HP

HP ZBook Power 15.6 G9 Intel® Core™ i7 i7-12700H Mobile workstation 39.6 cm (15.6") Full HD 16 GB DDR5-SDRAM 512 GB SSD NVIDIA T600 Wi-Fi 6E (802.11ax) Windows 11 Pro Grey

Brand : HP   **Product family:** ZBook Power   **Product code:** 69Q53EA

Product name : 15.6 G9

- Intel® Core™ i7-12700H (up to 4.7 GHz with Intel® Turbo Boost Technology, 24 MB L3 cache, 14 cores, 20 threads)
- Windows 11 Pro (preinstalled with Windows 10 Pro Downgrade)
- 39.6 cm (15.6") diagonal FHD display
- NVIDIA® Quadro® T600 (4 GB GDDR6 dedicated)
- 16 GB memory; 512 GB SSD storage
ZBook Power 15.6 inch G9 Mobile Workstation PC, 15.6", Windows 11 Pro (preinstalled with Windows 10 Pro Downgrade), Intel® Core™ i7, 16GB RAM, 512GB SSD, NVIDIA® Quadro® T600, FHD

HP ZBook Power 15.6 G9 Intel® Core™ i7 i7-12700H Mobile workstation 39.6 cm (15.6") Full HD 16 GB DDR5-SDRAM 512 GB SSD NVIDIA T600 Wi-Fi 6E (802.11ax) Windows 11 Pro Grey:

Pro-certified power within reach
Upgrade to professional ZBook performance and security at an unbelievably affordable price. Power up your productivity on this durable yet premium device—delivering enhanced collaboration features and pro-grade components to seamlessly run leading professional software applications.

Design

Product type *	Mobile workstation
Product colour *	Grey
Form factor *	Clamshell
Market positioning	Performance

Display

Display diagonal *	39.6 cm (15.6")
Display resolution *	1920 x 1080 pixels
Touchscreen *	✗
HD type	Full HD
Panel type	IPS
Native aspect ratio	16:9
Anti-glare screen	✔
Display bezel technology	Micro-Edge
Display brightness	400 cd/m²
Display diagonal (metric)	39.6 cm
RGB colour space	NTSC
Colour gamut	72%

Processor

Processor manufacturer *	Intel
Processor family *	Intel® Core™ i7
Processor generation	12th gen Intel® Core™ i7
Processor model *	i7-12700H
Processor cores	14
Processor threads	20
Processor boost frequency	4.7 GHz
Processor frequency *	2.3 GHz
Processor cache	24 MB
Processor cache type	L3
Configurable TDP-down	35 W

Memory

Internal memory *	16 GB
Internal memory type	DDR5-SDRAM
Memory clock speed	4800 MHz

Network

Ethernet LAN data rates	10,100,1000 Mbit/s
Bluetooth	✔
Bluetooth version	5.3

Ports & interfaces

USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	3
Ethernet LAN (RJ-45) ports	1
HDMI ports quantity *	1
HDMI version	2.0
Combo headphone/mic port	✔
USB Type-C DisplayPort Alternate Mode	✔
USB Sleep-and-Charge	✔
USB Sleep-and-Charge ports	1

Performance

Repairability index	9.1

Keyboard

Keyboard special features	Étanche
Pointing device	Clickpad
Numeric keypad *	✔
Keyboard backlit	✔
Spill-resistant keyboard	✔
Full-size keyboard	✔
Input device model	Clavier HP Premium Pro

Memory

Memory form factor	SO-DIMM
Memory layout (slots x size)	1 x 16 GB
Memory slots	2x SO-DIMM
Maximum internal memory *	64 GB
Number of free internal memory expansion slots	1
Memory channels	Dual-channel

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, NVMe
NVMe	✔
Optical drive type *	✘

Graphics

Discrete GPU manufacturer	NVIDIA
Discrete graphics card model *	NVIDIA T600
Discrete graphics card memory	4 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

Built-in speaker(s)	✔
Number of built-in speakers	2
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
WLAN controller model	Intel Wi-Fi 6E AX211
WLAN controller manufacturer	Intel
Ethernet LAN	✔

Software

Pre-installed software	Bing search for IE11; Buy Office; HP Hotkey Support; HP Performance Advisor; HP Recovery Manager; HP Remote Graphics Software; HP Support Assistant; HP JumpStart; Native Miracast support; HP Connection Optimizer; HP Cloud Recovery; HP Admin; HP Privacy Settings; HP QuickDrop; HP Easy Clean; HP PC Hardware Diagnostics; HP ZCentral Remote Boost 2020 Software for Z workstation; Tile™ Application; HP Auto Lock and Awake
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)	✔
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 JumpStart	✔
HP Support Assistant	✔
HP Security tools	Absolute persistence module; HP Device Access Manager; HP Power On Authentication; HP Security Manager; Integrated smart card reader; Master Boot Record security; Pre-boot authentication; HP Sure Click; Windows Defender; HP Secure Erase; HP Manageability Integration Kit; HP Sure Sense; HP Secure Platform; HP Sure Recover Gen3; HP BIOSphere Gen6; HP Sure Start Gen6; HP Sure Run Gen3; HP Tamper Lock; Nano Security Lock Slot; HP Client Security Suite Gen7; Trusted Platform Module TPM 2.0; Windows Secured Core
HP Management tools	HP Power Manager
HP segment	Business
HP GTIN (EAN/UPC)	196548621064

Battery

Battery technology	Lithium Polymer (LiPo)
Number of battery cells	6
Battery capacity *	83 Wh

Power

AC adapter power	150 W
USB Type-C charging port *	✔
USB Power Delivery (USB PD)	✔

Security

Cable lock slot	✔
Fingerprint reader	✔
Trusted Platform Module (TPM)	✔
Trusted Platform Module (TPM) version	2.0
Password protection	✔

Security	
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	359.4 mm
Depth	233.9 mm
Height	22.8 mm
Weight *	1.93 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	2

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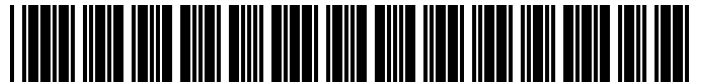
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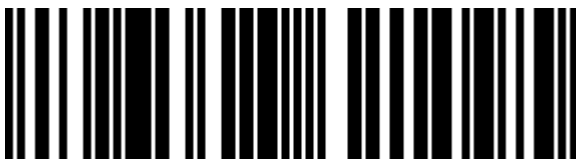
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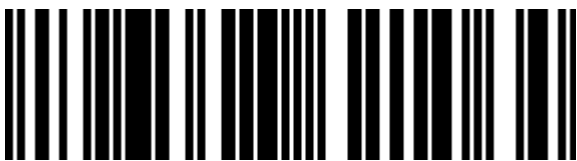
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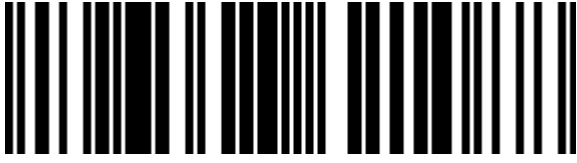
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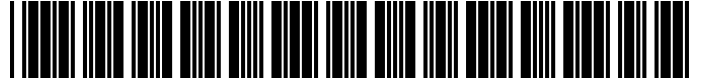
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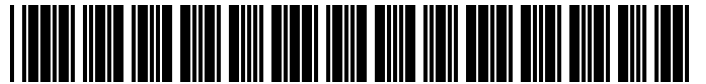
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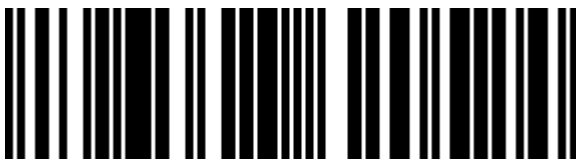
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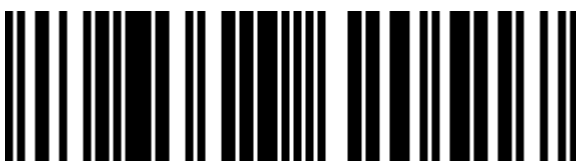
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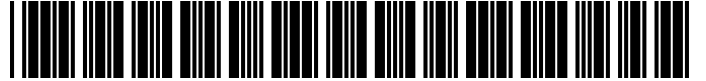
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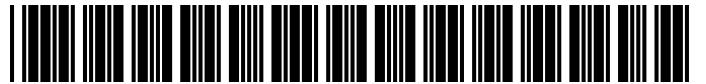
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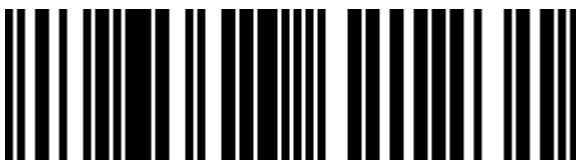
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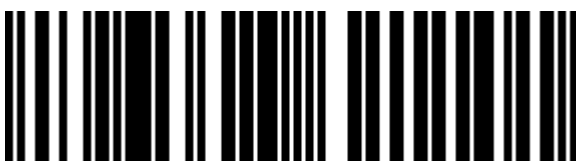
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