HP ZBook Studio 16 inch G9 Mobile Workstation PC

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.

HP recommends Windows 11 Pro for business

Power to push the limits
- Push your workflow further with up to an Intel® Core™ i9 CPU, NVIDIA RTX™ A5000 or NVIDIA® GeForce RTX™ 3080 Ti Laptop GPU, and 64 GB RAM. From 3D design to machine learning this pro-grade PC delivers lag-free performance so you can work uninterrupted.

Immerse in your work
- Unlock complete color accuracy and see more of your work with a 16:10 HP DreamColor display. Get smooth motion for video editing with a 120Hz refresh rate. Customize your keyboard lighting and highlight shortcuts with RGB per-key LED backlighting.

Create and collaborate everywhere
- Follow inspiration wherever it strikes with a thin and light laptop that delivers the power to run the software you need on the go. Work and collaborate effectively from anywhere with up to an TBD battery life, AI noise cancellation and Wi-Fi 6E.

A work laptop you’ll want to game on
- Work anywhere without compromising on performance or security with Windows 11 powered by HP’s collaboration and connectivity technology.
- Crank up your multi-tasking and productivity with up to Intel® Core™ vPro® CPU, designed to handle complex, multithreaded apps.
- Tackle your biggest projects with a choice of up to NVIDIA RTX™ A5000 or NVIDIA® GeForce RTX™ 3080 Ti Laptop GPU certified for pro apps.
- Keep cool under any workload with HP Vaporforce Thermals, with new curved metal blades, that protect your workstation from overheating, so you can cut through your heaviest workloads with peak processing power.
- Blitz through multiple tasks and ditch external drives with up to 4 TB PCIe Gen4 NVMe storage.
- Accelerate your workflow. Power through projects with up to 64 GB RAM for fast rendering, editing and visual effects performance.
- Get a fast and reliable connection in dense wireless environments with Wi-Fi 6E.
- Collaborate with confidence with advanced features like DNN Noise Suppression to suppress background noise for crisp, clear calls.
- Personalize your laptop RGB lighting in one place. With Z Light Space software, you can customize your keyboard lighting with the RGB per-key LED backlighting. For commonly used software apps, use pre-loaded color-maps or create your own.
- Elevate your workflow with a VR-ready laptop. Develop lifelike content and transform how you design, train, and collaborate. And when paired with the HP Reverb G2 VR Headset, you get stunning immersion with full-resolution rendering.
- Now with a 16:10 aspect ratio you get 11% more usable screen area than 16:9, for productivity and creative tasks. With more vertical screen space reduce the need to scroll and see more of your project without minimizing program menus or toolbars.
- Connect to everything you need with a wide-range of connectivity options: multiple USB Type-C® ports, mSD Card Reader, headphone/microphone combo jack and more.
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HP Wolf Pro Security Edition
Audio by Bang & Olufsen,
Starting at 1.73 kg
2 SODIMM; supports dual channel
HP Smart Support
256 GB
40.6 cm (16")
12th Generation Intel® Core™ i7 processor; 12th Generation Intel® Core™ i9 processor
Integrated: HP Slim Smart 150 W External AC power adapter; HP Slim Smart 200 W External AC power adapter
EPEAT® Gold registered in the U.S.
Low Halogen

Available Operating Systems
Windows 11 Pro – HP recommends Windows 11 Pro
Windows 11 Home – HP recommends Windows 11 Pro for Business
Windows 10 Pro (available through downgrade rights from Windows 11 Pro)
Ubuntu 20.04
FreeDOS 3.0

Processor family
12th Generation Intel® Core™ i7 processor; 12th Generation Intel® Core™ i9 processor
Available Processors
Intel® Core™ i7-12700H with Intel® UHD Graphics (2.7 GHz base frequency, up to 4.7 GHz with Intel® Turbo Boost Technology, 24 MB L3 cache, 14 cores, 20 threads); Intel® Core™ i7-12800H with Intel® UHD Graphics (2.4 GHz base frequency, up to 4.8 GHz with Intel® Turbo Boost Technology, 24 MB L3 cache, 14 cores, 20 threads), supports Intel® vPro® Technology; Intel® Core™ i9-12900H with Intel® UHD Graphics (2.5 GHz base frequency, up to 5.0 GHz with Intel® Turbo Boost Technology, 24 MB L3 cache, 14 cores, 20 threads), supports Intel® vPro® Technology; Intel® Core™ i9-12900HK with Intel® UHD Graphics (2.5 GHz base frequency, up to 5.0 GHz with Intel® Turbo Boost Technology, 24 MB L3 cache, 14 cores, 20 threads)

