



HP ZBook 15 G3 i7-6820HQ Mobile workstation 39.6 cm (15.6") Intel® Core™ i7 16 GB DDR4-SDRAM 512 GB SSD NVIDIA® Quadro® M2000M Windows 7 Professional Black

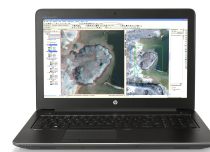
Brand : HP

Product family: ZBook

Product code: T7V59EA-OPG

Product name : 15 G3

Intel Core i7-6820HQ (2.7GHz, 8MB), 15.6" UHD DreamColor UWVA IPS anti-glare + PSR LED (3840 X 2160), 16GB (2 x 8GB) DDR4 SDRAM, 512GB HP Z Turbo Drive PCIe SSD, NVIDIA Quadro M2000M, 802.11ac, Bluetooth 4.2, webcam, Windows 7 Professional 64 / Windows 10 Pro 64
HP ZBook 15 G3. Product type: Mobile workstation, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor: i7-6820HQ, Processor frequency: 2.7 GHz. Display diagonal: 39.6 cm (15.6"), Display resolution: 3840 x 2160 pixels. Internal memory: 16 GB, Internal memory type: DDR4-SDRAM. Total storage capacity: 512 GB, Storage media: SSD. On-board graphics card model: Intel® HD Graphics 530, Discrete graphics card model: NVIDIA® Quadro® M2000M. Operating system installed: Windows 7 Professional. Product colour: Black



Design		Ports & interfaces	
Product type *	Mobile workstation	VGA (D-Sub) ports quantity	1
Product colour *	Black	Thunderbolt 3 ports quantity	2
Form factor *	Clamshell	Combo headphone/mic port	✓
Country of origin	China	Charging port type	DC-in jack
Display		Keyboard	
Display diagonal *	39.6 cm (15.6")	Pointing device	Touchpad
Display resolution *	3840 x 2160 pixels	Numeric keypad *	✓
Touch screen *	✗	Spill-resistant keyboard	✓
LED backlight	✓	Software	
Native aspect ratio	16:9	Operating system architecture	64-bit
Processor		Recovery operating system	Windows 10 Pro
Processor manufacturer *	Intel	Operating system installed *	Windows 7 Professional
Processor generation	6th gen Intel® Core™ i7	Processor special features	
Processor *	i7-6820HQ	Intel Wireless Display (WiDi) Technology	✓
Processor frequency *	2.7 GHz	Intel My WiFi Technology	✓
Processor boost frequency	3.6 GHz	Intel® Smart Response Technology	✓
Processor family *	Intel® Core™ i7	Intel Identity Protection Technology	✓
Processor number of cores	4	Intel Hyper-Threading Technology	✓
Processor threads	8	Intel Turbo Boost Technology	2.0
System bus data transfer 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	✓
Processor socket	BGA 1440	Intel Clear Video Technology	✓
Processor lithography	14 nm	Intel® InTru™ 3D Technology	✓
Processor operating modes	64-bit	Intel® Insider™	✓
Processor series	Intel Core i7-6800 Mobile Series	Intel® Quick Sync Video Technology	✓
Processor codename	Skylake	Intel Flex Memory Access	✓
Bus type	DMI3	Intel AES New Instructions	✓
Stepping	R0	Intel Trusted Execution Technology	✓
Motherboard chipset	Intel CM236	Intel Enhanced Halt State	✓
Thermal Design Power (TDP)	45 W	Intel VT-x with Extended Page Tables (EPT)	✓
Configurable TDP-down	35 W		
Tjunction	100 °C		
Maximum number of PCI Express lanes	16		

Processor		Processor special features	
PCI Express slots version	3.0	Intel® Secure Key	✓
PCI Express configurations	1x16, 2x8, 1x8+2x4	Intel TSX-NI	✓
ECC supported by processor	✗	Intel Stable Image Platform Program (SIPP)	✓
Memory		Intel® OS Guard	✓
Internal memory *	16 GB	Intel Software Guard Extensions (Intel SGX)	✓
Internal memory type	DDR4-SDRAM	Intel Clear Video Technology for MID	✓
Memory clock speed	2133 MHz	Intel 64	✓
Memory layout (slots x size)	2 x 8 GB	Execute Disable Bit	✓
Memory slots	4x SO-DIMM	Idle States	✓
Maximum internal memory *	64 GB	Thermal Monitoring Technologies	✓
Storage		Processor package size	42 x 28 mm
Total storage capacity *	512 GB	Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0
Storage media *	SSD	Processor code	SR2FU
Total SSDs capacity	512 GB	CPU configuration (max)	1
Number of SSDs installed	1	Embedded options available	✗
Solid-state drive capacity	512 GB	Graphics & IMC lithography	14 nm
Solid-state drive interfaces	PCI Express	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Optical drive type *	✗	Intel Identity Protection Technology version	1.00
Card reader integrated	✓	Intel Smart Response Technology version	1.00
Compatible memory cards	SD, SDHC, SDXC	Intel Stable Image Platform Program (SIPP) version	1.00
Graphics		Intel Secure Key Technology version	1.00
Discrete graphics card model *	NVIDIA® Quadro® M2000M	Intel Small Business Advantage (SBA) version	1.00
On-board graphics card *	✓	Intel TSX-NI version	1.00
Discrete graphics card *	✓	Intel Virtualization Technology (VT-x)	✓
On-board graphics card family	Intel® HD Graphics	Processor ARK ID	88970
On-board graphics card model *	Intel® HD Graphics 530	Conflict-Free processor	✓
On-board graphics card base frequency	350 MHz	Battery	
On-board graphics card dynamic frequency (max)	1050 MHz	Battery technology	Lithium Polymer (LiPo)
Maximum on-board graphics card memory	1.7 GB	Number of battery cells	9
On-board graphics card DirectX version	12.0	Battery capacity *	90 Wh
On-board graphics card OpenGL version	4.4	Energy Management	
On-board graphics card ID	0x191B	AC adapter power	150 W
Discrete graphics card memory	4 GB	Security	
Discrete graphics memory type	GDDR5	Cable lock slot	✓
Audio		Trusted Platform Module (TPM)	✓
Number of built-in speakers	2	Password protection	✓
Speakers manufacturer	Bang & Olufsen	Password protection type	Power on
Built-in microphone	✓	Sustainability	
Camera		Sustainability certificates	ENERGY STAR
Front camera	✓	Weight & Dimensions	
Network		Width	386 mm
Wi-Fi	✓	Depth	264 mm
Wi-Fi standards	Wi-Fi 5 (802.11ac)	Height	26 mm
Ethernet LAN connection	✓	Weight *	2.59 kg
Ethernet LAN data rates	10,100,1000 Mbit/s		
Bluetooth	✓		
Bluetooth version	4.2		
Ports & interfaces			
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	3		
Ethernet LAN (RJ-45) ports quantity	1		
HDMI ports quantity *	1		

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