HP ZBook Studio G3 Mobile Workstation

Marke : HP   **Produktfamilie:** ZBook   **Artikel-Code:** T7W04EA#ABH

Produktname : ZBook Studio
G3 Mobile Workstation

- Windows 7 Professional 64
- 6th gen Intel® Core™ i7 i7-6820HQ (8M Cache, 2.7 GHz)
- 39.6 cm (15.6") 4K Ultra HD IPS (3840 x 2160), NVIDIA Quadro M1000M (2GB GDDR5)
- 16GB (2133 MHz) DDR4-SDRAM (2 x 8 GB) & 512GB SSD
6th gen Intel® Core™ i7-6820HQ (8M Cache, 2.7 GHz), 16GB DDR4-SDRAM, 512GB SSD, 39.6 cm (15.6")
4K Ultra HD 3840 x 2160, Intel® HD Graphics 530, NVIDIA Quadro M1000M 2GB GDDR5, LAN, WLAN,
WebCam, Windows 7 Professional 64-bit
HP ZBook Studio G3 Mobile Workstation. Produkttyp: Ultrabook, Formfaktor: Klappgehäuse.
Prozessorfamilie: Intel® Core™ i7, Prozessor: i7-6820HQ, Prozessor-Taktfrequenz: 2,7 GHz.
Anzeigegrösse (Diagonal): 39,6 cm (15.6"), HD type: 4K Ultra HD, Auflösung: 3840 x 2160 Pixel.
Arbeitsspeicher (RAM): 16 GB, Interner Speichertyp: DDR4-SDRAM. Gesamtspeicherkapazität: 512 GB,
Speichermedien: SSD. On-board Grafik Modell: Intel® HD Graphics 530. Vorinstalliertes Betriebssystem:
Windows 7 Professional. Produktfarbe: Schwarz

Design

Product type *	Ultrabook
Product colour *	Black
Form factor *	Clamshell
Country of origin	China

Display

Display diagonal *	39.6 cm (15.6")
Display resolution *	3840 x 2160 pixels
Touchscreen *	✘
HD type	4K Ultra HD
Panel type	IPS
LED backlight	✔
Native aspect ratio	16:9

Processor

Processor manufacturer *	Intel
Processor family *	Intel® Core™ i7
Processor generation	6th gen Intel® Core™ i7
Processor model *	i7-6820HQ
Processor cores	4
Processor threads	8
Processor boost frequency	3.6 GHz
Processor frequency *	2.7 GHz
System bus rate	8 GT/s
Processor cache	8 MB
Processor cache type	Smart Cache
Processor socket	BGA 1440
Processor lithography	14 nm
Processor operating modes	64-bit
Processor series	Intel Core i7-6800 Mobile Series
Processor codename	Skylake
Bus type	DMI3
FSB Parity	✘
Stepping	R0
Thermal Design Power (TDP)	45 W
Configurable TDP-down	35 W

Ports & interfaces

SmartCard slot	✘

Performance

Motherboard chipset	Intel CM236

Keyboard

Pointing device	Touchpad
Numeric keypad *	✘
Keyboard backlit	✔
Spill-resistant keyboard	✔
Keyboard layout	QWERTY

Software

Operating system architecture	64-bit
Recovery operating system	Windows 10 Pro
Operating system installed *	Windows 7 Professional

Processor special features

Intel® Wireless Display (Intel® WiDi)	✔
Intel® My WiFi Technology (Intel® MWT)	✔
Intel® Anti-Theft Technology (Intel® AT)	✘
Intel® Smart Response Technology	✔
Intel® Identity Protection Technology (Intel® IPT)	✔
Intel® Hyper Threading Technology (Intel® HT Technology)	✔
Intel® Turbo Boost Technology	2.0
Intel® Small Business Advantage (Intel® SBA)	✔
Enhanced Intel SpeedStep Technology	✔
Intel® Clear Video HD Technology (Intel® CVT HD)	✔
Intel Clear Video Technology	✔
Intel® InTru™ 3D Technology	✔

Processor

Tjunction	100 °C
Maximum number of PCI Express lanes	16
PCI Express slots version	3.0
PCI Express configurations	1x16, 2x8, 1x8+2x4
ECC supported by processor	✘

Memory

Internal memory *	16 GB
Internal memory type	DDR4-SDRAM
Memory clock speed	2133 MHz
Memory layout (slots x size)	2 x 8 GB
Memory slots	2x SO-DIMM
Maximum internal memory *	32 GB

Storage

Total storage capacity *	512 GB
Storage media *	SSD
Total SSDs capacity	512 GB
Number of SSDs installed	1
SSD capacity	512 GB
SSD interface	PCI Express
Optical drive type *	✘
Card reader integrated	✔
Compatible memory cards	SD

Graphics

Discrete graphics card model *	NVIDIA® Quadro® M1000M
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 530
On-board graphics card base frequency	350 MHz
On-board graphics card dynamic frequency (max)	1050 MHz
Maximum on-board graphics card memory	1.7 GB
On-board graphics card DirectX version	12.0
On-board graphics card OpenGL version	4.4
On-board graphics card ID	0x191B

Audio

Audio system	Bang & Olufsen
Number of built-in speakers	2
Speakers manufacturer	Bang & Olufsen
Built-in microphone	✔

Camera

Front camera	✔

Network

Wi-Fi	✔
Top Wi-Fi standard *	Wi-Fi 5 (802.11ac)
Wi-Fi standards	Wi-Fi 5 (802.11ac)
Ethernet LAN	✔
Ethernet LAN data rates	10,100,1000 Mbit/s
Bluetooth	✔
Bluetooth version	4.2

Processor special features

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	✔
Intel VT-x with Extended Page Tables (EPT)	✔
Intel Demand Based Switching	✘
Intel® Secure Key	✔
Intel TSX-NI	✔
Intel Stable Image Platform Program (SIPP)	✔
Intel® OS Guard	✔
Intel Software Guard Extensions (Intel SGX)	✔
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	42 x 28 mm
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0
Processor code	SR2FU
CPU configuration (max)	1
Embedded options available	✘
Graphics & IMC lithography	14 nm
Intel Virtualization Technology for Directed I/O (VT-d)	✔
Intel Identity Protection Technology version	1.00
Intel Smart Response Technology version	1.00
Intel Stable Image Platform Program (SIPP) version	1.00
Intel Secure Key Technology version	1.00
Intel Small Business Advantage (SBA) version	1.00
Intel TSX-NI 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	88970
Conflict-Free processor	✔

Battery

Battery technology	Lithium-Ion (Li-Ion)
Number of battery cells	4
Battery capacity *	64 Wh

Power

AC adapter power	150 W
DC-in jack	✔

Ports & interfaces

USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	3
Ethernet LAN (RJ-45) ports	1
HDMI ports quantity *	1
HDMI version	1.4
DVI port	✘
Thunderbolt 3 ports quantity	2
S/PDIF out port	✘
Microphone in	✘
Combo headphone/mic port	✔
Docking connector	✘
ExpressCard slot	✘
CardBus PCMCIA slot type	✘

Security

Cable lock slot	✔

Sustainability

Sustainability certificates	ENERGY STAR

Weight & dimensions

Width	375 mm
Depth	255 mm
Height	18 mm
Weight *	2 kg