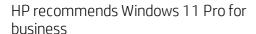
HP ZBook Firefly 16 inch G9 Mobile Workstation PC



Step up performance. Not size.

Pro-level performance combines with true mobility in this amazingly sleek and powerful laptop. Stay productive wherever you're working with prograde graphics and processor, Alenhancing webcam and audio, and a color-accurate display—everything you need to collaborate and manage projects anywhere.





*Product image may differ from actual product

Upgrade to pro-level performance

Say goodbye to lags and crashes with faster responsiveness on projects. With up to Intel[®] Core™ i7 processors, ¹ NVIDIA[®] T550 Laptop GPU² and up to 64GB of memory, ³ open large files and run pro apps simultaneously for speedy multitasking and productivity.

Work all day. Anywhere.

• Starting at 3.97 lbs, 4 our most mobile ZBook is made to move. With up to 13-hours of battery life, 5 the sleek yet durable device is small enough to fit in your bag so you can stay productive anywhere. This is high performance workstation power on the go.

Connect. Communicate. Collaborate.

Collaborate effectively wherever you go with ZBook Firefly. The Al enhanced auto-framing 5MP camera,⁶ discrete audio amps to block background noises and next-gen Wi-Fi 6E^{7,8} or 5G⁹ options let you connect from any location with a more personal experience.

Immerse in your work

- The more you can see, the more you can do. The 16:10 aspect ratio shows more vertical content so you can see more of your programs. Comfortably work longer with the FHD low blue light display² that has no impact on color accuracy.
- Work anywhere without compromising on performance or security with Windows 11¹⁰ powered by HP's collaboration and connectivity technology.
- Move around a little without losing viewers' attention during video calls with HP Auto Frame.¹¹ The
 camera and audio follow you or multiple presenters as they move within the camera's frame.
- Collaborate with confidence with advanced features like DNN Noise Suppression to suppress background noise for crisp, clear calls.
- $\bullet \quad \text{Blitz through multiple tasks and ditch external drives with up to 2 TB local NVMe storage} \\ ^{12,13}$
- Power through projects with up to 64 GB RAM¹⁴ for fast editing and design.
- Power through projects with up to NVIDIA® T550 Laptop GPU,² certified for pro-apps.
- Bring your ideas to live quickly and effectively with a 12th gen Intel[®] Core[™] processor.
- Get a fast and reliable connection in dense wireless environments with Wi-Fi 6E.⁸
- Connect almost anywhere with the ZBook Firefly with optional support for up to 5G wireless broadband technology with 4x4 antennas that can deliver fast download and upload speeds.⁹
- The more you can see, the more you can do. The 16:10 aspect ratio reduces the need to scroll by showing more vertical content than a 16:9 display. Now you can see more of your programs and apps you use every day.
- Eliminate the need to send yourself emails to move information between your devices. With the HP
 QuickDrop app, you can wirelessly transfer documents, photos, videos, and more between devices. 16
- Help protect our shared future with PCs that drive towards increasing sustainability.

