



HP EliteBook 8540w Intel® Core™ i7 i7-640M 39,6 cm (15.6") Full HD 8 GB DDR3-SDRAM 500 GB HDD NVIDIA® Quadro® FX 880M Wi-Fi 4 (802.11n) Windows 7 Professional

Brand : HP

Product family: EliteBook

Article code: WD740EA

Product name : 8540w



HP EliteBook 8540w. Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-640M, Processor frequency: 2,8 GHz. Display diagonal: 39,6 cm (15.6"), HD type: Full HD, Display resolution: 1920 x 1080 pixels. Internal memory: 8 GB, Internal memory type: DDR3-SDRAM. Total storage capacity: 500 GB, Storage media: HDD, Optical drive type: Blu-Ray DVD Combo. On-board graphics card model: Intel® HD Graphics, Discrete graphics card model: NVIDIA® Quadro® FX 880M. Operating system installed: Windows 7 Professional

Design		Keyboard	
Form factor *	Clamshell	Pointing device	Touchpad
Country of origin	China	Numeric keypad *	✓
Display		Spill-resistant keyboard	✓
Display diagonal *	39,6 cm (15.6")	Full-size keyboard	✓
Display resolution *	1920 x 1080 pixels	Keyboard layout	QWERTZ
HD type	Full HD	Software	
Display number of colors	16.78 million colours	Operating system architecture	64-bit
LED backlight	✓	Operating system installed *	Windows 7 Professional
Native aspect ratio	16:9	Processor special features	
Display surface	Matt	Intel® Wireless Display (Intel® WiDi)	✗
Processor		Intel® My WiFi Technology (Intel® MWT)	✗
Processor manufacturer *	Intel	Intel® Anti-Theft Technology (Intel® AT)	✗
Processor family *	Intel® Core™ i7	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor generation	Intel® Core™ i7	Intel® Turbo Boost Technology	1.0
Processor model *	i7-640M	Enhanced Intel SpeedStep Technology	✓
Processor cores	2	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor threads	4	Intel Clear Video Technology	✓
Processor boost frequency	3,46 GHz	Intel® InTru™ 3D Technology	✗
Processor frequency *	2,8 GHz	Intel® Insider™	✗
System bus rate	2,5 GT/s	Intel® Quick Sync Video Technology	✗
Processor cache	4 MB	Intel Flex Memory Access	✓
Processor cache type	Smart Cache	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor socket	BGA 1288	Intel Trusted Execution Technology	✓
Processor lithography	32 nm	Intel Enhanced Halt State	✓
Processor operating modes	64-bit	Intel VT-x with Extended Page Tables (EPT)	✓
Processor series	Intel Core i7-600 Mobile Series	Intel Demand Based Switching	✗
Processor codename	Arrandale		
Bus type	DMI		
FSB Parity	✗		
Stepping	K0		
Thermal Design Power (TDP)	35 W		
Tjunction	105 °C		

