HP ZBook Firefly 15.6 inch G8 Mobile Workstation PC

ZBook performance, more mobile than ever

Our lightest 15" ZBook provides true mobility for people who push the typical business PC past its breaking point. In the office or in the field, with pro-level performance and a full-size numeric keypad, you have everything to review work and manage projects from anywhere.

Manage it on the move

Starting at just 3.78 lbs[1] our most mobile 15" ZBook is made to move. With 3X faster Wi-Fi®[2], gigabit-class 5G[3] and better battery life[4], you're equipped for days offsite. HP SureView Reflect privacy screen guards private information from prying eyes.[5]

Pro-level performance. To go.

Say goodbye to slowdowns and power through projects and heavy workloads with the 11th Intel® Core™ processors and NVIDIA® T500 graphics, certified for pro apps. Open large files and run apps simultaneously for speedy multitasking and productivity.

Upgrade to a modern viewing experience

Enjoy beautiful visuals even in direct light with a super-bright 400 nit 4K UHD display[6]. Images are more detailed and require less panning and zooming[7]. All this in a modern, slim-bezel design that maximizes your viewing area.

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Additional Features

Windows 11
Work anywhere without compromising on performance or security with Windows 11 powered by HP's collaboration and connectivity technology.

NVIDIA® Graphics
Open large files and run apps simultaneously for speedy multitasking and productivity with the NVIDIA® T500 graphics with 4GB of video memory.

Intel® Core™ Processors
Bring your ideas to life quickly and effectively with the latest 11th gen quad-core Intel® Core™ processors with up to 4.7 GHz of acceleration when you need it most.[8]

Software certification
Strenuously tested to meet ISV certification and deliver superb performance and support with leading software providers, including Autodesk.[11]

Industry-Leading Security
Have confidence with the HP's most secure mobile workstations. Instantly protect against visual hacking with HP Sure View Reflect, and defend against firmware and malware attacks with HP Sure Start, HP Sure Sense, and HP Tamper Lock intrusion detection sensor.[5,13,14]

Sustainability
Built with the environment in mind, this ZBook includes recycled ocean-bound plastics, recycled aluminum, plastic-free packaging, and ultra-efficient power consumption.[15]

Re-Designed Keyboard
The keyboard has been re-imagined with rubber domes, an ambient light-sensing backlight and a quiet clickpad for a more comfortable, intuitive, and quiet experience.

MIL-STD 810H Testing
Designed for ultimate durability, this ZBook undergoes 19 brutal MIL-STD 810H tests to help ensure this PC keeps rolling through your workday.[16]

HP Thunderbolt Dock
Plug in to greater connectivity at your desktop with the HP Thunderbolt Dock for lightning-fast Thunderbolt™ 4 transfers and the flexibility to run up to two external 4K displays.[17,18,19]

Clamshell Hinges
170 degree clamshell hinges lay almost flat, for easy collaboration and comfortable viewing at every angle.

5G
No need to risk riding someone else's network when you have your own. Optional 5G leverages the SIM card from your wireless provider for enhanced security. [20]

Modern Standby
A completely revamped standby system means you're ready to work the moment inspiration strikes. With no sleep mode and no off mode, the modern standby keeps your rig connected and on demand whenever you need it.

