



HP ZBook Power G11 Data Science Intel Core Ultra 7 165H Mobile workstation 40.6 cm (16") WUXGA 32 GB DDR5-SDRAM 2 TB SSD NVIDIA RTX 2000 Ada Wi-Fi 6E (802.11ax) Windows 11 Pro Silver

Brand : HP

Product family: ZBook Power

Product code: B5YG8UC#ABA

Product name : ZBook Power
G11 Data Science

- Windows 11 Pro
- Intel Core Ultra 7 165H (24MB Cache)
- 16" WUXGA 1920 x 1200 IPS, NVIDIA RTX 2000 Ada (8GB GDDR6)
- 32GB DDR5-SDRAM (2 x 16) & 2000GB SSD
Intel Core Ultra 7 165H (24MB Cache), 32GB DDR5-SDRAM, 2000GB SSD, 16" WUXGA 1920 x 1200 IPS, Intel Arc Graphics, NVIDIA RTX 2000 Ada (8GB GDDR6), LAN, WLAN, Webcam, Windows 11 Pro

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Design		Graphics	
Product type *	Mobile workstation	Discrete graphics card model *	NVIDIA RTX 2000 Ada
Product colour *	Silver	Discrete graphics card memory	8 GB
Form factor *	Clamshell	Discrete graphics memory type	GDDR6
Market positioning	Performance	On-board graphics card *	✓
Display		On-board GPU manufacturer	Intel
Display diagonal *	40.6 cm (16")	Discrete graphics card *	✓
Display resolution *	1920 x 1200 pixels	On-board graphics card family	Intel Arc Graphics
Touchscreen *	✗	On-board graphics card model *	Intel Arc Graphics
HD type	WUXGA	Audio	
Panel type	IPS	Number of built-in speakers	2
LED backlight	✓	Built-in microphone	✓
Native aspect ratio	16:10	Camera	
Anti-glare screen	✓	Front camera	✓
Display brightness	300 cd/m ²	Front camera resolution (numeric)	5 MP
Display diagonal (metric)	40.6 cm	Infrared (IR) camera	✓
RGB colour space	NTSC	Network	
Colour gamut	45%	Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
Processor		Wi-Fi standards	Wi-Fi 6E (802.11ax)
Processor manufacturer *	Intel	Mobile network connection *	✗
Processor family *	Intel Core Ultra 7	Antenna type	2x2
Processor generation	Intel® Core™ Ultra (Series 1)	WLAN controller model	Intel Wi-Fi 6E AX211
Processor model *	165H	WLAN controller manufacturer	Intel
Processor cores	16	Ethernet LAN	✓
Processor threads	22	Ethernet LAN data rates	10,100,1000 Mbit/s
Processor boost frequency	5 GHz	Bluetooth	✓
Performance cores	6	Bluetooth version	5.3
Efficient cores	8	Ports & interfaces	
Low Power Efficient-cores	2	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Performance-core Max Turbo Frequency	5 GHz	Ethernet LAN (RJ-45) ports	1
Efficient-core Max Turbo Frequency	3.8 GHz	HDMI ports quantity *	1
Low Power Efficient-core Max Turbo Frequency	2.5 GHz		

Processor		Ports & interfaces	
Performance-core base frequency	1.4 GHz	HDMI version	2.1
Efficient-core base frequency	0.9 GHz	Thunderbolt 4 ports quantity	2
Low Power Efficient-core Base Frequency	700 MHz	Intel® Thunderbolt 4	✓
Processor cache	24 MB	Combo headphone/mic port	✓
Processor cache type	Smart Cache	USB Type-C DisplayPort Alternate Mode	✓
Processor socket	BGA 2049		
Processor base power	28 W		
Maximum turbo power	115 W		
Neural processor unit (NPU)		Performance	
Neural processor unit (NPU)	Intel AI Boost	Motherboard chipset	Intel SoC
Sparsity support	✓		
Windows Studio effects support	✓		
AI software frameworks supported by NPU	DirectML, ONNX RT, OpenVINO, Windows ML		
Total processor performance up to	34 TOPs		
NPU performance up to	11 TOPs		
GPU performance up to	19 TOPs		
Memory		Keyboard	
Internal memory *	32 GB	Pointing device	Clickpad
Internal memory type	DDR5-SDRAM	Numeric keypad *	✓
Memory form factor	SO-DIMM	Keyboard backlit	✓
Memory layout (slots x size)	2 x 16 GB	Island-style keyboard	✓
Memory slots	2x SO-DIMM	Spill-resistant keyboard	✓
Maximum internal memory *	64 GB		
Memory data transfer rate	5600 MT/s		
Storage		Software	
Total storage capacity *	2 TB	Operating system installed *	Windows 11 Pro
Storage media *	SSD		
Total SSDs capacity	2 TB		
Number of SSDs installed	2		
SSD capacity	1 TB		
SSD memory type	TLC		
SSD interface	PCI Express 4.0		
NVMe	✓		
SSD form factor	M.2		
Optical drive type *	✗		
Card reader integrated	✓		
Compatible memory cards	SD		
		Brand-specific features	
		HP speaker type	HP Dual Speakers
		HP Smart AC Adapter	✓
		HP segment	Business
		Battery	
		Battery technology	Lithium Polymer (LiPo)
		Number of battery cells	6
		Battery capacity *	83 Wh
		Power	
		AC adapter power	150 W
		USB Type-C charging port *	✓
		USB Power Delivery (USB PD)	✓
		Security	
		Cable lock slot	✓
		Cable lock slot type	Nano
		Sustainability	
		Sustainability certificates	ENERGY STAR
		Weight & dimensions	
		Width	359.4 mm
		Depth	251 mm
		Height	22.9 mm
		Weight *	2.12 kg
		Packaging data	
		Package width	552 mm
		Package depth	69 mm
		Package height	345 mm



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