HP Intel Core i5-4310M processor 2.7 GHz 3 MB Smart Cache

Brand : HP **Product code:** 765143-001

Product name : Intel Core i5-4310M

Intel Core i5-4310M, 3M Cache, 2.7 GHz, 5 GT/s DMI2

HP Intel Core i5-4310M processor 2.7 GHz 3 MB Smart Cache:

Options, accessories, services and support for all your HP and Compaq products.
HP Intel Core i5-4310M. Processor family: Intel® Core™ i5, Processor lithography: 22 nm, Processor model: i5-4310M. 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: ProBook 650 G1

Processor	
Processor generation	4th gen Intel® Core™ i5
Processor model *	i5-4310M
Processor base frequency *	2.7 GHz
Processor family *	Intel® Core™ i5
Processor cores *	2
Component for	Laptop
Processor lithography *	22 nm
Processor series	Intel Core i5-4300 Mobile series
Processor threads	4
System bus rate	5 GT/s
Processor operating modes *	64-bit
Processor boost frequency	3.4 GHz
Processor cache	3 MB
Processor cache type	Smart Cache
Thermal Design Power (TDP)	37 W
Bus type	DMI2
Memory bandwidth supported by processor (max)	25.6 GB/s
Processor codename	Haswell

Memory	
Maximum internal memory supported by processor	32 GB
Memory types supported by processor	DDR3L-SDRAM
Memory clock speeds supported by processor	1333,1600 MHz
Memory channels *	Dual-channel
ECC	✗

Graphics	
On-board graphics card *	✓
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
On-board graphics card base frequency	400 MHz
On-board graphics card dynamic frequency (max)	1250 MHz

Graphics	
On-board graphics card refresh rate at maximum resolution (HDMI)	60 Hz
On-board graphics card refresh rate at maximum resolution (VGA)	60 Hz

Features	
Execute Disable Bit	✓
Thermal Monitoring Technologies	✓
Market segment	Mobile
Maximum number of PCI Express lanes	16
PCI Express slots version	3.0
PCI Express configurations	1x16, 1x8+2x4, 2x8
Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
CPU configuration (max)	1
Embedded options available	✗

Processor special features	
Intel® Anti-Theft Technology (Intel® AT)	✓
Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Intel® Identity Protection Technology (Intel® IPT)	✓
Intel® Turbo Boost Technology	2.0
Intel® Quick Sync Video Technology	✓
Intel® InTru™ 3D Technology	✓
Intel® Wireless Display (Intel® WiDi)	✓
Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Intel® Insider™	✓
Intel® AES New Instructions (Intel® AES-NI)	✓
Enhanced Intel SpeedStep Technology	✓
Intel Trusted Execution Technology	✓
Intel VT-x with Extended Page Tables (EPT)	✓
Intel® Secure Key	✓
Intel TSX-NI	✗
Intel 64	✓

Graphics	
Number of displays supported (on-board graphics)	3
On-board graphics card DirectX version	11.2/12
On-board graphics card OpenGL version	4.3
On-board graphics card maximum resolution (DisplayPort)	3840 x 2160 pixels
On-board graphics card maximum resolution (HDMI)	3840 x 2160 pixels
On-board graphics card maximum resolution (VGA)	2880 x 1800 pixels
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz

Processor special features	
Intel Virtualization Technology (VT-x)	✔
Intel Virtualization Technology for Directed I/O (VT-d)	✔
Conflict-Free processor	✔
Intel® vPro™ Platform Eligibility	✔

Operational conditions	
Tjunction	100 °C

Other features	
Compatibility	ProBook 650 G1

Disclaimer. The information published here (the "Information") is based on sources that can be considered reliable, typically the manufacturer, but this Information is provided "AS IS" and without guarantee of correctness or completeness. The Information is only indicative and can be changed at any time without notification. No rights can be based on the Information. Suppliers or aggregators of this Information do not accept any liability with regard to the content of (web)pages and other documents, including its Information. The publisher of the Information can not be held liable for the content of 3rd party websites that are linking this Information or are linked to from this Information. You as the User of the Information are solely responsible for the choice and usage of this Information. You are not entitled to transfer, copy or otherwise multiply or distribute the Information. You are obliged to follow the directions of the copyright owner(s) with regard to the use of the Information. Exclusively Dutch law is applicable. With regard to price and stock data on the site, the publisher followed a number of starting points, which are not necessarily relevant for your private or business circumstances. Therefore, the price and stock data are only indicative and are subject to changes. You are personally responsible for the way you use and apply this information. As a user of the Information or sites or documents in which this Information is included, you will adhere to standard fair use including avoidance of spamming, ripping, intellectual-property violations, privacy violations, and any other illegal activity.

Publication date: 25-JUL-2025. Prints or copies of Information are only valid on the printed Publication date