HP ZBook Firefly 16 inch G9 Mobile Workstation PC Specifications Table



Warranty





*Product image may differ from actual product	
Available Operating Systems	Windows 11 Pro ¹ Windows 11 Pro Education ¹ Windows 11 Home – HP recommends Windows 11 Pro for Business ¹ Windows 11 Home – HP recommends Windows 11 Pro for Business ¹ Windows 11 Home Single Language – HP recommends Windows 11 Pro for Business ¹ Windows 11 Pro (Windows 11 Enterprise available with a Volume Licensing Agreement) ¹ Windows 11 Pro (preinstalled with Windows 10 Pro Downgrade) ^{1,2} FreeDOS ⁴⁹
Processor family ^{3,4,5,6}	12th Generation Intel®Core™i7 processor; 12th Generation Intel®Core™i5 processor
AvailableProcessors ^{3,4,5,6}	Intel®Core™17-1260P (1.5 GHzE-corebase frequency, 2.1 GHz P-corebase frequency, up to 3.4 GHzE-core Max Turbo frequency, up to 4.7 GHz P-coreMax Turbo frequency, 18 MB L3 cache, 4 P-cores and 8 E-cores, 16 threads); httel®Core™5-1250P (1.2 GHzE-corebase frequency, 1.7 GHz P-corebase frequency, up to 3.3 GHzE-core Max Turbo frequency, up to 4.4 GHz P-coreMax Turbo frequency, 12 MB L3 cache, 4 P-cores and 8 E-cores, 13 GHzE-corebase frequency, up to 3.5 GHzE-corebase frequency, up to 3.5 GHzE-coreMax Turbo frequency, 12 MB L3 cache, 4 P-cores and 8 E-cores, 16 threads); httel®Core™7-1255U (1.2 GHzE-corebase frequency, 1.7 GHz P-corebase frequency, 1.7 GHz P-corebase frequency, up to 3.5 GHzE-corebase frequency, 1.3 GHzP-corebase frequency, 1.3 GHzP-corebase frequency, 1.3 GHzE-corebase frequency, 1.3 GHzE-corebase frequency, 1.3 GHzE-corebase frequency, 1.3 GHzP-corebase fre
Chipset	Intel®Integrated SoC
Maximum memory	64 GB DDR5-4800 non-ECC SDRAM ^{8,35}
Memoryslots	2 SODIMM; supports dual channel
Internal storage	256 GB up to 2 TB PCle® Gen4 x4 NVMe™ M.2 2280 TLC SSD ⁷ 256 GB up to 512 GB PCle® Gen4 x4 NVMe™ M.2 2280 TLC SED 0PAL 2 SSD ⁷
Display size (diagonal, metric)	40.6 cm (16")
Display	40.6 cm (16") diagonal, WUXGA (1920×1200), IPS, anti-glare, 250 nits, 45% NTSC; 40.6 cm (16") diagonal, WUXGA (1920×1200), touch, IPS, anti-glare, 250 nits, 45% NTSC; 40.6 cm (16") diagonal, WUXGA (1920×1200), IPS, anti-glare, 1000 nits, 100% sRGB, HP Sure View Reflect integrated privacy screen 11.33.36.37
Available Graphics	Integrated: Intel® irs® X° Graphics ^{27,28,32} Discrete: NIDIA® 1550 Laptop GPU (4 GB GDDR6 dedicated) ^{12,32} (Intel® irs® Xe Graphics capabilities require system to be configured with Intel® Core™ i5 or i7 processors and dual channel memory. Intel® irs® Xe Graphics with Intel® Core™ i5 or 7 processors and single channel memory will only function as UHD graphics.)
Audio	Audio by Bang & Olufsen, dual stereo speakers, HP World Facing Microphone dual array digital microphones, functions keys for volume up and down, combo microphone/headphone jack, HD audio
Memory card device	1 smart card reader (select models)
Ports and Connectors	Left side: 1 SuperSpeed USB Type-A 5Gbps signaling rate (charging); 1 HDMI2.0b; 2 Thunderbolt™ 4 with USB4™ Type-C®40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4, HP Sleep and Charge); Right side: 1 headphone/microphonecombo; 1 SuperSpeed USB Type-A 5Gbps signaling rate
Input devices	HP Premium Quiet Keyboard – spill-resistant, full-size, with numeric keypad and DuraKeys; HP Premium Quiet Keyboard – spill-resistant, full-size, optional backlit keyboard with numeric keypad and DuraKeys; Clickpad with multi-touch gesture support, taps enabled as default; Microsoft Precision Touchpad with gesture support;
Communications	WLAN: httel®Wi-Fi6E AX211 (2x2) and Bluetooth®5.3 wireless card, vPro®; httel®Wi-Fi6E AX211 (2x2) and Bluetooth®5.3 wireless card, non-vPro®³; WWAN: httel®XMM™7560 LTE Advanced Pro Cat 16; httel®5G Solution 5000 10.47; Optional Near Field Communication (NFC) module
Camera	5MP Camera ^{13,14}
Software	Bing search for E11; Buy Office; CyberLink Power Media Player; HP Hotkey Support; HP Noise Cancellation Software; HP Performance Advisor; HP Recovery Manager; HP Support Assistant; Native Miracast support; HP Connection Optimizer; HP ZCentral Remote Boost Software; myHP; HP PC Hardware Diagnostics UEF; HP PC Hardware Diagnostics Windows; HP Privacy Settings; HP Programmable Key; HP Quick Drop; HP Touch point Customizer; HP Work Well; Tile TM App (optional); 18.1921.22.23.26.39.55
Security management	HP Sure Click; HP Secure Erase; HP Manageability Integration Kit; HP Sure Sense; HP BIOSphere Gen6; HP Sure Start Gen6; HP Sure Admin; HP Sure View Reflect; MS Bitlocker Encryption; Nano Security Lock Slot; HP Image Assistant Gen4.6; HP Proactive Security (Daa5); HP TPM Configuration Utility; HP Sure Run Gen4; HP Client Security Manager Gen7; HP Sure Recover Gen4 with Embedded Reinaging; Secured-core PC capable; TPM 2.0 Embedded Security Chip; Infineon SLB9670; Camera privacy shutter; HP Tamper Lock (select models) 18.24.25.2931.32.33.34.38.40.42.43.44.45
Fingerprint reader	Fingerprint reader (select models)
Management features	HP Power Manager ²⁰
Power	HPSmart110 W External AC USB Type-C®power adapter; HPSmart65 W External AC USB Type-C®power adapter
Battery type	HP Long Life 3-cell, 51 Wh Li-ion polymer; HP Long Life6-cell, 76 Wh Li-ion polymer ¹⁰
Batterylife	3-cell, 51 Wh Li-ion: up to 12 hours (integrated graphics); 3-cell, 51 Wh Li-ion: up to 10 hours (discrete graphics); 6-cell, 76 Wh Li-ion: up to 18 hours (integrated graphics); 6-cell, 76 Wh Li-ion: up to 14 hours and 30 minutes (discrete graphics) ¹⁵
Battery recharge time	Supports battery fast charge: approximately 50% in 30 minutes
Dimensions	35.87 x25.09 x1.99 cm
Weight	Starting at 1.8 kg; (Weight varies by configuration and components.)
Ecolabels	EPEAT®registered configurations available ¹⁶
Energy star certified (series fixed)	ENERGY STAR® certified
Sustainable impact specifications	Ocean-bound plastic in speaker enclosure; 40% post-consumer recycled plastic; External power supply 90% efficiency; Low Halogen; Bulk packaging available; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable in the constant of
Warranty	2 upar (2-2-0) limited warranty and conject offering includes 2 upars of parts and labor. Torms and conditions vary by country. Cortain restrictions and evaluations apply