Maximum memory
64 GB DDR5-4800 non-ECC SODIMM
Memory slots
2 SODIMM; supports dual channel
Internal storage
256 GB up to 4 TB PCIe® Gen4 x4 NVMe™ M.2 SSD

Display (diagonal, metric)
40.6 cm (16")

Display
40.6 cm (16") diagonal, 4K WQXGA (3840 x 2400), 120 Hz, IPS, anti-glare, 500 nits, 100% DCI-P3, HP DreamColor; 40.6 cm (16") diagonal, 4K QWXGA (3840 x 2400), 60Hz, multouch-enabled, UWVA, BrightView, Corning® Gorilla® Glass 5, Low Blue Light, 600 nits, 100% DCI-P3; 40.6 cm (16") diagonal, WUXGA (1920 x 1200), IPS, anti-glare, 1000 nits, 72% NTSC, HP Sure View Reflect integrated privacy screen; 40.6 cm (16") diagonal, WUXGA (1920 x 1200), IPS, narrow bezel anti-glare, Low Blue Light, 400 nits, low power, 100% sRGB

Available Graphics
Integrated: Intel® Iris® Xe Graphics
Audio
Audio by Bang & Olufsen, Quad-speaker audio (2 tweeters & 2 Quad woofers), 2 Top Facing Microphone dual array digital microphones, functions keys for volume up and down, combo microphone/Headphone jack, HD audio with 200kHz Bass Roll off

Ports and Connectors
Left side: 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)11; Right side: 1 Super Speed USB Type-A 5Gbps signaling rate (charging); 1 Ultra High Speed USB Type-C® 10Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4)12

Input devices
HP Premium Quiet Keyboard – spill-resistant, full-size, backlight keyboard with drain and Duratek; HP RGB Keyboard – Full-size, per-key RGB backlight keyboard; HP RGB Z Command Keyboard – spill-resistant, full-size, backlight keyboard with drain and Duratek; Clickpad with image sensor, supporting multi-touch gestures and taps;
Communications
WLAN: Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.2 M.2 combo, vPro®; Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.2 M.2 combo, non-vPro®

Camera
720p HD IR camera

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 Central Remote Boot 2020 Software for 2 workstation; Tile® Application; Windows 10 Cloud Recovery Client; 1-month Adobe® free trial offer; HP ZCentral Remote Boost 2020 Software for Z workstation; Tile™ Application; Windows 10 Cloud Recovery Client; 1-month Adobe® free trial offer; HP ZCentral Remote Boost 2020 Software for Z workstation; Tile™ Application; Windows 10 Cloud Recovery Client; 1-month Adobe® free trial offer; HP ZCentral Remote Boost 2020 Software for Z workstation; Tile™ Application; Windows 10 Cloud Recovery Client; 1-month Adobe® free trial offer;

Available software
HP Smart Support

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

Security Software Licenses
HP Wolf Pro Security Edition
Fingerprint reader
Fingerprint sensor (select models)
Management features
HP Power Manager
Power
HP Slim Smart 150 W External AC power adapter; HP Slim Smart 200 W External AC power adapter
Battery type
HP Long Life 6-cell, 86 Wh polymer
Dimensions
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 (Weight varies by configuration and components)
EcoLabels
EPEAT® Gold registered in the U.S.
Sustainable impact specifications
Low Halogen
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Accessories and services (not included)

**HP E24mv G4 FHD Conferencing Monitor**

Make a great impression on video calls on this 23.8-inch full HD conferencing monitor. The integrated 5MP tilt-adjustable pop-up webcam displays sharp, detailed picture – even in low light – and the built-in speakers and mic produce clear, life-like sound. Everything you need to present your best self on every call.

Product number: 169L0AA

**HP Nano Keyed Cable Lock**

Lock your notebook or tablet down in the office and high-traffic public areas by tethering it to a secure surface with the thin profile HP Nano Keyed Cable Lock.

Product number: 1AJ39AA

**HP Prelude Pro 15.6-inch Recycled Top Load**

Commute with a stylish and durable top load thoughtfully designed with the environment in mind and made with recycled fabric. The HP Prelude Pro Recycled Top load comes with safety features for your peace of mind when you carry your devices from work to home and beyond.

Product number: 1X645AA

**HP Thunderbolt Dock G2 Combo Cable**

Use this cable as a replacement or backup for your original semi-captive 230W HP Thunderbolt Dock G2 combo cable.

Product number: 3X896AA

**HP Wired Desktop 320MK Mouse and Keyboard**

Work efficiently and enhance your everyday productivity with the reliable HP Wired Desktop 320MK Mouse and Keyboard.

Product number: 9SR36AA
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