

HP ZBook Studio 16 inch G10 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.

Power to push the limits

Push your workflow further with up to an Intel® Core™ i9 vPro CPU,^{1,9} NVIDIA RTX™ Ada Laptop GPU or GeForce RTX™ GPU,² and 64 GB RAM.²⁰ From 3D design to machine learning this pro grade PC delivers peak performance so you can work uninterrupted.

Immerse in your work

Get complete color accuracy and a 120Hz refresh rate with a 16:10 HP DreamColor display² or choose an OLED display for absolute blacks and extreme whites.² Customize your keyboard lighting and highlight shortcuts with RGB per-key LED backlighting.³

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 with a long-lasting battery, AI Noise Suppression⁵ and Wi-Fi 6E.⁶

A work laptop you'll want to game on

Enjoy fast, smooth gameplay with an NVIDIA RTX™ professional or GeForce RTX™ GPU.² Highlight favorite keys and create custom key maps with Z Light Space software⁷ and a RGB keyboard with per-key LED backlighting.⁸



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Windows 11

Work without compromising on performance with Windows 11⁸ combined with HP's collaboration and security technology.²⁴

Intel® Core™ Processor

Crank up your multi-tasking and productivity with up to Intel vPro® with 13th Gen Intel® Core™ i9 processor,^{1,2,9} designed to handle complex, multithreaded apps.

NVIDIA® Graphics

With up to NVIDIA RTX™ 4000 Ada Laptop GPU or GeForce RTX™ 4080 Laptop GPU, accelerate rendering, graphics, and compute workflows to unlock new levels of productivity.²

Lightning-Fast Storage

Blitz through multiple tasks and ditch external drives with up to 4 TB PCIe Gen4 NVMe storage^{10,11}

Large Memory Configurations

Accelerate your workflow. Power through projects with up to 64 GB RAM¹² for fast rendering, editing, and visual effects performance.

HP DreamColor Display

Have confidence in what you see on screen with an optional HP DreamColor Display with 100% DCI-P3 color gamut and a 120Hz refresh rate you get smooth motion for high-speed videos.^{2,21}

Z Command Keyboard

Used to working on a Mac? Now you can choose the Z Command Keyboard, which replicates a Mac layout, for a seamless switch.¹³

Z Light Space

With Z Light Space software,⁷ customize your keyboard lighting with the RGB per-key LED backlighting.⁸ For commonly used software apps, like Adobe Photoshop, AutoCAD or SOLIDWORKS,¹⁴ use pre-loaded color-maps or create your own.

Easy Battery Management

Manage and monitor your battery's performance and condition and customize charging options with the easy-to-use HP Power Manager dashboard.²³

HP Vaporforce Thermals

Keep cool under any workload with HP Vaporforce Thermals,¹⁶ with curved metal blades, that protect your workstation from overheating, so you can cut through your heaviest workloads with peak processing power.

HP 16:10 Aspect Ratio

The 16:10 aspect ratio reduces the need to scroll by showing 11% more vertical content than a 16:9 aspect ratio display. See more of your project without minimizing program menus or toolbars.

HP Context Aware

HP Context Aware provides AI based optimization to maximize performance when you're working at a table, comfort when you're working from your lap, and responsiveness when you're working on the go.¹⁷



