HP

HP EliteBook 8770w Intel® Core™ i7 i7-3740QM 43,9 cm (17.3") Full HD 8 GB DDR3-SDRAM 256 GB SSD NVIDIA® Quadro® K3000M Windows 7 Professional Charcoal, Grey

Brand : HP   **Product family:** EliteBook   **Product code:** LY582EA#ABH

Product name : 8770w

HP EliteBook 8770w Mobile Workstation
HP EliteBook 8770w. Form factor: Clamshell. Processor type: Intel® Core™ i7, Processor: i7-3740QM, Processor frequency: 2,7 GHz. Display diagonal: 43,9 cm (17.3"), HD type: Full HD, Display resolution: 1920 x 1080 pixels. Internal memory: 8 GB, Internal memory type: DDR3-SDRAM. Total storage capacity: 256 GB, Storage media: SSD, Optical drives: DVD Super Multi DL. On-board graphics card model: Intel® HD Graphics 4000. Operating system software: Windows 7 Professional. Product colour: Charcoal, Grey

Design

Product colour *	Charcoal, Grey
Form factor *	Clamshell
Country of origin	China

Display

Display diagonal *	43,9 cm (17.3")
Display resolution *	1920 x 1080 pixels
Touchscreen *	✗
HD type	Full HD
Colour	16.78 million colours
LED backlight	✔
Native aspect ratio	16:9

Processor

Processor manufacturer *	Intel
Processor type *	Intel® Core™ i7
Processor generation	3rd gen Intel® Core™ i7
Processor *	i7-3740QM
Processor number of cores	4
Processor threads	8
Processor boost frequency	3,7 GHz
Processor frequency *	2,7 GHz
System bus data transfer rate	5 GT/s
Processor cache	6 MB
Processor cache type	Smart Cache
Processor socket	PGA988
Processor lithography	22 nm
Processor operating modes	64-bit
Processor series	Intel Core i7-3700 Mobile Series
Processor codename	Ivy Bridge
Bus type	DMI

Keyboard

Spill-resistant keyboard	✔
Full-size keyboard	✔
Keyboard layout	QWERTY

Software

Operating system architecture	64-bit
Recovery operating system	Windows 8 Pro
Operating system software *	Windows 7 Professional

Processor special features

Intel Wireless Display (WiDi) Technology	✔
Intel My WiFi Technology	✔
Intel Anti-Theft Technology	✔
Intel Identity Protection Technology	✔
Intel Hyper-Threading Technology	✔
Intel Turbo Boost Technology	2.0
Enhanced Intel SpeedStep Technology	✔
Intel Clear Video HD Technology	✔
Intel Clear Video Technology	✗
Intel® InTru™ 3D Technology	✔
Intel® Insider™	✔
Intel® Quick Sync Video Technology	✔
Intel Flex Memory Access	✔
Intel Smart Cache	✔
Intel AES New Instructions	✔
Intel Trusted Execution Technology	✔
Intel Enhanced Halt State	✔

Processor

FSB Parity	✘
Stepping	E1
Thermal Design Power (TDP)	45 W
Tjunction	105 °C
Maximum number of PCI Express lanes	16
PCI Express slots version	3.0
PCI Express configurations	1x16, 2x8, 1x8+2x4
Number of processors supported	1
Maximum number of SMP processors	1
CPU multiplier (bus/core ratio)	27
ECC supported by processor	✘

Memory

Internal memory *	8 GB
Internal memory type	DDR3-SDRAM
Memory speed	1600 MHz
Maximum memory *	32 GB

Storage

Total storage capacity *	256 GB
Storage media *	SSD
Hard drive capacity	0 GB
Total SSDs capacity	256 GB
Number of SSDs installed	1
Solid-state drive capacity	256 GB
Optical drives *	DVD Super Multi DL
Card reader integrated	✔
Compatible memory cards	MMC, SD