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Specifications Table

Available Operating Systems	Windows 11 Pro[1] Windows 11 Home – HP recommends Windows 11 Pro for business[1] Windows 10 Home Single Language – HP recommends Windows 11 Pro for business[1] Windows 11 Pro (Windows 11 Enterprise or Windows 10 Enterprise available with a Volume Licensing Agreement)[1] Windows 11 Pro (preinstalled with Windows 10 Pro Downgrade)[1,2] FreeDOS 3.0[49] (Device comes with Windows 10 and a free Windows 11 upgrade or may be preloaded with Windows 11. Upgrade timing may vary by device. Features and app availability may vary by region. Certain features require specific hardware (see Windows 11 Specifications).)
Processor family[2,3,4,5]	11th Generation Intel® Core™ i7 processor; 11th Generation Intel® Core™ i5 processor
Available Processors[2,3,4,5]	Intel® Core™ i5-1135G7 (2.4 GHz base frequency, up to 4.2 GHz with Intel® Turbo Boost Technology, 8 MB L3 cache, 4 cores) Intel® Core™ i5-1145G7 (2.6 GHz base frequency, up to 4.4 GHz with Intel® Turbo Boost Technology, 8 MB L3 cache, 4 cores) Intel® Core™ i7-1185G7 (3.0 GHz base frequency, up to 4.8 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 4 cores) Intel® Core™ i7-1165G7 (2.8 GHz base frequency, up to 4.7 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 4 cores, 8 threads)
Chipset	Intel® Integrated SoC
Maximum memory	64 GB DDR4-3200 non-ECC SDRAM [8]
Memory slots	2 SODIMM; supports dual channel
Internal storage	256 GB up to 2 TB PCIe® Gen3 x4 NVMe™ M.2 2280 TLC Self Encrypting (SED) Solid State Drive (SSD)[7] 256 GB up to 512 GB PCIe® Gen3 x4 NVMe™ M.2 2280 TLC Solid State Drive (SSD)[7] up to 256 GB PCIe® Gen3 x4 NVMe™ M.2 2280 TLC Value Solid State Drive (SSD)[7] up to 512 GB Intel® PCIe® NVMe™ QLC M.2 SSD with 32 GB Intel® Optane™ memory H10 PCIe® NVMe™ M.2 QLC SSD[7, 50, 51] up to 128 GB PCIe® Gen 3 x 2 NVMe ™ M.2 SSD[7]
Display size (diagonal, metric)	39.6 cm (15.6")
Display	39.6 cm (15.6") diagonal, FHD (1920 x 1080), touch, IPS, anti-glare, 250 nits, 45% NTSC; 39.6 cm (15.6") diagonal, FHD (1920 x 1080), IPS, anti-glare, 1000 nits, 72% NTSC, HP Sure View Reflect integrated privacy screen; 39.6 cm (15.6") diagonal, FHD (1920 x 1080), IPS, anti-glare, 400 nits, 100% sRGB; 39.6 cm (15.6") diagonal, 4K UHD (3840 x 2160), IPS, anti-glare, 400 nits, 100% sRGB; 39.6 cm (15.6") diagonal, FHD (1920 x 1080), IPS, anti-glare, 250 nits, 45% NTSC [11,33,34,36,37]
Available Graphics	Integrated: Intel® Iris® Xᵉ Graphics[11,27,28] Discrete: NVIDIA® T500 (4 GB GDDR6 dedicated)[12,32] (Intel® Iris® Xe Graphics capabilities require system to be configured with Intel® Core™ i5 or i7 processors and dual channel memory. Intel® Iris® 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 headphone/microphone combo; 1 SuperSpeed USB Type-A 5Gbps signaling rate (charging) ; Right side: 1 power connector; 1 HDMI 2.0b; 2 Thunderbolt™ 4 with USB4™ Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4, HP Sleep and Charge); 1 SuperSpeed USB Type-A 5Gbps signaling rate
Keyboard	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
Mouse	Dual pointstick; Clickpad with multi-touch gesture support, taps enabled as default; Microsoft Precision Touchpad with gesture support

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Specifications Table

Communications	WLAN:Intel® Wi-Fi 6 AX201 (2x2) and Bluetooth® 5.2 wireless card, non-vPro®; WWAN:Intel® XMM™ 7360 LTE-Advanced Cat 9; Qualcomm® Snapdragon™ X55 5G Modem[10,47]; Optional Near Field Communication (NFC) module
Camera	720p HD camera; 720p HD IR camera[13,14]
Software[18,19,22,23,35,55]	Bing search for IE11 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 UEFI HP PC Hardware Diagnostics Windows HP Privacy Settings HP Programmable Key HP QuickDrop HP Touchpoint Customizer HP WorkWell TileApp (optional)
Security management[24,26,31,34,38,39,40,41,42,43,44,45,46,48]	HP Sure Click HP Secure Erase HP Manageability Integration Kit HP Sure Sense HP Sure Recover Gen3 HP BIOSphere Gen6 HP Sure Start Gen6 HP Sure Admin HP Tamper Lock MS Bitlocker Encryption HP Image Assistant Gen4.6 HP Proactive Security (DaaS) HP TPM Configuration Utility HP Sure Run Gen4 HP Client Security Manager Gen7 HP Sure Recover Gen4 with Embedded Reimaging Secured-core PC capable TPM 2.0 Embedded Security Chip Infineon SLB9670 HP Sure View Reflect
Fingerprint reader	Fingerprint reader (select models)
Power	HP Smart 65 W External AC Power Adapter; HP Smart 45 W External AC Power Adapter
Battery type	HP Long Life 3-cell, 56 Wh Li-ion polymer[30]
Battery life	Up to 14 hours[15]
Battery recharge time	Supports battery fast charge: approximately 50% in 30 minutes
Dimensions	35.95 x 23.36 x 1.92 cm
Weight	Starting at 1.7 kg; (Weight varies by configuration and components.)
Ecolabels	ENERGY STAR® certified and EPEAT® Gold registered configurations available[16,52]
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; Outside box and corrugated cushions are 100% sustainably sourced and recyclable[17,51,52,53,54]
Warranty	3 year (3-3-0) limited warranty and service offering 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 3 year Next Business Day Onsite Hardware Support for Notebooks

Receive 3 years of next business day onsite HW Support from an HP-qualified technician for your computing device, if the issue cannot be solved remotely.
Product number: U4414E

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Messaging Footnotes

1 Weight will vary by configuration.

2 Based on Wi-Fi 5 80MHz and Wi-Fi 6 160MHz minimum requirements when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 802.11ax (Wi-Fi 6). Only available in countries where 802.11ax is supported. Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 is backwards compatible with prior 802.11 specs. The specifications for Wi-Fi 6 (802.11ax) are draft and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other 802.11ax devices.

