HP

HP ZBook Studio G9 Intel® Core™ i7 i7-12800H Mobile workstation 40.6 cm (16") WUXGA 32 GB DDR5-SDRAM 1 TB SSD NVIDIA RTX A3000 Wi-Fi 6E (802.11ax) Windows 11 Pro Grey

Brand : HP   **Product family:** ZBook Studio   **Product code:** 62U22EA

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 (preinstalled with Windows 10 Pro Downgrade)
- 40.6 cm (16") diagonal WUXGA display
- NVIDIA RTX™ A3000 Laptop GPU (12 GB GDDR6 dedicated)
- 32 GB memory; 1 TB SSD storage
ZBook Studio 16 inch G9 Mobile Workstation PC, 16", Windows 11 Pro (preinstalled with Windows 10 Pro Downgrade), Intel® Core™ i7, 32GB RAM, 1TB SSD, RTX™ A3000, WUXGA

HP ZBook Studio G9 Intel® Core™ i7 i7-12800H Mobile workstation 40.6 cm (16") WUXGA 32 GB DDR5-SDRAM 1 TB SSD NVIDIA RTX A3000 Wi-Fi 6E (802.11ax) Windows 11 Pro Grey:

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

Product type *	Mobile workstation
Product colour *	Grey
Form factor *	Clamshell
Market positioning	Performance
Introduction year	2022
Country of origin	China

Display

Display diagonal *	40.6 cm (16")
Display resolution *	1920 x 1200 pixels
Touchscreen *	✘
HD type	WUXGA
Panel type	IPS
Anti-glare screen	✔
Display bezel technology	Micro-Edge
Display brightness	400 cd/m²
Display diagonal (metric)	40.6 cm
RGB colour space	sRGB
Colour gamut	100%

Processor

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 clock speed	4800 MHz

Network

WLAN controller model	Intel Wi-Fi 6E AX211
WLAN controller manufacturer	Intel
Bluetooth	✔
Bluetooth version	5.3

Ports & interfaces

USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	1
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Thunderbolt 4 ports quantity	2
Combo headphone/mic port	✔
USB Type-C DisplayPort Alternate Mode	✔
USB Power Delivery	✔
USB Sleep-and-Charge	✔
USB Sleep-and-Charge ports	2

Keyboard

Keyboard special features	Resistente a liquidi e infiltrazioni
Pointing device	Touchpad
Numeric keypad *	✘
Keyboard backlit	✔
Spill-resistant keyboard	✔
Full-size keyboard	✔
Input device model	Tastiera HP Premium Quiet

Memory

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

Total storage capacity *	1 TB
Storage media *	SSD
Total SSDs capacity	1 TB
Number of SSDs installed	1
SSD capacity	1 TB
SSD memory type	TLC
SSD interface	PCI Express, NVMe
NVMe	✓
Optical drive type *	✘
Card reader integrated	✓
Compatible memory cards	MicroSD (TransFlash)

Graphics

Discrete GPU manufacturer	NVIDIA
Discrete graphics card model *	NVIDIA RTX A3000
Discrete graphics card memory	12 GB
Discrete graphics memory type	GDDR6
On-board graphics card *	✓
On-board GPU manufacturer	Intel
Discrete graphics card *	✓
On-board graphics card family	Intel Iris Xe Graphics
On-board graphics card model *	Intel Iris Xe Graphics
Number of discrete graphics cards	1

Audio

Audio system	B&O PLAY
Built-in speaker(s)	✓
Number of built-in speakers	4
Speakers manufacturer	Bang & Olufsen
Built-in microphone	✓
Number of microphones	2

Camera

Front camera	✓
Front camera signal format	720p
Front camera HD type	HD
Infrared (IR) camera	✓

Network

Wi-Fi	✓
Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
Wi-Fi standards	Wi-Fi 6E (802.11ax)
Mobile network connection *	✘
Antenna type	2x2

Software

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
Operating system installed *	Windows 11 Pro

Processor special features

Intel Flex Memory Access	✓
Intel Trusted Execution Technology	✓
Intel VT-x with Extended Page Tables (EPT)	✓
Intel Stable Image Platform Program (SIPP)	✓
Execute Disable Bit	✓
CPU configuration (max)	1
Embedded options available	✘
Intel Virtualization Technology for Directed I/O (VT-d)	✓
Intel Virtualization Technology (VT-x)	✓

Brand-specific features

HP Connection Optimizer	✓
HP Support Assistant	✓
HP Security tools	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
HP Management tools	HP Power Manager
HP segment	Business
HP GTIN (EAN/UPC)	196786136030

Battery

Battery technology	Lithium Polymer (LiPo)
Number of battery cells	6
Battery capacity *	86 Wh
Fast charging	✓
Fast charging time (50%)	30 min

Power

AC adapter power	200 W

Security

Cable lock slot	✓
Trusted Platform Module (TPM)	✓
Trusted Platform Module (TPM) version	2.0
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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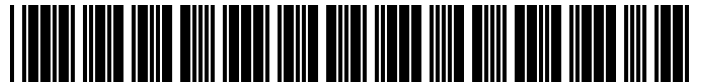
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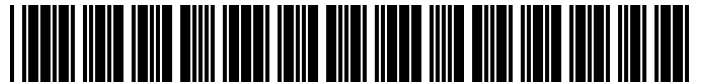
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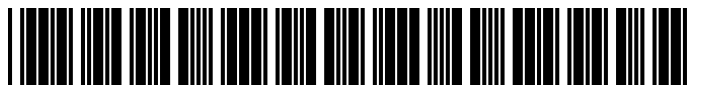
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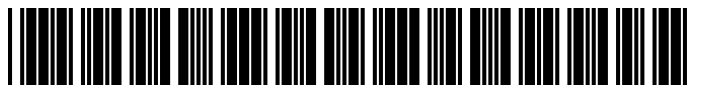
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