



**HP ZBook 15 G4 Intel® Core™ i7 i7-7820HQ Mobil arbeidsstasjon  
39,6 cm (15.6") Full HD 16 GB DDR4-SDRAM 512 GB SSD NVIDIA®  
Quadro® M2200 Wi-Fi 5 (802.11ac) Windows 10 Pro Sort**

**Merke :** HP

**Product family:** ZBook

**Produktkode:** 1NC91PA

**Produktnavn :** 15 G4



HP ZBook 15 G4. Produkttype: Mobil arbeidsstasjon, Formfaktor: Clamshell. Prosessorfamilie: Intel® Core™ i7, Prosessormodell: i7-7820HQ, Prosessorfrekvens: 2,9 GHz. Skjermdiagonal: 39,6 cm (15.6"), HD-type: Full HD, Skjermopløsning: 1920 x 1080 piksler. Internminne: 16 GB, Internminnetype: DDR4-SDRAM. Total lagringskapasitet: 512 GB, Lagringsmedier: SSD. Mobilnettverksgenerasjon: 4G. Operativsystemprogramvare 04: Windows 10 Pro. Produktfarge: Sort

Design		Keyboard	
Product type *	Mobile workstation	Pointing device	Touchpad + Pointing Stick
Product colour *	Black	Numeric keypad *	✓
Form factor *	Clamshell	Keyboard backlit	✓
Country of origin	China	Spill-resistant keyboard	✓
Display		Software	
Display diagonal *	39.6 cm (15.6")	Operating system architecture	64-bit
Display resolution *	1920 x 1080 pixels	Operating system installed *	Windows 10 Pro
Touchscreen *	✗	Processor special features	
HD type	Full HD	Intel® Wireless Display (Intel® WiDi)	✓
Panel type	IPS	Intel® My WiFi Technology (Intel® MWT)	✓
LED backlight	✓	Intel® Smart Response Technology	✓
Native aspect ratio	16:9	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor		Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor manufacturer *	Intel	Intel® Turbo Boost Technology	2.0
Processor family *	Intel® Core™ i7	Enhanced Intel SpeedStep Technology	✓
Processor generation	7th gen Intel® Core™ i7	Intel HD Graphics	✓
Processor model *	i7-7820HQ	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor cores	4	Intel Clear Video Technology	✓
Processor threads	8	Intel® InTru™ 3D Technology	✓
Processor boost frequency	3.9 GHz	Intel® Quick Sync Video Technology	✓
Processor frequency *	2.9 GHz	Intel Flex Memory Access	✓
Processor cache	8 MB	Intel® Smart Cache	✓
Processor cache type	Smart Cache	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor lithography	14 nm	Intel Trusted Execution Technology	✓
Processor operating modes	64-bit	Intel Enhanced Halt State	✓
Processor series	Intel Core i7-7800 Mobile Series	Intel VT-x with Extended Page Tables (EPT)	✓
Processor codename	Kaby Lake		
Bus type	DMI3		
Thermal Design Power (TDP)	45 W		
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, 1x8, 2x4, 2x8	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 Mobile Internet Devices (Intel CVT for MID)	✓
Memory clock speed	2400 MHz	Intel 64	✓
Memory form factor	SO-DIMM	Execute Disable Bit	✓
Memory layout (slots x size)	1 x 16 GB	Idle States	✓
Memory slots	4x SO-DIMM	Thermal Monitoring Technologies	✓
Maximum internal memory *	64 GB	Processor package size	42 x 28 mm
Storage		Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Total storage capacity *	512 GB	CPU configuration (max)	1
Storage media *	SSD	Embedded options available	✗
Total SSDs capacity	512 GB	Graphics & IMC lithography	14 nm
Number of SSDs installed	1	Intel Virtualization Technology for Directed I/O (VT-d)	✓
SSD capacity	512 GB	Intel Identity Protection Technology version	1.00
SSD interface	PCI Express	Intel Smart Response Technology version	1.00
Optical drive type *	✗	Intel Stable Image Platform Program (SIPP) version	1.00
Card reader integrated	✓	Intel Secure Key Technology version	1.00
Compatible memory cards	SD, SDHC, SDXC	Intel Small Business Advantage (SBA) version	1.00
Graphics		Intel TSX-NI version	1.00
Discrete graphics card model *	NVIDIA® Quadro® M2200	Intel Virtualization Technology (VT-x)	✓
Discrete graphics card memory	4 GB	Processor ARK ID	97496
Discrete graphics memory type	GDDR5	Conflict-Free processor	✓
On-board graphics card *	✓	Brand-specific features	
Discrete graphics card *	✓	HP JumpStart	✓
On-board graphics card family	Intel® HD Graphics	HP Recovery Manager	✓
On-board graphics card model *	Intel® HD Graphics 630	HP Support Assistant	✓
On-board graphics card base frequency	350 MHz	HP Software provided	HP Performance Advisor, HP Remote Graphics Software (HP RGS), HP Velocity, HP Client Security Suite Gen3, HP ePrint Driver+JetAdvantage, HP WorkWise, HP LAN-WLAN Protection, HP Hotkey Support, HP Noise Cancellation
On-board graphics card dynamic frequency (max)	1100 MHz		
Maximum on-board graphics card memory	64 GB		
On-board graphics card DirectX version	12.0		
On-board graphics card OpenGL version	4.4	HP segment	Business
On-board graphics card ID	0x591B		
Audio		Battery	
Audio system	Bang & Olufsen	Battery technology	Lithium Polymer (LiPo)
Number of built-in speakers	2	Number of battery cells	9
Built-in microphone	✓	Battery capacity *	90 Wh
Camera		Power	
Front camera	✓	AC adapter power	150 W
Front camera signal format	720p	DC-in jack	✓
Network		Security	
Mobile network generation	4G	Cable lock slot	✓
3G standards	HSPA+	Trusted Platform Module (TPM)	✓
4G standard	LTE	Sustainability	
Wi-Fi	✓	Sustainability certificates	ENERGY STAR
Top Wi-Fi standard *	Wi-Fi 5 (802.11ac)		
Wi-Fi standards	802.11a, Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n)		
Mobile network connection *	✓		
Ethernet LAN	✓		
Ethernet LAN data rates	10,100,1000 Mbit/s		

Network		Weight & dimensions	
Bluetooth	✓	Width	386 mm
Bluetooth version	4.2	Depth	264 mm
Ports & interfaces		Height	26 mm
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	3	Weight *	2.6 kg
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	2	Packaging content	
Ethernet LAN (RJ-45) ports	1	AC adapter included *	✓
VGA (D-Sub) ports quantity	1	Manual	✓
Combo headphone/mic port	✗	Quick start guide	✓
Performance		Warranty card	✓
Motherboard chipset	Intel CM236	Power cord included	✓



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