



## 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,  
Speichermidien: SSD. On-board Grafik Modell: Intel® HD Graphics 530. Vorinstalliertes Betriebssystem:  
Windows 7 Professional. Produktfarbe: Schwarz



Design		Ports & interfaces	
Product type *	Ultrabook	SmartCard slot	✗
Product colour *	Black	Performance	
Form factor *	Clamshell	Motherboard chipset	Intel CM236
Country of origin	China	Keyboard	
Display		Pointing device	Touchpad
Display diagonal *	39.6 cm (15.6")	Numeric keypad *	✗
Display resolution *	3840 x 2160 pixels	Keyboard backlit	✓
Touchscreen *	✗	Spill-resistant keyboard	✓
HD type	4K Ultra HD	Keyboard layout	QWERTY
Panel type	IPS	Software	
LED backlight	✓	Operating system architecture	64-bit
Native aspect ratio	16:9	Recovery operating system	Windows 10 Pro
Processor		Operating system installed *	Windows 7 Professional
Processor manufacturer *	Intel	Processor special features	
Processor family *	Intel® Core™ i7	Intel® Wireless Display (Intel® WiDi)	✓
Processor generation	6th gen Intel® Core™ i7	Intel® My WiFi Technology (Intel® MWT)	✓
Processor model *	i7-6820HQ	Intel® Anti-Theft Technology (Intel® AT)	✗
Processor cores	4	Intel® Smart Response Technology	✓
Processor threads	8	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor boost frequency	3.6 GHz	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor frequency *	2.7 GHz	Intel® Turbo Boost Technology	2.0
System bus rate	8 GT/s	Intel® Small Business Advantage (Intel® SBA)	✓
Processor cache	8 MB	Enhanced Intel SpeedStep Technology	✓
Processor cache type	Smart Cache	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor socket	BGA 1440	Intel Clear Video Technology	✓
Processor lithography	14 nm	Intel® InTru™ 3D Technology	✓
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		

Processor		Processor special features	
Tjunction	100 °C	Intel® Insider™	✓
Maximum number of PCI Express lanes	16	Intel® Quick Sync Video Technology	✓
PCI Express slots version	3.0	Intel Flex Memory Access	✓
PCI Express configurations	1x16, 2x8, 1x8+2x4	Intel® AES New Instructions (Intel® AES-NI)	✓
ECC supported by processor	✗	Intel Trusted Execution Technology	✓
Memory		Intel Enhanced Halt State	✓
Internal memory *	16 GB	Intel VT-x with Extended Page Tables (EPT)	✓
Internal memory type	DDR4-SDRAM	Intel Demand Based Switching	✗
Memory clock speed	2133 MHz	Intel® Secure Key	✓
Memory layout (slots x size)	2 x 8 GB	Intel TSX-NI	✓
Memory slots	2x SO-DIMM	Intel Stable Image Platform Program (SIPP)	✓
Maximum internal memory *	32 GB	Intel® OS Guard	✓
Storage		Intel Software Guard Extensions (Intel SGX)	✓
Total storage capacity *	512 GB	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Storage media *	SSD	Intel 64	✓
Total SSDs capacity	512 GB	Execute Disable Bit	✓
Number of SSDs installed	1	Idle States	✓
SSD capacity	512 GB	Thermal Monitoring Technologies	✓
SSD interface	PCI Express	Processor package size	42 x 28 mm
Optical drive type *	✗	Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0
Card reader integrated	✓	Processor code	SR2FU
Compatible memory cards	SD	CPU configuration (max)	1
Graphics		Embedded options available	✗
Discrete graphics card model *	NVIDIA® Quadro® M1000M	Graphics & IMC lithography	14 nm
Discrete graphics card memory	2 GB	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Discrete graphics memory type	GDDR5	Intel Identity Protection Technology version	1.00
On-board graphics card *	✓	Intel Smart Response Technology version	1.00
Discrete graphics card *	✓	Intel Stable Image Platform Program (SIPP) version	1.00
On-board graphics card family	Intel® HD Graphics	Intel Secure Key Technology version	1.00
On-board graphics card model *	Intel® HD Graphics 530	Intel Small Business Advantage (SBA) version	1.00
On-board graphics card base frequency	350 MHz	Intel TSX-NI version	1.00
On-board graphics card dynamic frequency (max)	1050 MHz	Intel Virtualization Technology (VT-x)	✓
Maximum on-board graphics card memory	1.7 GB	Intel Dual Display Capable Technology	✗
On-board graphics card DirectX version	12.0	Intel FDI Technology	✗
On-board graphics card OpenGL version	4.4	Intel Rapid Storage Technology	✗
On-board graphics card ID	0x191B	Intel Fast Memory Access	✗
Audio		Processor ARK ID	88970
Audio system	Bang & Olufsen	Conflict-Free processor	✓
Number of built-in speakers	2	Battery	
Speakers manufacturer	Bang & Olufsen	Battery technology	Lithium-Ion (Li-Ion)
Built-in microphone	✓	Number of battery cells	4
Camera		Battery capacity *	64 Wh
Front camera	✓	Power	
Network		AC adapter power	150 W
Wi-Fi	✓	DC-in jack	✓
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		

Ports & interfaces		Security	
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	3	Cable lock slot	✓
Ethernet LAN (RJ-45) ports	1	Sustainability	
HDMI ports quantity *	1	Sustainability certificates	ENERGY STAR
HDMI version	1.4	Weight & dimensions	
DVI port	✗	Width	375 mm
Thunderbolt 3 ports quantity	2	Depth	255 mm
S/DPDIF out port	✗	Height	18 mm
Microphone in	✗	Weight *	2 kg
Combo headphone/mic port	✓		
Docking connector	✗		
ExpressCard slot	✗		
CardBus PCMCIA slot type	✗		

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