



## HP ZBook 15 G3 Intel® Core™ i7 i7-6820HQ Мобилна работна станция 39,6 см (15.6") 8 GB DDR4-SDRAM 256 GB SSD Windows 10 Черен

Марка : HP

Семейство продукти: ZBook

Продуктов код: 1CS90UP

Модел : 15 G3

HP ZBook 15 G3. Тип на продукта: Мобилна работна станция, Типоразмер: Мида. Семейство на процесора: Intel® Core™ i7, Модел процесор: i7-6820HQ, Честота на копроцесора: 2,7 GHz. Диагонал на дисплея: 39,6 см (15.6"). Оперативна памет: 8 GB, Тип вътрешна памет: DDR4-SDRAM. Пълен обем на паметта: 256 GB, Носител за съхранение: SSD. Модел на вградения графичен адаптер: Intel® HD Graphics 530. Инсталирана операционна система: Windows 10. Цвят на продукта: Черен. Тегло: 2,59 кг



Design		Processor special features	
Product type *	Mobile workstation	Intel® Identity Protection Technology (Intel® IPT)	✓
Product colour *	Black	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Form factor *	Clamshell	Intel® Turbo Boost Technology	2.0
Country of origin	China	Intel® Small Business Advantage (Intel® SBA)	✓
Display		Enhanced Intel SpeedStep Technology	✓
Display diagonal *	39.6 cm (15.6")	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
LED backlight	✓	Intel Clear Video Technology	✓
Native aspect ratio	16:9	Intel® InTru™ 3D Technology	✓
Processor		Intel® Insider™	✓
Processor manufacturer *	Intel	Intel® Quick Sync Video Technology	✓
Processor family *	Intel® Core™ i7	Intel Flex Memory Access	✓
Processor generation	6th gen Intel® Core™ i7	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor model *	i7-6820HQ	Intel Trusted Execution Technology	✓
Processor cores	4	Intel Enhanced Halt State	✓
Processor threads	8	Intel VT-x with Extended Page Tables (EPT)	✓
Processor boost frequency	3.6 GHz	Intel Demand Based Switching	✗
Processor frequency *	2.7 GHz	Intel® Secure Key	✓
System bus rate	8 GT/s	Intel TSX-NI	✓
Processor cache	8 MB	Intel Stable Image Platform Program (SIPP)	✓
Processor cache type	Smart Cache	Intel® OS Guard	✓
Processor socket	BGA 1440	Intel Software Guard Extensions (Intel SGX)	✓
Processor lithography	14 nm	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Processor operating modes	64-bit	Intel 64	✓
Processor series	Intel Core i7-6800 Mobile Series	Execute Disable Bit	✓
Processor codename	Skylake	Idle States	✓
Bus type	DMI3		
Stepping	R0		
Thermal Design Power (TDP)	45 W		
Configurable TDP-down	35 W		
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		Processor special features	
Internal memory *	8 GB	Thermal Monitoring Technologies	✓
Internal memory type	DDR4-SDRAM	Processor package size	42 x 28 mm
Memory clock speed	2133 MHz	Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0
Memory form factor	SO-DIMM	Processor code	SR2FU
Memory slots	4x SO-DIMM	CPU configuration (max)	1
Maximum internal memory *	64 GB	Embedded options available	✗
Storage		Graphics & IMC lithography	14 nm
Total storage capacity *	256 GB	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Storage media *	SSD	True Key™	✗
Total SSDs capacity	256 GB	Intel Smart Idle Technology	✗
Number of SSDs installed	1	Intel Instruction Replay Technology	✗
SSD capacity	256 GB	Intel Secure Boot	✗
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
On-board graphics card *	✓	Intel Small Business Advantage (SBA) version	1.00
On-board graphics card family	Intel® HD Graphics	Intel TSX-NI version	1.00
On-board graphics card model *	Intel® HD Graphics 530	Intel Virtualization Technology (VT-x)	✓
On-board graphics card base frequency	350 MHz	Intel Advanced Vector Extensions	✗
On-board graphics card dynamic frequency (max)	1050 MHz	Intel Dual Display Capable Technology	✗
Maximum on-board graphics card memory	1.7 GB	Intel HD Boost	✗
On-board graphics card DirectX version	12.0	Intel FDI Technology	✗
On-board graphics card OpenGL version	4.4	Intel I/O Acceleration Technology	✗
On-board graphics card ID	0x191B	Intel Power Management Technology	✗
Audio		Intel QuickAssist Technology	✗
Audio system	B&O PLAY	Intel Rapid Storage Technology	✗
Number of built-in speakers	2	Intel® Unite™	✗
Speakers manufacturer	Bang & Olufsen	Intel Unite installed	✗
Built-in microphone	✓	Intel Fast Memory Access	✗
Camera		Processor ARK ID	88970
Front camera	✓	Conflict-Free processor	✓
Network		Battery	
Wi-Fi	✓	Battery technology	Lithium Polymer (LiPo)
Wi-Fi standards	802.11a, Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n)	Number of battery cells	9
Ethernet LAN	✓	Battery capacity *	90 Wh
Ethernet LAN data rates	10,100,1000 Mbit/s	Power	
Bluetooth	✓	AC adapter frequency	50 - 60 Hz
Ports & interfaces		AC adapter input voltage	100 - 240 V
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	3	AC adapter output voltage	19 V
Ethernet LAN (RJ-45) ports	1	Power auto-sensing	✓
HDMI ports quantity *	1	DC-in jack	✓
HDMI version	1.4	Security	
DVI port	✗	Trusted Platform Module (TPM)	✓
VGA (D-Sub) ports quantity	1	Password protection	✓
Thunderbolt 3 ports quantity	2	Certificates	
Headphone outputs	1	Wi-Fi certified	✓
Combo headphone/mic port	✓	Compliance certificates	RoHS
Docking connector	✗		
SmartCard slot	✓		

Performance		Sustainability	
Motherboard chipset	Intel CM236	Sustainability certificates	EPEAT Silver, ENERGY STAR
Keyboard		Weight & dimensions	
Pointing device	Touchpad	Width	386 mm
Numeric keypad *	✓	Depth	264 mm
Keyboard backlit	✓	Height	26 mm
Spill-resistant keyboard	✓	Weight *	2.59 kg
Full-size keyboard	✓	Packaging content	
Windows keys	✓	AC adapter included *	✓
Software		Manual	✓
Operating system installed *	Windows 10	Quick start guide	✓
Processor special features		Warranty card	✓
Intel® Wireless Display (Intel® WiDi)	✓	Power cord included	✓
Intel® My WiFi Technology (Intel® MWT)	✓	Other features	
Intel Smart Connect Technology	✗	Maximum internal memory (64-bit)	64 GB
Intel® Anti-Theft Technology (Intel® AT)	✗		
Intel® Rapid Start Technology	✗		
Intel® Smart Response Technology	✓		

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