 $3\,year (3-3-0) \,limited \,warranty \,and \,service \,of fering \,includes \,3\,years \,of \,parts \,and \,labor. \,Terms \,and \,conditions \,vary \,by \,country. \,Certain \,restrictions \,and \,exclusions \,apply.$

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Accessories and services (not included)

HP 935 Creator Wireless Mouse



Experience seamless and uninterrupted creativity with a mouse that is crafted to create. Be at your creative best with programmable buttons, ergonomic design, and battery life that lasts up to 12 weeks¹. Enhance your creative process by pairing with up to 3 devices and enjoy the freedom to work on any surface with track-on-glass sensor.

Product number: 1D0K8AA

- Actual battery life will vary with use and environmental conditions, and will naturally decrease with time and usage.
- Enabled by HP Accessory Center Software. HP Accessory Center software available for free download in Microsoft Store or Apple Store.

HP Prelude Pro 15.6-inch Recycled Backpack



Commute with a stylish and durable backpack thoughtfully designed with the environment in mind and made with recycled fabric¹. The HP Prelude Pro Recycled Backpack comes with safety features for your peace of mind when you carry your devices from work to home and beyond.

Product number: 1X644AA

- Backpack external surface made of 95% recycled fabric.
- ² Power bank sold separately.

HP Stereo USB Headset G2



Plug right in and get ready to speak and hear clearly all day. With noise-cancelling, comfortable design, and easy adjustment, your sound comfort will carry you from call to call without interference or frustration.

Product number: 428K6AA

- ¹ Google tested to meet Chromebook compatibility standards.
 ² This product works with devices capable of running the latest version of Chrome OS and has been certified to meet Google's compatibility standards. Google is not responsible for the operation of this product or its compliance with safety requirements. Chromebook and the Works With Chromebook badge are trademarks of Google LLC.

HP USB-C Travel Hub G2



Easily expand your laptop's connectivity when working on the go with HP USB-C Travel Hub G2. Add an extra display and your accessories, charge your laptop and phone—all with one USB-C™ cable connection

Product number: 7PJ38AA

- [1[] Supports multi-function USB-C™ (video, charging, and USB 3.1) and USB Type-C™ Thunderbolt-enabled ports.
- Supports a single display up to 4960 x 2160 @30Hz (2 lane DP only via HDMI) or 1920 x 1200 @ 60Hz via VGA.

