#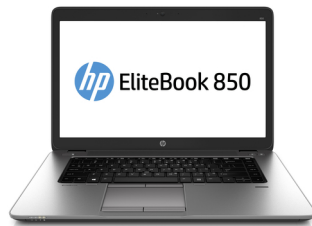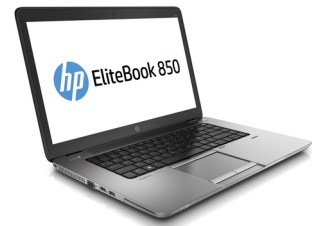 HP EliteBook 850 G1 Intel® Core™ i5 i5-4200U Laptop 39,6 cm (15.6") 4 GB DDR3L-SDRAM 500 GB HDD Windows 7 Professional Black, Silver

Brand : HP   **Product family:** EliteBook   **Product code:** D8H44AV

Product name : 850 G1

Intel Core i5-4200U Processor (3M Cache, up to 2.60 GHz), 4GB DDR3 1600MHz, 500GB SATA HDD, 32GB Flash, 15.6" HD LED 1366 x 768, Gigabit LAN, WLAN, Bluetooth, WebCam, Windows 7 Professional 32-bit / Windows 8.1 Pro

HP EliteBook 850 G1. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i5, Processor model: i5-4200U, Processor frequency: 1,6 GHz. Display diagonal: 39,6 cm (15.6"), Display resolution: 1366 x 768 pixels. Internal memory: 4 GB, Internal memory type: DDR3L-SDRAM. Total storage capacity: 500 GB, Storage media: HDD. On-board graphics card model: Intel® HD Graphics 4400. Operating system installed: Windows 7 Professional. Product colour: Black, Silver. Weight: 1,88 kg

Design

Product type *	Laptop
Product colour *	Black, Silver
Form factor *	Clamshell
Country of origin	China

Display

Display diagonal *	39,6 cm (15.6")
Display resolution *	1366 x 768 pixels
Touchscreen *	✗
HD type	Not supported
LED backlight	✔
Native aspect ratio	16:9
Display surface	Matt

Processor

Processor manufacturer *	Intel
Processor family *	Intel® Core™ i5
Processor generation	4th gen Intel® Core™ i5
Processor model *	i5-4200U
Processor cores	2
Processor threads	4
Processor boost frequency	2,6 GHz
Processor frequency *	1,6 GHz
Processor cache	3 MB
Processor cache type	Smart Cache
Processor socket	BGA 1168
Processor lithography	22 nm
Processor operating modes	64-bit
Processor series	Intel Core i5-4200 Mobile series
Processor codename	Haswell
Bus type	DMI2
FSB Parity	✗
Stepping	C0

Software

Recovery operating system	Windows 8.1 Pro
Drivers included	✔
Operating system installed *	Windows 7 Professional

Processor special features

Intel® Wireless Display (Intel® WiDi)	✔
Intel® My WiFi Technology (Intel® MWT)	✔
Intel Smart Connect Technology	✔
Intel® Anti-Theft Technology (Intel® AT)	✔
Intel® Identity Protection Technology (Intel® IPT)	✔
Intel® Hyper Threading Technology (Intel® HT Technology)	✔
Intel® Turbo Boost Technology	2.0
Intel® Matrix Storage Technology (Intel® MST)	✗
Intel® High Definition Audio (Intel® HD Audio)	✔
Enhanced Intel SpeedStep Technology	✔
Intel® Clear Video HD Technology (Intel® CVT HD)	✔
Intel Clear Video Technology	✗
Intel® InTru™ 3D Technology	✔
Intel® Insider™	✔
Intel® Quick Sync Video Technology	✔
Intel Flex Memory Access	✗
Intel® AES New Instructions (Intel® AES-NI)	✔
Intel Trusted Execution Technology	✗
Intel Enhanced Halt State	✔

Processor

Thermal Design Power (TDP)	15 W
Tjunction	100 °C
Maximum number of PCI Express lanes	12
PCI Express slots version	2.0
PCI Express configurations	1x4, 2x4
ECC supported by processor	✗

Memory

Internal memory *	4 GB
Internal memory type	DDR3L-SDRAM
Memory clock speed	1600 MHz
Memory form factor	SO-DIMM
Memory layout (slots x size)	1 x 4 GB
Memory slots	2x SO-DIMM
Maximum internal memory *	16 GB