3 Gigabit class Category 16 4G LTE module is optional and must be configured at the factory. Module designed for up to 1 Gbps download speeds as carriers deploy 5 carrier aggregation and 100Mhz channel bandwidth, requires activation and separately purchased service contract. Backwards compatible to HSPA 3G technologies. Check with service provider for coverage and availability in your area. Connection, upload and download speeds will vary due to network, location, environment, network conditions, and other factors. 4G LTE not available on all products, in all regions.

4 When compared to HP ZBook 15u G6

5 HP SureView Reflect is an optional feature, requires factory configuration and is designed to operate in landscape orientation.

6 4K UHD display is an optional feature and requires configuration at purchase.

7 When compared to standard FHD displays.

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

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

11 Autodesk software sold separately.

13 HP Sure Start Gen7 is available on select HP PCs with Intel processors. See product specifications for availability.

14 HP Sure Sense requires Windows 10. See product specifications for availability.

15 Speaker enclosure component made with 5% ocean bound plastic as of 2/3/2020. Uses 75% recycled Aluminum 6063 (architectural aluminum) – A Cover (lid), uses 50% recycled Aluminum 5052 (appliance aluminum) – C & D Cover (keyboard deck & Bottom).

16 Testing is not intended to demonstrate fitness of U.S. Department of Defense (DoD) contract requirements or for military use. Test results are not a guarantee of future performance under these test conditions. Accidental damage requires an optional HP Accidental Damage Protection Care Pack.

17 HP Thunderbolt Dock with Thunderbolt™ 3 sold separately.

18 External displays sold separately.

19 Optional hybrid graphics is required to run up to two external 4K displays.

20 5G is an optional feature, requires separately purchased service contract, and configuration at purchase. Check with service provider for coverage and availability in your area. Connection speeds will vary due to location, environment, network conditions, and other factors. 4G LTE not available on all products, in all regions.

Technical Specifications Footnotes

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.

3 Processor speed denotes maximum performance mode; processors 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 more information.

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 7th generation and forward processors or provide any Windows 8 or Windows 7 drivers on http://www.support.hp.com .

6 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.

7 For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 35GB of disk is reserved for system recovery software.

8 The term "10/100/1000" or "Gigabit" Ethernet indicates compatibility with IEEE standard 802.3ab for Gigabit Ethernet, and does not connote actual operating speed of 1 Gb/s. For high-speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required.

9 Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 is backwards compatible with prior 802.11 specs. The specifications for Wi-Fi 6 (802.11ax) are draft and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other 802.11ax devices. Only available in countries where 802.11ax is supported.

10 WWAN is an optional feature and requires 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. 4G LTE not available on all products, and in all regions.

11 UHD content required to view UHD images.

12 Both UMA & Discrete configurations support 3 independent displays when on the HP UltraSlim 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 G2 (sold separately) - Max. resolution = 2.5K @60Hz (DP1) & 2.5K @60Hz (DP2) & FHD (VGA) OR 4K @60Hz (one DP Port) & 4K @60Hz (Type-C output port using a Type C-to-DP adapter).

13 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.

15 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 MobileMark14 battery benchmark https://bapco.com/products/mobilemark-2014/ for additional details

16 EPEAT® registered 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/options.

17 External power supplies, WWAN modules, power cords, cables and peripherals excluded. Service parts obtained after purchase may not be Low Halogen.

18 HP Support Assistant - Internet access required.

19 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.

22 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 .

23 HP Performance Advisor Software. Learn more or download at: https://www8.hp.com/us/en/workstations/performance-advisor.html

24 HP BIOSphere Gen6 requires Windows 10 and is available on select HP Pro and Elite PCs. Features may vary depending on the platform and configurations.

26 HP Support Assistant - Internet access required.

27 Support HD decode, DX12, HDMI 1.4, HDCP 2.2 via DP up to 4K @ 60Hz and via HDMI up to 4K @ 30Hz

28 Shared video memory (UMA) uses part of the total system memory for video performance. System memory dedicated to video performance is not available for other use by other programs

30 Supports HP Fast Charge Technology

31 Secured-core PC requires an Intel® vPro® or AMD Ryzen™ Pro processor. Requires 8 GB or more system memory. Secured-core PC functionality can be enabled from the factory.

32 HDMI cable Sold Separately.

33 HP Sure View Gen3 integrated privacy screen is an optional feature that must be configured at purchase and is designed to function in landscape orientation.

34 For the methods outlined in the National Institute of Standards and Technology Special Publication 800-88 "Clear" sanitation method. HP Secure Erase does not support platforms with Intel® Optane™.

35 HP Connection Optimizer requires Windows 10.

36 Sold separately or as an optional feature.

37 Resolutions are dependent upon monitor capability, and resolution and color depth settings.

38 HP Manageability Integration Kit can be downloaded from http://www8.hp.com/us/en/ads/clientmanagement/overview.html

39 HP Sure Sense requires Windows 10.

40 HP Tamper Lock is an optional feature that must be configured at the factory and requires a supervisor password be established prior to use.

41 HP Sure Run Gen4 is available on select HP PCs and requires Windows 10.

42 HP Sure Recover Gen4 with Embedded Reimaging is an optional feature which requires Windows 10 must be configured at purchase. You must back up important files, data, photos, videos, etc. before use to avoid loss of data. