HP

HP ZBook Studio 16 G10 Intel® Core™ i7 i7-13700H Mobile workstation 40.6 cm (16") WUXGA 32 GB DDR5-SDRAM 512 GB SSD NVIDIA GeForce RTX 4070 Wi-Fi 6E (802.11ax) Windows 11 Pro Grey

Brand : HP

Product family: ZBook Studio

Product code: 98J77ET#ABH

Product name : 16 G10

HP ZBook Studio 16 G10. Product type: Mobile workstation, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-13700H, Processor frequency: 2.4 GHz. Display diagonal: 40.6 cm (16"), HD type: WUXGA, Display resolution: 1920 x 1200 pixels. Internal memory: 32 GB, Internal memory type: DDR5-SDRAM. Total storage capacity: 512 GB, Storage media: SSD. On-board graphics card model: Intel Iris Xe Graphics. Operating system installed: Windows 11 Pro. Product colour: Grey

Design

Product type *	Mobile workstation
Product colour *	Grey
Form factor *	Clamshell
Market positioning	Performance
Introduction year	2023
Original brand name	HP

Display

Display diagonal *	40.6 cm (16")
Display resolution *	1920 x 1200 pixels
Touchscreen *	✗
HD type	WUXGA
Panel type	IPS
LED backlight	✔
Native aspect ratio	16:10
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	13th gen Intel® Core™ i7
Processor model *	i7-13700H
Processor cores	14
Processor threads	20
Processor boost frequency	5 GHz
Processor frequency *	2.4 GHz
Performance cores	6
Efficient cores	8
Performance-core Max Turbo Frequency	5 GHz
Efficient-core Max Turbo Frequency	3.7 GHz
Processor cache	24 MB

Camera

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
WLAN controller model	Intel Wi-Fi 6E AX211
WLAN controller manufacturer	Intel
Ethernet LAN	✗
Bluetooth	✔
Bluetooth version	5.3
Miracast	✔

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
Intel® Thunderbolt 4	✔
Combo headphone/mic port	✔
USB Type-C DisplayPort Alternate Mode	✔
USB Sleep-and-Charge	✔
USB Sleep-and-Charge ports	2

Keyboard

Keyboard special features	Morsbestendig
Pointing device	Clickpad
Numeric keypad *	✗
Keyboard backlit	✔
Spill-resistant keyboard	✔
Full-size keyboard	✔

Processor

Processor cache type	L3
Processor base power	45 W
Maximum turbo power	115 W

Memory

Internal memory *	32 GB
Internal memory type	DDR5-SDRAM
Memory clock speed	5600 MHz
Memory form factor	SO-DIMM
Memory layout (slots x size)	2 x 16 GB
Memory slots	2x SO-DIMM
Maximum internal memory *	64 GB
Memory channels	Dual-channel
ECC	✘
Non-ECC	✔

Storage

Total storage capacity *	512 GB
Storage media *	SSD
Total SSDs capacity	512 GB
Number of SSDs installed	1
SSD capacity	512 GB
SSD memory type	TLC
SSD interface	PCI Express 4.0
NVMe	✔
Optical drive type *	✘
Card reader integrated	✔
Compatible memory cards	MicroSD (TransFlash)

Graphics

Discrete GPU manufacturer	NVIDIA
Discrete graphics card model *	NVIDIA GeForce RTX 4070
Discrete graphics card memory	8 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	✔

Keyboard

Keyboard layout	QWERTY

Software

Trial software	HP Wolf Pro Security Edition
Operating system installed *	Windows 11 Pro

Brand-specific features

HP speaker type	HP Quad Speakers
HP Connection Optimizer	✔
HP Support Assistant	✔
HP front camera	HP Webcam HD IR
HP Security tools	HP Credential Manager; HP Power On Authentication; HP Manageability Integration Kit; HP BIOSphere Gen6; HP Sure Start Gen6; HP Sure Admin; HP Image Assistant; HP Image Assistant Gen4.6; HP Client Security Manager Gen7
HP Management tools	HP Power Manager
HP Software provided	HP Hotkey Support; HP Noise Cancellation Software; HP Performance Advisor; HP Support Assistant; HP Connection Optimizer; myHP; HP Privacy Settings; HP Easy Clean; HP PC Hardware Diagnostics; HP Z Light Space; HP Camera & Super Resolution Software; HP Presence
HP segment	Business

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
AC adapter frequency	50 - 60 Hz
AC adapter input voltage	100 - 240 V
DC-in jack	✔
USB Power Delivery (USB PD)	✔

Security

Cable lock slot	✔
Cable lock slot type	Nano
Fingerprint reader	✔
Trusted Platform Module (TPM)	✔
Trusted Platform Module (TPM) version	2.0
Password protection	✔
Password protection type	BIOS, Power on, User

Certificates

Low halogen	✔

Sustainability

Sustainability compliance	✔
Sustainability certificates	TCO

Weight & dimensions

Width	356 mm
Depth	242 mm
Height	19 mm
Weight *	1.73 kg

Packaging data
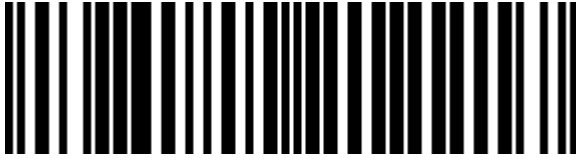
Package width	552 mm
Package depth	69 mm
Package height	345 mm

Packaging content

Keyboard included	✔

Other features

Number of speakers	4

0198122212217

198122212217