



HP ZBook Studio G9 Intel® Core™ i7 i7-12800H Mobile workstation 40.6 cm (16") WUXGA 32 GB DDR5-SDRAM 1 TB SSD NVIDIA GeForce RTX 3070 Ti Wi-Fi 6E (802.11ax) Windows 11 Pro Grey



Brand : HP

Product family: ZBook Studio

Product code: 62U58EA

Product name : G9

- Intel® Core™ i7-12800H (up to 4.8 GHz with Intel® Turbo Boost Technology, 24 MB L3 cache, 14 cores, 20 threads)
 - Windows 11 Pro
 - 40.6 cm (16") diagonal WUXGA display
 - NVIDIA® GeForce RTX™ 3070 Ti (8 GB GDDR6X dedicated)
 - 32 GB memory; 1 TB SSD storage
- ZBook Studio 16 inch G9 Mobile Workstation PC Wolf Pro Security Edition - Data Science, 16", Windows 11 Pro, Intel® Core™ i7, 32GB RAM, 1TB SSD, NVIDIA® GeForce RTX™ 3070 Ti, WUXGA

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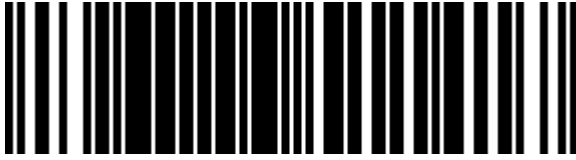
Powerfully immersive. Perfectly sized

Be ready when inspiration strikes. Packed with professional performance in an incredibly sleek PC that comfortably fits in your bag, the ZBook Studio is engineered to get you in the zone and help you stay focused. Now you can build complex assemblies, render in real time or visualize data—from anywhere.

Design		Network	
Product type *	Mobile workstation	WLAN controller manufacturer	Intel
Product colour *	Grey	Bluetooth	✓
Form factor *	Clamshell	Bluetooth version	5.3
Market positioning	Performance	Ports & interfaces	
Introduction year	2022	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	1
Country of origin	China	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Display		Thunderbolt 4 ports quantity	2
Display diagonal *	40.6 cm (16")	Combo headphone/mic port	✓
Display resolution *	1920 x 1200 pixels	USB Type-C DisplayPort Alternate Mode	✓
Touchscreen *	✗	USB Power Delivery	✓
HD type	WUXGA	USB Sleep-and-Charge	✓
Panel type	IPS	USB Sleep-and-Charge ports	2
Anti-glare screen	✓	Keyboard	
Display bezel technology	Micro-Edge	Keyboard special features	Spill-resistant
Display brightness	400 cd/m ²	Pointing device	Touchpad
Display diagonal (metric)	40.6 cm	Numeric keypad *	✗
RGB colour space	sRGB	Keyboard backlit	✓
Colour gamut	100%	Spill-resistant keyboard	✓
Processor		Input device model	HP Premium Quiet Keyboard
Processor manufacturer *	Intel		
Processor family *	Intel® Core™ i7		
Processor generation	12th gen Intel® Core™ i7		
Processor model *	i7-12800H		
Processor cores	14		
Processor threads	20		
Processor boost frequency	4.8 GHz		
Processor cache	24 MB		
Processor cache type	L3		
Configurable TDP-down	35 W		
Memory			
Internal memory *	32 GB		
Internal memory type	DDR5-SDRAM		

