



## HP ZBook 15u G3 Intel® Core™ i5 i5-6200U Mobile workstation 39.6 cm (15.6") Full HD 8 GB DDR4-SDRAM 256 GB SSD AMD FirePro W4190M FreeDOS Black

Brand : HP

Product family: ZBook

Product code: T7V79ES

Product name : 15u G3



Intel Core i5-6200U (2.3GHz, Cache 3MB, 2 Cores), 15.6" Full HD (1920 x 1080), 8GB DDR4-SDRAM 2133MHz (1 x 8), 256GB SSD, Intel HD Graphics 520 + AMD FirePro W4190M (2GB, GDDR5), WLAN 802.11b/g/n/a/ac, Bluetooth 4.0, FreeDOS  
HP ZBook 15u G3. Product type: Mobile workstation, Form factor: Clamshell. Processor family: Intel® Core™ i5, Processor model: i5-6200U, Processor frequency: 2.3 GHz. Display diagonal: 39.6 cm (15.6"), HD type: Full HD, Display resolution: 1920 x 1080 pixels. Internal memory: 8 GB, Internal memory type: DDR4-SDRAM. Total storage capacity: 256 GB, Storage media: SSD. On-board graphics card model: Intel® HD Graphics 520. Operating system installed: FreeDOS. Product colour: Black

Design		Ports & interfaces	
Product type *	Mobile workstation	USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity *	1
Product colour *	Black	Ethernet LAN (RJ-45) ports	1
Form factor *	Clamshell	DisplayPorts quantity	1
Country of origin	China	DVI port	✗
Display		VGA (D-Sub) ports quantity	1
Display diagonal *	39.6 cm (15.6")	Combo headphone/mic port	✓
Display resolution *	1920 x 1080 pixels	Docking connector	✓
Touchscreen *	✗	Keyboard	
HD type	Full HD	Pointing device	Touchpad
LED backlight	✓	Numeric keypad *	✓
Native aspect ratio	16:9	Software	
Display surface	Matt	Operating system installed *	FreeDOS
Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Wireless Display (Intel® WiDi)	✓
Processor family *	Intel® Core™ i5	Intel® My WiFi Technology (Intel® MWT)	✓
Processor generation	6th gen Intel® Core™ i5	Intel® Smart Response Technology	✓
Processor model *	i5-6200U	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor cores	2	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor threads	4	Intel® Turbo Boost Technology	2.0
Processor boost frequency	2.8 GHz	Intel® Small Business Advantage (Intel® SBA)	✓
Processor frequency *	2.3 GHz	Enhanced Intel SpeedStep Technology	✓
System bus rate	4 GT/s	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor cache	3 MB	Intel Clear Video Technology	✓
Processor cache type	Smart Cache	Intel® InTru™ 3D Technology	✓
Processor socket	LGA 1356 (Socket B2)	Intel® Insider™	✓
Processor lithography	14 nm	Intel® Quick Sync Video Technology	✓
Processor operating modes	64-bit		
Processor series	Intel Core i5-6200 series		
Processor codename	Skylake		
Bus type	QPI		
Stepping	D1		
Thermal Design Power (TDP)	15 W		
Configurable TDP-up frequency	2.4 GHz		
Configurable TDP-up	25 W		

Processor		Processor special features	
Configurable TDP-down	7.5 W	Intel Flex Memory Access	✓
Configurable TDP-down frequency	0.8 GHz	Intel® Smart Cache	✓
Tjunction	100 °C	Intel® AES New Instructions (Intel® AES-NI)	✓
Maximum number of PCI Express lanes	12	Intel Trusted Execution Technology	✗
PCI Express slots version	3.0	Intel Enhanced Halt State	✓
PCI Express configurations	1x4, 4x1	Intel VT-x with Extended Page Tables (EPT)	✓
ECC supported by processor	✗	Intel® Secure Key	✓
Memory		Intel TSX-NI	✗
Internal memory *	8 GB	Intel Stable Image Platform Program (SIPP)	✗
Internal memory type	DDR4-SDRAM	Intel® OS Guard	✓
Memory clock speed	2133 MHz	Intel Software Guard Extensions (Intel SGX)	✓
Memory form factor	SO-DIMM	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Memory layout (slots x size)	1 x 8 GB	Intel 64	✓
Memory slots	2x SO-DIMM	Execute Disable Bit	✓
Maximum internal memory *	32 GB	Idle States	✓
Storage		Thermal Monitoring Technologies	✓
Total storage capacity *	256 GB	Processor package size	42 X 24 mm
Storage media *	SSD	Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0
Total SSDs capacity	256 GB	Processor code	SR2EY
Number of SSDs installed	1	CPU configuration (max)	1
SSD capacity	256 GB	Embedded options available	✗
Optical drive type *	✗	Graphics & IMC lithography	14 nm
Card reader integrated	✓	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Compatible memory cards	SD, SDHC, SDXC	Intel Identity Protection Technology version	1.00
Graphics		Intel Smart Response Technology version	1.00
Discrete graphics card model *	AMD FirePro W4190M	Intel Stable Image Platform Program (SIPP) version	0.00
Discrete graphics card memory	2 GB	Intel Secure Key Technology version	1.00
Discrete graphics memory type	GDDR5	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	88193
On-board graphics card model *	Intel® HD Graphics 520	Conflict-Free processor	✓
On-board graphics card base frequency	300 MHz	Battery	
On-board graphics card dynamic frequency (max)	1000 MHz	Battery technology	Lithium-Ion (Li-Ion)
Maximum on-board graphics card memory	1.74 GB	Number of battery cells	3
On-board graphics card DirectX version	12.0	Battery capacity *	46 Wh
On-board graphics card OpenGL version	4.4	Power	
On-board graphics card ID	1916	AC adapter power	65 W
Number of discrete graphics cards installed	1	DC-in jack	✓
Audio		Weight & dimensions	
Speakers manufacturer	Bang & Olufsen	Width	383.3 mm
Built-in microphone	✓	Depth	258 mm
Camera		Height	20 mm
Front camera	✓	Weight *	1.9 kg
Network		Packaging content	
Wi-Fi	✓	AC adapter included *	✓
Wi-Fi standards	802.11b, 802.11g, Wi-Fi 4 (802.11n), 802.11a, Wi-Fi 5 (802.11ac)		
Ethernet LAN	✓		
Bluetooth	✓		

Network		Other features	
Bluetooth version	4.0	3D	✗
Ports & interfaces		SIM card support	✓
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2		

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