Processor		Processor special features	
Maximum number of PCI Express lanes	16	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
PCI Express slots version	2.0	Intel 64	✓
PCI Express configurations	1x16	Execute Disable Bit	✓
Number of Processing Die Transistors	382 M	Idle States	✓
Processing Die size	81 mm²	Thermal Monitoring Technologies	✓
Number of processors supported	1	Processor package size	rPGA 37.5x 37.5, BGA 34x28
CPU multiplier (bus/core ratio)	21	Supported instruction sets	SSE4.1/4.2
ECC supported by processor	✗	Processor code	SLBTN
Memory		Physical Address Extension (PAE)	36 bit
Internal memory *	8 GB	CPU configuration (max)	1
Internal memory type	DDR3-SDRAM	Embedded options available	✗
Memory clock speed	1333 MHz	Graphics & IMC lithography	45 nm
Memory layout (slots x size)	2 x 4 GB	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Memory slots	2x SO-DIMM	Intel Virtualization Technology (VT-x)	✓
Maximum internal memory *	16 GB	Intel Dual Display Capable Technology	✓
Storage		Intel FDI Technology	✓
Total storage capacity *	500 GB	Intel Rapid Storage Technology	✗
Storage media *	HDD	Intel Fast Memory Access	✓
Total HDDs capacity	500 GB	Processor ARK ID	49666
Number of HDDs installed	1	Conflict-Free processor	✗
HDD capacity	500 GB	Battery	
HDD interface	SATA II	Battery technology	Lithium-Ion (Li-Ion)
HDD speed	7200 RPM	Number of battery cells	6
HDD size	2.5"	Battery capacity *	68 Wh
Optical drive type *	Blu-Ray DVD Combo	Battery life (max)	5,5 h
Card reader integrated	✓	Power	
Compatible memory cards	MMC, SD	AC adapter power	90 W
Graphics		AC adapter frequency	50 - 60 Hz
Discrete graphics card model *	NVIDIA® Quadro® FX 880M	AC adapter input voltage	100 - 240 V
On-board graphics card *	✓	Power auto-sensing	✓
Discrete graphics card *	✓	DC-in jack	✓
On-board graphics card family	Intel® HD Graphics	Security	
On-board graphics card model *	Intel® HD Graphics	Cable lock slot	✗
On-board graphics card base frequency	500 MHz	Password protection type	✓
On-board graphics card dynamic frequency (max)	766 MHz	Operational conditions	
Number of discrete graphics cards	1	Operating temperature (T-T)	5 - 35 °C
Audio		Storage temperature (T-T)	-15 - 60 °C
Audio system	HD	Operating relative humidity (H-H)	20 - 85%
Built-in speaker(s)	✓	Storage relative humidity (H-H)	10 - 90%
Number of built-in speakers	2	Certificates	
Built-in microphone	✓	Wi-Fi certified	✓
Camera		Compliance certificates	RoHS
Front camera resolution (numeric)	2 MP	Sustainability	
Optical drive		Sustainability certificates	EPEAT Gold, ENERGY STAR
Optical drive interface	SATA	Weight & dimensions	
Network		Width	373,5 mm
Wi-Fi	✓	Depth	251,5 mm
Top Wi-Fi standard *	Wi-Fi 4 (802.11n)	Height (front)	3,24 cm
Wi-Fi standards	802.11b, 802.11g, Wi-Fi 4 (802.11n)	Width (imperial)	37,3 cm (14.7")
Ethernet LAN	✓	Depth (imperial)	25,1 cm (9.9")
Ethernet LAN data rates	10,100,1000 Mbit/s	Height (front) (imperial)	3,25 cm (1.28")
Bluetooth	✓		
Bluetooth version	2.1+EDR		

Network		Weight & dimensions	
Cabling technology	10/100/1000Base-T(X)	Weight *	2,89 kg
Ports & interfaces		Packaging content	
USB 2.0 ports quantity *	2	AC adapter included *	✓
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	Cables included	AC
eSATA ports quantity	1	Manual	✓
Ethernet LAN (RJ-45) ports	1	Quick start guide	✓
DisplayPorts quantity	1	Warranty card	✓
DVI port	✗	Other features	
VGA (D-Sub) ports quantity	1	LightScribe	✓
Firewire (IEEE 1394) ports	1	Infrared data port	✗
Headphone outputs	1	Graphics card family	Intel, NVIDIA
S/PDIF out port	✗	3D	✗
Microphone in	✓	Maximum internal memory (64-bit)	16 GB
Docking connector	✓	Internal modem	✓
ExpressCard slot	✓	Modem speed	56 Kbit/s
SmartCard slot	✓	Modem type	v.92
Modem (RJ-11) ports	1	Intel segment tagging	Enterprise
Headphone connectivity	3.5 mm		
Microphone connectivity	3.5 mm		
Performance			
Motherboard chipset	Intel® QM57 Express		



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