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Specifications Table

Available Operating Systems	Windows 11 Pro – HP recommends Windows 11 Pro ¹ Windows 11 Home – HP recommends Windows 11 Pro for Business ¹ Windows 11 Pro (preinstalled with Windows 10 Pro Downgrade) ^{1,2} Ubuntu 22.04 LTS FreeDOS 3.0
Processor family^{2,3,4,5,6,9}	13th Generation Intel® Core™ i9 processor; 13th Generation Intel® Core™ i7 processor; 13th Generation Intel® Core™ i5 processor
Available Processors^{2,3,4,5,6,9}	Intel® Core™ i9-13900H (1.9 GHz E-core base frequency, 2.6 GHz P-core base frequency, up to 4.1 GHz E-core Max Turbo frequency, up to 5.4 GHz P-core Max Turbo frequency, 24 L3 MB cache, 6 P-cores and 8 E-cores, 20 threads), supports Intel® vPro® Technology Intel® Core™ i7-13800H (1.8 GHz E-core base frequency, 2.5 GHz P-core base frequency, up to 4.0 GHz E-core Max Turbo frequency, up to 5.2 GHz P-core Max Turbo frequency, 24 MB L3 cache, 6 P-cores and 8 E-cores, 20 threads), supports Intel® vPro® Technology Intel® Core™ i7-13700H (1.8 GHz E-core base frequency, 2.4 GHz P-core base frequency, up to 3.7 GHz E-core Max Turbo frequency, up to 5.0 GHz P-core Max Turbo frequency, 24 MB L3 cache, 6 P-cores and 8 E-cores, 20 threads) Intel® Core™ i5-13600H (3.6 GHz E-core Max Turbo frequency, up to 4.8 GHz P-core Max Turbo frequency, 18 MB L3 cache, 4 P-cores and 8 E-cores, 16 threads), supports Intel® vPro® Technology
Maximum memory	64 GB DDR5-4800 non-ECC SODIMM; 64 GB DDR5-5600 non-ECC SODIMM ¹¹ Memory is SODIMM. Supports dual channel memory.
Memory slots	2 SODIMM; supports dual channel
Internal storage	512 GB up to 4 TB PCIe® Gen4 x4 NVMe™ M.2 SSD ¹⁰ 512 GB up to 1 TB PCIe® NVMe™ M.2 SED SSD ¹⁰
Maximum storage capacity	Up to 4 TB
Display size (diagonal)	16"
Display size (diagonal, metric)	40.6 cm (16")
Display	16" diagonal, WQUXGA (3840 x 2400), OLED, touch, BrightView, eDP + PSR, micro-edge, Low Blue Light, 400 nits, 100% DCI-P3; 16" diagonal, WQUXGA (3840 x 2400), 120 Hz, IPS, anti-glare, eDP + PSR, micro-edge, 500 nits, 100% DCI-P3, HP DreamColor; 16" diagonal, WUXGA (1920 x 1200), IPS, anti-glare, eDP + PSR, micro-edge, 400 nits, 100% sRGB ^{15,16,27,29} 40.6 cm (16") diagonal, WQUXGA (3840 x 2400), OLED, touch, BrightView, eDP + PSR, micro-edge, Low Blue Light, 400 nits, 100% DCI-P3; 40.6 cm (16") diagonal, WQUXGA (3840 x 2400), 120 Hz, IPS, anti-glare, eDP + PSR, micro-edge, 500 nits, 100% DCI-P3, HP DreamColor; 40.6 cm (16") diagonal, WUXGA (1920 x 1200), IPS, anti-glare, eDP + PSR, micro-edge, 400 nits, 100% sRGB ^{15,16,27,29}
Available Graphics	Integrated: Intel® Iris® Xe Graphics ^{18,20,22} Discrete: NVIDIA® GeForce RTX™ 4080 (12 GB GDDR6X dedicated) NVIDIA® GeForce RTX™ 4070 Laptop GPU (8 GB GDDR6 dedicated) NVIDIA RTX™ 4000 Ada Generation Laptop GPU (12 GB GDDR6 dedicated) NVIDIA RTX™ 3000 Ada Generation Laptop GPU (8 GB GDDR6 dedicated) NVIDIA RTX™ 2000 Ada Generation Laptop GPU (8 GB GDDR6 dedicated) NVIDIA RTX™ A1000 Laptop GPU (6 GB GDDR6 dedicated) ^{12,18,22,32}
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 200Hz Bass Roll off
Memory card device ⁵⁹	1 microSD 7.1 media card reader
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) ¹² ; Right side: 1 Super Speed USB Type-A 5Gbps signaling rate (charging); 1 SuperSpeed USB Type-C® 10Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4) ¹²



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Keyboard	HP Premium Quiet Keyboard – spill-resistant, full-size, backlit keyboard with drain and DuraKeys; HP RGB Keyboard - Full-size, per-key RGB backlit keyboard; HP RGB Z Command Keyboard – spill-resistant, full-size, backlit keyboard with drain and DuraKeys ²⁴
Mouse	Clickpad with image sensor, supporting multi-touch gestures and taps
Communications	WLAN: Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card, vPro®; Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card, non-vPro® ¹⁴ ;
Camera	720p HD IR camera ^{16,17}
Software ^{21,25,28,30,31,33,51,52}	Bing search for IE11 HP Hotkey Support HP Noise Cancellation Software HP Performance Advisor HP Support Assistant Native Miracast support HP Connection Optimizer myHP HP Privacy Settings Data Science Stack HP Easy Clean HP PC Hardware Diagnostics Windows 10 Cloud Recovery Client HP Z Light Space HP Camera & Super Resolution Software HP Services Scan Microsoft 365 and Office (sold separately and Internet access required for activation) HP Presence
Available software	HP Smart Support ¹⁹
Security management ^{8,34,35,37,38,39,43,49}	Absolute persistence module HP Credential Manager HP Power On Authentication 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 Nano Security Lock Slot HP Image Assistant Gen4.6 HP Client Security Manager Gen7 Trusted Platform Module TPM 2.0 HP Privacy Key HP Tamper Lock (select models)
Security Software Licenses	HP Wolf Pro Security Edition ⁵⁶
Fingerprint reader	Fingerprint sensor (select models)
Management features	HP Power Manager ¹³
Power	HP Slim Smart 150 W External AC power adapter; HP Slim Smart 200 W External AC power adapter ⁴⁸
Battery type	HP Long Life 6-cell, 86 Wh Li-ion polymer ^{26,47}
Battery recharge time	Supports battery fast charge: approximately 50% in 30 minutes
Dimensions	14.02 x 9.54 x 0.76 in (non-touch); 14.02 x 9.54 x 0.72 in (touch); 35.6 x 24.2 x 1.9 cm (non-touch); 35.6 x 24.2 x 1.8 cm (touch); 21.73 x 2.71 x 13.58 in 552 x 69 x 345 mm (Package)
Weight	Starting at 3.81 lb; Starting at 1.73 kg; (Weight varies by configuration and components.)
Ecolabels	EPEAT® Gold registered in the U.S. ⁴⁵
Sustainable impact specifications	Low Halogen ⁴⁶