Storage

Total storage capacity *	500 GB
Storage media *	HDD
Number of HDDs installed	1
HDD capacity	500 GB
HDD interface	SATA
HDD speed	7200 RPM
HDD size	2.5"
Number of SSDs installed	1
SSD capacity	32 GB
Optical drive type *	✗
Card reader integrated	✔
Compatible memory cards	SD, SDHC, SDXC

Graphics

Discrete graphics card model *	Not available
On-board graphics card *	✔
Discrete graphics card *	✗
On-board graphics card family	Intel® HD Graphics
On-board graphics card model *	Intel® HD Graphics 4400
On-board graphics card base frequency	200 MHz
On-board graphics card dynamic frequency (max)	1000 MHz
Maximum on-board graphics card memory	1,74 GB
On-board graphics card DirectX version	12
On-board graphics card ID	0xA16
Number of discrete graphics cards supported	1

Audio

Audio system	DTS Studio Sound
Number of built-in speakers	2
Built-in microphone	✔

Camera

Front camera	✔

Network

Wi-Fi	✔
Wi-Fi standards	Wi-Fi 5 (802.11ac)
Ethernet LAN	✔
Ethernet LAN data rates	10,100,1000 Mbit/s
Bluetooth	✔
Bluetooth version	4.0

Processor special features

Intel VT-x with Extended Page Tables (EPT)	✔
Intel Demand Based Switching	✗
Intel® Secure Key	✔
Intel TSX-NI	✗
Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
Intel 64	✔
Execute Disable Bit	✔
Idle States	✔
Thermal Monitoring Technologies	✔
Processor package size	40 x 24 x 1.5 mm
Supported instruction sets	AVX 2.0
Processor code	SR170
CPU configuration (max)	1
Embedded options available	✗
Intel Virtualization Technology for Directed I/O (VT-d)	✗
Intel Smart Connect Technology version	1,00
Intel Identity Protection Technology version	1,00
Intel Secure Key Technology version	1,00
Intel ME Firmware Version	9.5
Intel TSX-NI version	0,00
Intel Virtualization Technology (VT-x)	✔
Intel Dual Display Capable Technology	✗
Intel FDI Technology	✗
Intel Rapid Storage Technology	✔
Intel Fast Memory Access	✗
Processor ARK ID	75459
Conflict-Free processor	✔

Battery

Battery technology	Lithium-Ion (Li-Ion)
Number of battery cells	3
Battery capacity	4400 mAh
Battery capacity *	50 Wh
Battery voltage	11,1 V

Power

AC adapter power	65 W
AC adapter frequency	50 - 60 Hz
AC adapter input voltage	100 - 240 V
DC-in jack	✔

Security

Cable lock slot	✔
Password protection	✔

Operational conditions

Operating temperature (T-T)	5 - 35 °C
Storage temperature (T-T)	-15 - 60 °C
Operating relative humidity (H-H)	20 - 85%
Storage relative humidity (H-H)	10 - 90%
Operating altitude	0 - 3050 m
Non-operating altitude	0 - 4570 m

Sustainability

Sustainability certificates	ENERGY STAR

Ports & interfaces

USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	4
Ethernet LAN (RJ-45) ports	1
DisplayPorts quantity	1
DVI port	✘
VGA (D-Sub) ports quantity	1
S/PDIF out port	✘
Microphone in	✘
Combo headphone/mic port	✔
Docking connector	✔
ExpressCard slot	✘
CardBus PCMCIA slot type	✘
SmartCard slot	✘
Total number of SATA connectors	4
Number of SATA III connectors	4
USB Sleep-and-Charge	✔
USB Sleep-and-Charge ports	1

Keyboard

Pointing device	Touchpad + Pointing Stick
Numeric keypad *	✘
Spill-resistant keyboard	✔
Windows keys	✔

Software

Operating system architecture	32-bit

Weight & dimensions

Width	375,5 mm
Depth	253,6 mm
Height	21,4 mm
Weight *	1,88 kg

Packaging content

AC adapter included *	✔
Manual	✔
Quick start guide	✔
Warranty card	✔
Power cord included	✔

Other features

LightScribe	✘
3D	✘
Maximum internal memory (64-bit)	16 GB
Intel® Virtualization Technology (Intel® VT)	VT-x
Intel segment tagging	Enterprise

Catalog Object Cloud