HP ZBook Firefly 16 inch G9 Mobile Workstation PC

Messaging Footnotes

- 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 broading is not a measurement of higher performance. Optional, configurable feature that must be configured at purchase.

 ² Optional, configurable feature that must be configured at purchase.

 ³ Up to 64GB memory is an optional feature that must be configured at purchase.

- Up to 64GB memory is an optional feature that must be configured at purchase.

 Lowest weight. Weight will vary open offunction of 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 Mobile Mark 18 battery benchmark https://bapco.com/products/mobilemark-2018/for additional details

 Optional feature that must be configured at purchase.

 Wi-FiGE is an optional feature that must be configured at purchase.

 Wi-FiGE requires a Wi-FiGE route; sold separately, to function in the 6GHz band. Availability of public wireless access points limited. Wi-FiGE is backwards compatible with prior 802.11 specs. And available in countries where Wi-FiGE is supported.

 Significant of the details of the

- Up to 6406 memory is an optional feature that must be configured at purchase

 16 Requires hternet access and Windows 10 or higher 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 Ør an iOS device (phone or tablet) running iOS
 12 or higher with the iOS HP QuickDrop app.

 17 or higher with the group app.

 18 or a require optional subscription to Tile™ Premium. Ring feature not supported. Tile™ application for Windows 10 and 11 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&n-us/articles/200424778External link icon for more information. Tile™ will function as long as the PC has battery power.

Technical Specifications Footnotes

- Not all features are available in all editions or versions of Windows. Systems may require upgraded and bree parately 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. EP 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 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 version uninstall one version. You must back up all data files, photos, etc.) before uninstalling and installing operating systems to avoid loss of your data.

 3 Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.

 4 hot MST when Processor is provided and provided in a provided processor will run at lower speeds in battery optimization mode.
- ⁴ Intel®Turbo Boost performance varies depending on hardware, software and overall system configuration. See www.intel.com/technology/turboboost for m 5 In accordance with Microsoft's support policy, HP does not support the Windows 8 or Windows 7 operating system on products configured with Intel and AMD 7 th generation and forward processors or provide any Windows 8 or Windows 7 drivers on
- http://www.support.hp.com
- **Tweetings of the standard of the standard specific and the standard
- network in frastructure is required
- 9 Wi-Fi6E requires a Wi-Fi6E route, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi6E is backwards compatible with prior 802, 11 specs. And available in countries where Wi-Fi6E is supported "Wi-Hibb requires aWi-Hibb route; sold separately, to function in the 6bHz band. Availability or public wireless access points limited. Wi-Hibb is backwards compatible with prior 802.11 specs. And available in countries where Wi-Hibb is supported.

 "I WMANKs and optional feature and requires affective factory configuration and separately purchased service contract. Check with service provider for coverage and availability in your area. Connection speeds will vary due to location, environment, network conditions, and other factors. 4GLTE not available on all products, and in all regions.

 "I UHD content required to view UHD images.

 "Be but UMA & Boscrete configuration is support 3 independent displays when on the HP UtraSlim Dock (Sold separately) - Max. resolution = 2.5K @60Hz (DP1) & 2.5K @60Hz (DP2) & FHD (VGA), and support 3 independent displays when on the HP Thunderbolt Dock (Sold separately) - Max. resolution = 2.5K @60Hz (DP1) & 2.5K @60Hz (

- 3 HD content required to view HD images.
- 14 Windows Hello face authentication utilizes a camera specially configured for near infrared (IR) imaging to authenticate and unlock Windows devices as well as unlock your Microsoft Passport

- 14 Windows Hello face authentication utilizes a camera specially configured for near infrared (R) imaging to authenticate and unlock Windows devices as well as unlock your Microsoft Passport.

 19 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 benchmark https://baptoc.com/products/mobilemark-2014/for additional details.

 19 EPEAT**ergistered where applicable. EPEAT registration varies by country. See www. epeat.net for registration status by country. Search keyword generator on HP's 3rd party option store for solar generator accessories at www. hp. com/go.bptions.

 18 HP Support Assistant Requires Windows and Internet Access.

 18 HP Support Assistant Requires Windows and Internet Access.

 19 HP Z Central Remote Boost does not come preinstalled on 2 Workstations but can be downloaded and run on all 2 desktop and laptops without license purchase. With non-Z sender devices, purchase of perpetual individual license or preins with non-Z sender devices, purchase of perpetual individual license or preins without purchase of the prevention of the prevention

- Fig. 19 Channels (and the same and the same

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