processor family: Intel® Core™ i5, Processor socket: PGA946, Processor lithography: 22 nm. Memory channels: Dual-channel, Maximum internal memory supported by processor: 32 GB, Memory types supported by processor: DDR3L-SDRAM. On-board graphics card model: Intel® HD Graphics 4600, Maximum on-board graphics card memory: 2 GB, On-board graphics card outputs supported: DisplayPort, Embedded DisplayPort (eDP), HDMI. Market segment: Mobile, PCI Express configurations: 1x16, 1x8+2x4, 2x8, Supported instruction sets: AVX 2.0, SSE4.1, SSE4.2. Compatibility: ZBook 15 G2 ProBook 650 G1

Processor		Graphics	
Processor generation	4th gen Intel® Core™ i5	On-board graphics card refresh rate at maximum resolution (HDMI)	60 Hz
Processor model *	i5-4210M	On-board graphics card refresh rate at maximum resolution (VGA)	60 Hz
Processor base frequency *	2.6 GHz	<b>Features</b>	
Processor family *	Intel® Core™ i5		
Processor cores *	2	Execute Disable Bit	✓
Processor socket *	PGA946	Thermal Monitoring Technologies	✓
Component for	Laptop	Market segment	Mobile
Processor lithography *	22 nm	Maximum number of PCI Express lanes	16
Processor series	Intel Core i5-4200 Mobile series	PCI Express slots version	3.0
Processor threads	4	PCI Express configurations	1x16, 1x8+2x4, 2x8
System bus rate	5 GT/s	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Processor operating modes *	64-bit	CPU configuration (max)	1
Processor boost frequency	3.2 GHz	Embedded options available	✗
Processor cache	3 MB	<b>Processor special features</b>	
Processor cache type	Smart Cache		
Thermal Design Power (TDP)	37 W	Intel® Anti-Theft Technology (Intel® AT)	✓
Stepping	C0	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Bus type	DMI2	Intel® Identity Protection Technology (Intel® IPT)	✓
Memory bandwidth supported by processor (max)	25.6 GB/s	Intel® Turbo Boost Technology	2.0
Processor codename	Haswell	Intel® Quick Sync Video Technology	✓
<b>Memory</b>		Intel® InTru™ 3D Technology	✓
Maximum internal memory supported by processor	32 GB	Intel® Wireless Display (Intel® WiDi)	✓
Memory types supported by processor	DDR3L-SDRAM	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Memory clock speeds supported by processor	1333,1600 MHz	Intel® Insider™	✓
Memory channels *	Dual-channel	Intel® AES New Instructions (Intel® AES-NI)	✓
ECC	✗	Enhanced Intel SpeedStep Technology	✓
<b>Graphics</b>		Intel Trusted Execution Technology	✗
On-board graphics card *	✓	Intel VT-x with Extended Page Tables (EPT)	✓
On-board graphics card model *	Intel® HD Graphics 4600	Intel® Secure Key	✓
Maximum on-board graphics card memory	2 GB	Intel TSX-NI	✗
On-board graphics card outputs supported	DisplayPort, Embedded DisplayPort (eDP), HDMI	Intel 64	✓
On-board graphics card base frequency	400 MHz		

Graphics		Processor special features	
On-board graphics card dynamic frequency (max)	1150 MHz	Intel Virtualization Technology (VT-x)	✓
Number of displays supported (on-board graphics)	3	Intel Virtualization Technology for Directed I/O (VT-d)	✗
On-board graphics card DirectX version	11.2/12	Conflict-Free processor	✓
On-board graphics card OpenGL version	4.3	Intel® vPro™ Platform Eligibility	✗
On-board graphics card maximum resolution (DisplayPort)	3840 x 2160 pixels	Operational conditions	
On-board graphics card maximum resolution (HDMI)	3840 x 2160 pixels	Tjunction	100 °C
On-board graphics card maximum resolution (VGA)	2880 x 1800 pixels	Other features	
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz	Compatibility	ZBook 15 G2 ProBook 650 G1

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