Graphics

Discrete graphics card model *	NVIDIA® Quadro® K3000M
Discrete graphics card memory	2 GB
Discrete graphics memory type	GDDR5
On-board graphics card *	✔
Discrete graphics card *	✔
On-board graphics card family	Intel® HD Graphics
On-board graphics card model *	Intel® HD Graphics 4000
On-board graphics card base frequency	650 MHz
On-board graphics card dynamic frequency (max)	1300 MHz
On-board graphics card ID	0x166
Number of discrete graphics cards	1

Audio

Audio system	SRS Premium Sound PRO
Built-in speaker(s)	✔
Number of built-in speakers	2
Built-in microphone	✔

Optical drive

Optical drive interface	SATA

Network

Wi-Fi	✔
Wi-Fi standards	802.11b, 802.11g, Wi-Fi 4 (802.11n)
Ethernet LAN connection	✔
Ethernet LAN data rates	10,100,1000 Mbit/s
Bluetooth	✘
Cabling technology	10/100/1000Base-T(X)

Processor special features

Intel VT-x with Extended Page Tables (EPT)	✔
Intel Demand Based Switching	✘
Intel® Secure Key	✔
Intel Clear Video Technology for MID	✘
Intel 64	✔
Execute Disable Bit	✔
Idle States	✔
Thermal Monitoring Technologies	✔
Processor package size	37.5 x 37.5 (rPGA988B); 31.0 x 24.0 (BGA1224)
Supported instruction sets	AVX
Processor code	SR0UV
CPU configuration (max)	1
Embedded options available	✘
Graphics & IMC lithography	22 nm
Intel Virtualization Technology for Directed I/O (VT-d)	✔
Intel Identity Protection Technology version	1,00
Intel Secure Key Technology version	1,00
Intel Virtualization Technology (VT-x)	✔
Intel Dual Display Capable Technology	✔
Intel FDI Technology	✔
Intel Rapid Storage Technology	✘
Intel Fast Memory Access	✔
Processor ARK ID	70847
Conflict-Free processor	✔
Integrated 4G WiMAX	✔

Battery

Battery technology	Lithium-Ion (Li-Ion)
Number of battery cells	8

Power

AC adapter power	200 W
AC adapter frequency	50 - 60 Hz
AC adapter input voltage	100 - 240 V
AC adapter output voltage	19 V
Power auto-sensing	✔
DC-in jack	✔

Security

Cable lock slot	✔
Password protection type	✔

Operational conditions

Operating temperature (T-T)	5 - 35 °C
Storage temperature (T-T)	-24 - 45 °C
Operating relative humidity (H-H)	10 - 85%
Storage humidity	10 - 90%

Certificates

Compliance certificates	RoHS

Sustainability

Sustainability certificates	EPEAT Silver, ENERGY STAR

Weight & dimensions

Width	417 mm
Depth	273 mm

Ports & interfaces

USB 2.0 ports quantity *	2
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
eSATA/USB 2.0 ports quantity	1
Ethernet LAN (RJ-45) ports	1
DVI port	✘
VGA (D-Sub) ports quantity	1
Firewire (IEEE 1394) ports	1
Headphone outputs	1
Microphone in	✔
ExpressCard slot	✔
CardBus PCMCIA slot type	✘
SmartCard slot	✔
Headphone connectivity	3.5 mm
Microphone connectivity	3.5 mm

Performance

Chipset	Intel® QM77 Express

Keyboard

Pointing device	Touchpad
Numeric keypad *	✔

Weight & dimensions

Height	37 mm
Weight *	3,47 kg

Packaging content

AC adapter included *	✔
Cables included	AC
Manual	✔
Quick start guide	✔
Warranty card	✔

Other features

LightScribe	✘
Infrared data port	✘
Graphics card family	Intel, NVIDIA
Maximum internal memory (64-bit)	32 GB
Dimensions (WxDxH)	37,4 x 416,5 x 272,7 mm
Product dimensions (W x D x H)	3,73 cm (1.47")
Maximum hard drive	750 GB
Minimum hard drive	320 GB
Intel segment tagging	Enterprise

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