



HP ZBook 8 G1i Data Science Intel Core Ultra 7 255H Mobile workstation 40.6 cm (16") WUXGA 16 GB DDR5-SDRAM 512 GB 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: B72U5ET

Product name : ZBook 8 G1i Data Science

- Intel Core™ Ultra 7 255H (up to 5.1 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)
 - 16 GB DDR5-5600 MT/s (1 x 16 GB), 512 GB PCIe NVMe™ SSD
- ZBook 8 G1i 16 inch Mobile Workstation PC - Data Science, 16", Windows 11 Pro, Intel Core™ Ultra 7, 16GB RAM, 512GB SSD, NVIDIA RTX™ 500 Ada, WUXGA, Meteor silver, AI Workstation; AI PC

HP ZBook 8 G1i Data Science Intel Core Ultra 7 255H Mobile workstation 40.6 cm (16") WUXGA 16 GB DDR5-SDRAM 512 GB SSD NVIDIA RTX 500 Ada Wi-Fi 7 (802.11be) Windows 11 Pro AI Workstation, AI PC Silver:

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	Number of built-in speakers	2
Product type *	Mobile workstation	Built-in microphone	✓
Product colour *	Silver	Number of microphones	2
Form factor *	Clamshell	Camera	
Market positioning	Performance	Front camera	✓
Intel® vPro™ Platform Eligibility	✗	Front camera resolution (numeric)	5 MP
Country of origin	China, Mexico	Network	
Original brand name	HP	Wi-Fi	✓
Display		Top Wi-Fi standard *	Wi-Fi 7 (802.11be)
Display diagonal *	40.6 cm (16")	Wi-Fi standards	Wi-Fi 7 (802.11be)
Display resolution *	1920 x 1200 pixels	Mobile network connection *	✗
Touchscreen *	✗	Antenna type	2x2
HD type	WUXGA	WLAN controller model	Intel Wi-Fi 7 BE201
Panel type	IPS	WLAN controller manufacturer	Intel
Anti-glare screen	✓	Ethernet LAN	✓
Display brightness	300 cd/m ²	Bluetooth	✓
Display diagonal (metric)	40.6 cm	Bluetooth version	5.4
RGB colour space	sRGB	Ports & interfaces	
Colour gamut	62.5%	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	1
sRGB coverage (typical)	62.5%	USB 3.2 Gen 2x2 Type-C ports quantity	1
Processor		USB4 Gen 3x2 ports quantity	2
Processor manufacturer *	Intel	Ethernet LAN (RJ-45) ports	1
Processor family *	Intel Core Ultra 7	HDMI ports quantity *	1
Processor generation	Intel Core Ultra (Series 2)	HDMI version	2.1
Processor model *	255H	Thunderbolt 4 ports quantity	2
Processor cores	16	Intel® Thunderbolt 4	✓
Processor threads	16	Microphone in	✓
Processor boost frequency	5.1 GHz		
Performance cores	6		
Efficient cores	8		

Processor		Ports & interfaces	
Low Power Efficient-cores	2	Combo headphone/mic port	✓
Performance-core Max Turbo Frequency	5.1 GHz	USB Type-C DisplayPort Alternate Mode	✓
Efficient-core Max Turbo Frequency	4.4 GHz	Performance	
Low Power Efficient-core Max Turbo Frequency	2.5 GHz	Motherboard chipset	Intel SoC
Performance-core base frequency	2 GHz	Keyboard	
Efficient-core base frequency	1.5 GHz	Pointing device	Clickpad
Low Power Efficient-core Base Frequency	700 MHz	Numeric keypad *	✓
Processor cache	24 MB	Keyboard backlit	✓
Processor cache type	L3	Spill-resistant keyboard	✓
Processor base power	28 W	Full-size keyboard	✓
Maximum turbo power	115 W	Input device model	HP Premium Quiet Keyboard
Neural processor unit (NPU)		Software	
Neural processor unit (NPU)	Intel AI Boost	Operating system installed *	Windows 11 Pro
Sparsity support	✓	Processor special features	
Windows Studio effects support	✓	Intel® Turbo Boost Technology	✓
AI software frameworks supported by NPU	DirectML, OpenVINO, Windows ML, ONNX RT, WebNN	Brand-specific features	
Total processor performance up to	96 TOPs	HP speaker type	HP Dual Speakers
NPU performance up to	13 TOPs	HP Artificial Intelligence	AI Workstation, AI PC
GPU performance up to	74 TOPs	HP segment	Business
Memory		HP GTIN (EAN/UPC)	199251990892
Internal memory *	16 GB	Battery	
Internal memory type	DDR5-SDRAM	Battery technology	Lithium Polymer (LiPo)
Memory clock speed	5600 MHz	Number of battery cells	8
Memory form factor	SO-DIMM	Battery capacity *	77 Wh
Memory layout (slots x size)	1 x 16 GB	Fast charging	✓
Memory slots	2x SO-DIMM	Fast charging time (50%)	30 min
Maximum internal memory *	16 GB	Power	
Memory channels	Dual-channel	AC adapter power	140 W
Storage		AC adapter frequency	50 - 60 Hz
Total storage capacity *	512 GB	AC adapter input voltage	100 - 240 V
Storage media *	SSD	USB Type-C charging port *	✓
Total SSDs capacity	512 GB	USB Power Delivery (USB PD)	✓
Number of SSDs installed	1	Security	
SSD capacity	512 GB	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	Sustainable technologies and materials 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		
On-board graphics card *	✓	Weight & dimensions	
On-board GPU manufacturer	Intel	Width	359 mm
Discrete graphics card *	✓	Depth	250 mm
On-board graphics card family	Intel Arc Graphics	Height	19.2 mm
On-board graphics card model *	Intel Arc 140T	Weight *	1.76 kg
Audio		Packaging data	
Built-in speaker(s)	✓	Package width	504 mm

Packaging data

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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