HP ZBook Studio 16 inch G9 Mobile Workstation PC (6W3K9PA)
Active as of 3/06/2022

Overview

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.

Pro-grade performance for your biggest projects

Push your 3D workflows further with an Intel®⬚ CPU, [1] integrated or discrete graphics [2] and upgraded memory.

See more of your content with less scrolling

Bring projects to life on a brilliant display and 16:10 aspect ratio so you can see more vertical content.

Create and collaborate on the go

Work from anywhere on a light laptop with up to a 12-hour battery life [5] and AI noise cancellation software. [6]

A work laptop you'll want to game on.

Specifications

Operating system
Windows 10 Pro (available through downgrade rights from Windows 11 Pro) [1,2] 1

Processor family
12th Generation Intel® Core™ i7 processor

Processor
Intel® Core™ i7-12700H (up to 4.7 GHz with Intel® Turbo Boost Technology, 24 MB L3 cache, 14 cores, 20 threads)

Management features
HP Power Manager

Sustainable impact specifications
Low Halogen

Security management
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

Memory
32 GB DDR5-4800 MHz RAM (2 x 16 GB)

Memory layout (slots & size)
2 x 16 GB

Memory Slots
2 SODIMM; supports dual channel

Internal Storage
512 GB PCIe® NVMe™ TLC SSD

Display
40.6 cm (16") diagonal, WUXGA (1920 x 1200), IPS, narrow bezel, anti-glare, 400 nits, 100% sRGB

Display size (diagonal)
40.6 cm (16")

I/O Port location
Left side

Ports
1 power connector; 1 headphone/microphone combo; 2 Thunderbolt™ 4 with USB4™ Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4, HP Sleep and Charge)

I/O Port location
Right side

Ports
1 Super Speed USB Type-A 5Gbps signaling rate (charging); 1 SuperSpeed USB Type-C® 10Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4)

Memory card device
1 microSD 7.1 media card reader

Wireless
Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.2 combo (supporting gigabit data rate)

Power
150 W Slim Smart external AC power adapter

Battery type
HP Long Life 6-cell, 86 Wh polymer

Ecolabels
TCO Certified

Energy star certified
ENERGY STAR® certified

Minimum dimensions (W x D x H)
35.6 x 24.2 x 1.9 cm (non-touch); 35.6 x 24.2 x 1.8 cm (touch)

Weight
Starting at 1.73 kg

UPC number
196786553479

Software included
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 [30]
[31]
[33]
[51]
[55]
[57]
[58] [1]

Keyboard
HP Premium Quiet Keyboard – spill-resistant, full-size, backlit keyboard with programmable key

Manufacturer Warranty
3 year (3/3/3) limited warranty includes 3 years of parts, labor and on-site repair. Terms and conditions vary by country. Certain restrictions and exclusions apply.

Overview

1 Multicore is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering, branding and/or naming is not a measurement of higher performance.

2 Optional feature that must be configured at purchase.

3 For hard drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30GB (for Windows 10) of system disk is reserved for system recovery software.

4 Recharges the battery up to 50% within 30 minutes when the system is off or in standby mode. Power adapter with a minimum capacity of 65 watts is required. After charging has reached 50% capacity, charging will return to normal. Charging time may vary +/-10% due to System tolerance.

5 Battery life will vary depending on the product model, configuration, loaded applications, features, use, wireless functionality and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See MobileMark 18 battery benchmark https://bapco.com/products/mobilemark-2018/ for additional details.

6 DNN Noise Reduction is delivered automatically through Windows update or can be downloaded from https://support.hp.com/us-en/drivers when available. Requires Windows 10 or higher, compatible with internal PC speakers, microphone and analog headsets. The DNN Noise Reduction setting can be configured through the Application HP Audio Control.

Specifications

1 Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows is automatically updated and enabled. High speed internet and Microsoft account required. ISP fees may apply and additional requirements may apply over time for updates. See http://www.windows.com.

2 This system is preinstalled with Windows 10 Pro software and also comes with a license for Windows 11 Pro software and provision for recovery software. You may only use one version of the Windows software at a time. Switching between versions will require you to uninstall one version and install the other version. You must back up all data (files, photos, etc.) before uninstalling and installing operating systems to avoid loss of your data.

30 HP ZCentral Remote Boost Sender does not come preinstalled on Z Workstations but can be downloaded and run on all Z desktop and laptops without license purchase through 2022. With non-Z sender devices, purchase of perpetual individual license or perpetual floating license per simultaneously executing versions and purchase of ZCentral Remote Boost Software Support is required. ZCentral Remote Boost Sender for non-Z Hardware requires a license and Windows 10, RHEL/CentOS (7 or 8), or UBUNTU 18.04 or 20.04 LTS operating systems. macOS (10.14 or newer) operating system and ThinPro 7.2 are only supported on the receiver side. Requires network access. The software is available for download at hp.com/ZCentralRemoteBoost .

31 Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming media players that also support Miracast. You can use Miracast to share what you're doing on your PC and present a slide show. For more information: http://windows.microsoft.com/en-us/windows-8/project-wireless-screen-miracast .

33 HP Connection Optimizer requires Windows 10.

51 HP Easy Clean requires Windows 10 RS3 and will disable the keyboard, touchscreen, and clickpad only. Ports are not disabled. See user guide for clean.

55 HP Quick Drop requires Internet access and Windows 10 PC preinstalled with HP QuickDrop app and either an Android device (phone or tablet) running Android 7 or higher with the Android HP QuickDrop app, and /or an iOS device (phone or tablet) running iOS 12 or higher with the iOS HP QuickDrop app.

57 Tile requires Windows 10. Some features require optional subscription to Tile Premium. Tile application for Windows 10 available for download from the Windows Store. Mobile phone app available for download from App Store and Google Play. Requires iOS 11 and greater or Android 6.0 and greater see https://support.thetileapp.com/hc/en-us/articles/200424778 for more information. HP Tile will function as long as the PC has battery power.

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