HP

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

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

Display

Display diagonal *	39.6 cm (15.6")
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
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	✘

Processor special features

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	✔
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	✔

Memory

Internal memory *	8 GB
Internal memory type	DDR4-SDRAM
Memory clock speed	2133 MHz
Memory form factor	SO-DIMM
Memory slots	4x SO-DIMM
Maximum internal memory *	64 GB

Storage

Total storage capacity *	256 GB
Storage media *	SSD
Total SSDs capacity	256 GB
Number of SSDs installed	1
SSD capacity	256 GB
Optical drive type *	✗
Card reader integrated	✔
Compatible memory cards	SD, SDHC, SDXC

Graphics

On-board 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	B&O PLAY
Number of built-in speakers	2
Speakers manufacturer	Bang & Olufsen
Built-in microphone	✔

Camera

Front camera	✔

Network

Wi-Fi	✔
Wi-Fi standards	802.11a, Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n)
Ethernet LAN	✔
Ethernet LAN data rates	10,100,1000 Mbit/s
Bluetooth	✔

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	✗
VGA (D-Sub) ports quantity	1
Thunderbolt 3 ports quantity	2
Headphone outputs	1
Combo headphone/mic port	✔
Docking connector	✗
SmartCard slot	✔

Processor special features

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)	✔
True Key™	✗
Intel Smart Idle Technology	✗
Intel Instruction Replay Technology	✗
Intel Secure Boot	✗
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 Advanced Vector Extensions	✗
Intel Dual Display Capable Technology	✗
Intel HD Boost	✗
Intel FDI Technology	✗
Intel I/O Acceleration Technology	✗
Intel Power Management Technology	✗
Intel QuickAssist Technology	✗
Intel Rapid Storage Technology	✗
Intel® Unite™	✗
Intel Unite installed	✗
Intel Fast Memory Access	✗
Processor ARK ID	88970
Conflict-Free processor	✔

Battery

Battery technology	Lithium Polymer (LiPo)
Number of battery cells	9
Battery capacity *	90 Wh

Power

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

Trusted Platform Module (TPM)	✔
Password protection	✔

Certificates

Wi-Fi certified	✔
Compliance certificates	RoHS

Performance

Motherboard chipset	Intel CM236

Keyboard

Pointing device	Touchpad
Numeric keypad *	✔
Keyboard backlit	✔
Spill-resistant keyboard	✔
Full-size keyboard	✔
Windows keys	✔

Software

Operating system installed *	Windows 10

Processor special features

Intel® Wireless Display (Intel® WiDi)	✔
Intel® My WiFi Technology (Intel® MWT)	✔
Intel Smart Connect Technology	✘
Intel® Anti-Theft Technology (Intel® AT)	✘
Intel® Rapid Start Technology	✘
Intel® Smart Response Technology	✔

Sustainability

Sustainability certificates	EPEAT Silver, ENERGY STAR

Weight & dimensions

Width	386 mm
Depth	264 mm
Height	26 mm
Weight *	2.59 kg

Packaging content

AC adapter included *	✔
Manual	✔
Quick start guide	✔
Warranty card	✔
Power cord included	✔

Other features

Maximum internal memory (64-bit)	64 GB