



HP EliteBook 840 G1 Intel® Core™ i5 i5-4310U Laptop 35,6 cm (14") HD 4 GB DDR3L-SDRAM 128 GB SSD Windows 7 Professional Black, Silver

Brand : HP

Product family: EliteBook

Product code: J7Z22AW#ABH

Product name : 840 G1



Intel Core i5-4310U (3M Cache, 2 GHz), 14" HD (1366 x 768) LED, 4GB DDR3L, 128GB SSD, Intel HD Graphics 4400, Gigabit Ethernet, WLAN 802.11a/b/g/n, Bluetooth 4.0, HD Webcam, Windows 7 Pro 64 bit HP EliteBook 840 G1. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i5, Processor model: i5-4310U, Processor frequency: 2 GHz. Display diagonal: 35,6 cm (14"), HD type: HD, Display resolution: 1366 x 768 pixels. Internal memory: 4 GB, Internal memory type: DDR3L-SDRAM. Total storage capacity: 128 GB, Storage media: SSD. On-board graphics card model: Intel® HD Graphics 4400. Operating system installed: Windows 7 Professional. Product colour: Black, Silver

Design		Processor special features	
Product type *	Laptop	Intel® Wireless Display (Intel® WiDi)	✓
Product colour *	Black, Silver	Intel® My WiFi Technology (Intel® MWT)	✗
Form factor *	Clamshell	Intel Smart Connect Technology	✓
Country of origin	China	Intel® Anti-Theft Technology (Intel® AT)	✓
Display		Intel® Smart Response Technology	✓
Display diagonal *	35,6 cm (14")	Intel® Identity Protection Technology (Intel® IPT)	✓
Display resolution *	1366 x 768 pixels	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Touchscreen *	✗	Intel® Turbo Boost Technology	2.0
HD type	HD	Intel® Small Business Advantage (Intel® SBA)	✓
LED backlight	✓	Intel® Matrix Storage Technology (Intel® MST)	✗
Native aspect ratio	16:9	Intel® High Definition Audio (Intel® HD Audio)	✓
Processor		Enhanced Intel SpeedStep Technology	✓
Processor manufacturer *	Intel	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor family *	Intel® Core™ i5	Intel Clear Video Technology	✗
Processor generation	4th gen Intel® Core™ i5	Intel® InTru™ 3D Technology	✓
Processor model *	i5-4310U	Intel® Insider™	✓
Processor cores	2	Intel® Quick Sync Video Technology	✓
Processor threads	4	Intel Flex Memory Access	✗
Processor boost frequency	3 GHz	Intel® Smart Cache	✓
Processor frequency *	2 GHz	Intel® AES New Instructions (Intel® AES-NI)	✓
System bus rate	5 GT/s	Intel Trusted Execution Technology	✓
Processor cache	3 MB	Intel Enhanced Halt State	✓
Processor cache type	Smart Cache	Intel VT-x with Extended Page Tables (EPT)	✓
Processor socket	BGA 1168	Intel Demand Based Switching	✗
Processor lithography	22 nm	Intel® Secure Key	✓
Processor operating modes	64-bit		
Processor series	Intel Core i5-4300 Mobile series		
Processor codename	Haswell		
Bus type	DMI2		
FSB Parity	✗		
Stepping	D0		
Thermal Design Power (TDP)	15 W		
Tjunction	100 °C		
Maximum number of PCI Express lanes	12		

Processor		Processor special features	
PCI Express slots version	2.0	Intel TSX-NI	✗
PCI Express configurations	4x1, 2x4	Intel Stable Image Platform Program (SIPP)	✓
ECC supported by processor	✗	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
Memory		Intel 64	✓
Internal memory *	4 GB	Execute Disable Bit	✓
Internal memory type	DDR3L-SDRAM	Idle States	✓
Memory clock speed	1600 MHz	Thermal Monitoring Technologies	✓
Memory layout (slots x size)	1 x 4 GB	Processor package size	40 x 24 x 1.5 mm
Memory slots	2x SO-DIMM	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Maximum internal memory *	16 GB	Processor code	SR1EE
Storage		CPU configuration (max)	1
Total storage capacity *	128 GB	Embedded options available	✗
Storage media *	SSD	UART	✓
Number of SSDs installed	1	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Solid-state drive capacity	128 GB	Intel Smart Connect Technology version	1,00
Optical drive type *	✗	Intel Identity Protection Technology version	1,00
Card reader integrated	✓	Intel Smart Response Technology version	1,00
Compatible memory cards	SD	Intel Stable Image Platform Program (SIPP) version	1,00
Graphics		Intel Secure Key Technology version	1,00
Discrete graphics card model *	Not available	Intel Small Business Advantage (SBA) version	1,00
On-board graphics card *	✓	Intel ME Firmware Version	9.5
Discrete graphics card *	✗	Intel TSX-NI version	0,00
On-board graphics card family	Intel® HD Graphics	Intel Virtualization Technology (VT-x)	✓
On-board graphics card model *	Intel® HD Graphics 4400	Intel Dual Display Capable Technology	✗
On-board graphics card base frequency	200 MHz	Intel FDI Technology	✗
On-board graphics card dynamic frequency (max)	1100 MHz	Intel Rapid Storage Technology	✓
Maximum on-board graphics card memory	1,74 GB	Intel Fast Memory Access	✗
On-board graphics card DirectX version	12	Processor ARK ID	80343
On-board graphics card ID	0xA16	Conflict-Free processor	✓
Audio		Battery	
Audio system	DTS Studio Sound	Battery technology	Lithium-Ion (Li-Ion)
Number of built-in speakers	2	Number of battery cells	3
Built-in microphone	✓	Battery capacity *	50 Wh
Camera		Power	
Front camera	✓	AC adapter power	45 W
Network		DC-in jack	✓
Wi-Fi	✓	Security	
Wi-Fi standards	802.11a, 802.11b, 802.11g	Cable lock slot	✓
Ethernet LAN	✓	Fingerprint reader	✓
Ethernet LAN data rates	10,100,1000 Mbit/s	Sustainability	
Bluetooth	✓	Sustainability certificates	ENERGY STAR
Bluetooth version	4.0	Weight & dimensions	
Ports & interfaces		Width	338,9 mm
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	4	Depth	237 mm
Ethernet LAN (RJ-45) ports	1	Height	21 mm
DisplayPorts quantity	1	Weight *	1,58 kg
DVI port	✗		
VGA (D-Sub) ports quantity	1		
S/PDIF out port	✗		
Microphone in	✗		
Combo headphone/mic port	✓		

Ports & interfaces		Packaging content	
Docking connector	✓	AC adapter included *	✓
ExpressCard slot	✗	Cables included	AC
CardBus PCMCIA slot type	✗	Warranty card	✓
SmartCard slot	✗	Other features	
Total number of SATA connectors	4	LightScribe	✗
Number of SATA III connectors	4	3D	✗
Keyboard		Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
Pointing device	Touchpad	Intel segment tagging	Enterprise
Numeric keypad *	✗		
Spill-resistant keyboard	✓		
Windows keys	✓		
Keyboard layout	QWERTY		
Software			
Operating system architecture	64-bit		
Recovery operating system	Windows 8.1 Pro		
Operating system installed *	Windows 7 Professional		

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