Memory		Software	
Memory clock speed	4800 MHz	Pre-installed software	Bing search for IE11; Buy Office; HP Hotkey Support; HP Noise Cancellation Software; HP Performance Advisor; HP Support Assistant; Native Miracast support; HP Connection Optimizer; HP Privacy Settings; HP QuickDrop; Data Science Stack; HP Easy Clean; HP PC Hardware Diagnostics; HP ZCentral Remote Boost 2020 Software for Z workstation; Tile™ Application; Windows 10 Cloud Recovery Client; 1-month Adobe® free trial offer; HP Z Light Space; HP Camera & Super Resolution Software
Memory form factor	SO-DIMM		
Memory layout (slots x size)	2 x 16 GB		
Memory slots	2x SO-DIMM		
Number of free internal memory expansion slots	2		
Memory channels	Dual-channel		
Storage		Operating system installed *	
Total storage capacity *	1 TB	Windows 11 Pro	
Storage media *	SSD	Bundled software	
Total SSDs capacity	1 TB	HP Wolf Pro Security Edition (1 year)	
Number of SSDs installed	1	Processor special features	
SSD capacity	1 TB	Intel Flex Memory Access	✓
SSD memory type	TLC	Intel Trusted Execution Technology	✓
SSD interface	PCI Express, NVMe	Intel VT-x with Extended Page Tables (EPT)	✓
NVMe	✓	Intel Stable Image Platform Program (SIPP)	✓
Optical drive type *	✗	Execute Disable Bit	✓
Card reader integrated	✓	CPU configuration (max)	1
Compatible memory cards	MicroSD (TransFlash)	Embedded options available	✗
Graphics		Intel Virtualization Technology for Directed I/O (VT-d)	✓
Discrete GPU manufacturer	NVIDIA	Intel Virtualization Technology (VT-x)	✓
Discrete graphics card model *	NVIDIA GeForce RTX 3070 Ti	Brand-specific features	
Discrete graphics card memory	8 GB	HP Connection Optimizer	✓
Discrete graphics memory type	GDDR6X	HP Support Assistant	✓
On-board graphics card *	✓	Absolute persistence module; HP Device Access Manager; HP Power On Authentication; Trusted Platform Module TPM 2.0 Embedded Security Chip; Master Boot Record security; Pre-boot authentication; Windows Defender; HP Manageability Integration Kit; HP BIOSphere Gen6; HP Sure Start Gen6; HP Sure Admin; HP Image Assistant; HP Tamper Lock; MS Bitlocker Encryption; Nano Security Lock Slot; HP Client Security Manager Gen7; HP Privacy Key	
On-board GPU manufacturer	Intel	HP Security tools	
Discrete graphics card *	✓	HP Management tools	
On-board graphics card family	Intel Iris Xe Graphics	HP segment	
On-board graphics card model *	Intel Iris Xe Graphics	HP GTIN (EAN/UPC)	
Number of discrete graphics cards	1	196786511417	
Audio		Battery	
Audio system	B&O PLAY	Battery technology	Lithium Polymer (LiPo)
Built-in speaker(s)	✓	Number of battery cells	6
Number of built-in speakers	4	Battery capacity *	86 Wh
Speakers manufacturer	Bang & Olufsen	Fast charging	✓
Built-in microphone	✓	Fast charging time (50%)	30 min
Number of microphones	2	Power	
Camera		AC adapter power	
Front camera	✓	200 W	
Front camera signal format	720p	Security	
Front camera HD type	HD	Cable lock slot	✓
Infrared (IR) camera	✓	Fingerprint reader	✓
Network		Trusted Platform Module (TPM)	✓
Wi-Fi	✓	Trusted Platform Module (TPM) version	2.0
Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)		
Wi-Fi standards	Wi-Fi 6E (802.11ax)		
Mobile network connection *	✗		
Antenna type	2x2		
WLAN controller model	Intel Wi-Fi 6E AX211		

Security	
Password protection	✓
Password protection type	BIOS, Power on, User
Sustainability	
Sustainability compliance	✓
Sustainability certificates	TCO
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; Ocean-bound plastic in speaker enclosure(s)
Weight & dimensions	
Width	356 mm
Depth	242 mm
Height	19 mm
Weight *	1.73 kg
Packaging data	
Package width	552 mm
Package depth	69 mm
Package height	345 mm
Packaging content	
Keyboard included	✓
Logistics data	
Harmonized System (HS) code	8471300000
Other features	
Number of speakers	4



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