



HP ZBook 8 G1i Data Science Intel Core Ultra 9 285H Mobile workstation 40.6 cm (16") WUXGA 32 GB DDR5-SDRAM 1 TB SSD NVIDIA RTX 500 Ada Wi-Fi 7 (802.11be) Windows 11 Pro AI Workstation, AI PC Silver



Brand : HP

Product family: ZBook 8

Product code: B72U7ET

Product name : ZBook 8 G1i Data Science

- Intel Core™ Ultra 9 285H (up to 5.4 GHz with Intel Turbo Boost Technology, 24 MB L3 cache, 16 cores, 16 threads)
 - Windows 11 Pro
 - 40.6 cm (16") diagonal WUXGA display
 - NVIDIA RTX™ 500 Ada Generation Laptop GPU (4 GB GDDR6 dedicated)
 - 32 GB DDR5-5600 MT/s (1 x 32 GB), 1 TB PCIe NVMe™ SSD
- ZBook 8 G1i 16 inch Mobile Workstation PC - Data Science, 16", Windows 11 Pro, Intel Core™ Ultra 9, 32GB RAM, 1TB SSD, RTX™ 500 Ada, WUXGA, Meteor silver, AI Workstation; AI PC

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Step up performance. Not size.

Pro-level performance combines with true mobility in this sleek and powerful laptop. Review 3D designs, create with AI tools in pro apps, and work across multiple projects wherever you are. Stay productive with an AI workstation that delivers both performance and long-lasting battery.^[1]

Design		Audio	
Colour name	Meteor silver	Built-in microphone	✓
Product type *	Mobile workstation	Number of microphones	2
Product colour *	Silver	Camera	
Form factor *	Clamshell	Front camera	✓
Market positioning	Performance	Front camera resolution (numeric)	5 MP
Intel® vPro™ Platform Eligibility	✓	Network	
Country of origin	China, Mexico	Wi-Fi	✓
Original brand name	HP	Top Wi-Fi standard *	Wi-Fi 7 (802.11be)
Display		Wi-Fi standards	Wi-Fi 7 (802.11be)
Display diagonal *	40.6 cm (16")	Mobile network connection *	✗
Display resolution *	1920 x 1200 pixels	Antenna type	2x2
Touchscreen *	✗	WLAN controller model	Intel Wi-Fi 7 BE201
HD type	WUXGA	WLAN controller manufacturer	Intel
Panel type	IPS	Ethernet LAN	✓
Anti-glare screen	✓	Ethernet LAN data rates	10,100,1000 Mbit/s
Display brightness	300 cd/m ²	Bluetooth	✓
Display diagonal (metric)	40.6 cm	Bluetooth version	5.4
RGB colour space	sRGB	Cabling technology	10/100/1000Base-T(X)
Colour gamut	62.5%	Ports & interfaces	
sRGB coverage (typical)	62.5%	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	1
Processor		USB 3.2 Gen 2x2 Type-C ports quantity	1
Processor manufacturer *	Intel	USB4 Gen 3x2 ports quantity	2
Processor family *	Intel Core Ultra 9	Ethernet LAN (RJ-45) ports	1
Processor generation	Intel Core Ultra (Series 2)	HDMI ports quantity *	1
Processor model *	285H	HDMI version	2.1
Processor cores	16	Thunderbolt 4 ports quantity	2
Processor threads	16	Intel® Thunderbolt 4	✓
Processor boost frequency	5.4 GHz		
Performance cores	6		
Efficient cores	8		

Processor		Ports & interfaces	
Low Power Efficient-cores	2	Microphone in	✓
Performance-core Max Turbo Frequency	5.4 GHz	Combo headphone/mic port	✓
Efficient-core Max Turbo Frequency	4.5 GHz	USB Type-C DisplayPort Alternate Mode	✓
Low Power Efficient-core Max Turbo Frequency	2.5 GHz	Performance	
Performance-core base frequency	2.9 GHz	Motherboard chipset	Intel SoC
Efficient-core base frequency	2.7 GHz	Keyboard	
Low Power Efficient-core Base Frequency	1000 MHz	Pointing device	Clickpad
Processor cache	24 MB	Numeric keypad *	✓
Processor cache type	L3	Keyboard backlit	✓
Processor base power	45 W	Spill-resistant keyboard	✓
Maximum turbo power	115 W	Full-size keyboard	✓
Neural processor unit (NPU)		Input device model	HP Premium Quiet Keyboard
Neural processor unit (NPU)	Intel AI Boost	Software	
Sparsity support	✓	Operating system installed *	Windows 11 Pro
Windows Studio effects support	✓	Processor special features	
AI software frameworks supported by NPU	DirectML, OpenVINO, Windows ML, ONNX RT, WebNN	Intel® Turbo Boost Technology	✓
Total processor performance up to	99 TOPs	Brand-specific features	
NPU performance up to	13 TOPs	HP speaker type	HP Dual Speakers
GPU performance up to	77 TOPs	HP Artificial Intelligence	AI Workstation, AI PC
Memory		HP segment	Business
Internal memory *	32 GB	HP GTIN (EAN/UPC)	199251991240
Internal memory type	DDR5-SDRAM	Battery	
Memory clock speed	5600 MHz	Battery technology	Lithium Polymer (LiPo)
Memory form factor	SO-DIMM	Number of battery cells	8
Memory layout (slots x size)	1 x 32 GB	Battery capacity *	77 Wh
Memory slots	2x SO-DIMM	Fast charging	✓
Maximum internal memory *	32 GB	Fast charging time (50%)	30 min
Memory channels	Dual-channel	Power	
Non-ECC	✓	AC adapter power	140 W
Storage		AC adapter frequency	50 - 60 Hz
Total storage capacity *	1 TB	AC adapter input voltage	100 - 240 V
Storage media *	SSD	USB Type-C charging port *	✓
Total SSDs capacity	1 TB	USB Power Delivery (USB PD)	✓
Number of SSDs installed	1	Security	
SSD capacity	1 TB	Cable lock slot	✓
SSD interface	PCI Express	Password protection	✓
NVMe	✓	Password protection type	BIOS, Power on
Optical drive type *	✗	Sustainability	
Graphics		Sustainability compliance	✓
Discrete GPU manufacturer	NVIDIA	Sustainability certificates	ENERGY STAR, TCO, TCO10
Discrete graphics card model *	NVIDIA RTX 500 Ada	Low halogen; 40% post-consumer recycled plastic; Bulk packaging available; External power supply 90% efficiency; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable; Outside box and corrugated cushions are 100% sustainably sourced and recyclable	
Discrete graphics card memory	4 GB		
Discrete graphics memory type	GDDR6	Sustainable technologies and materials	
On-board graphics card *	✓	Sustainable technologies and materials	
On-board GPU manufacturer	Intel		
Discrete graphics card *	✓		
On-board graphics card family	Intel Arc Graphics		
On-board graphics card model *	Intel Arc 140T	Weight & dimensions	
Audio		Width	359 mm
Built-in speaker(s)	✓	Depth	250 mm
Number of built-in speakers	2	Height	19.2 mm
		Weight *	1.76 kg

Packaging data

Package width	504 mm
Package depth	305 mm
Package height	63 mm

Packaging content

Keyboard included	✓
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Logistics data

Harmonized System (HS) code	8471300000
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Other features

UNSPSC-code	43211503
Memory module type	SODIMM
Manufacturer warranty	1 year (1/1/0) limited warranty includes 1 year of parts and labor. No on-site repair. Terms and conditions vary by country. Certain restrictions and exclusions apply.



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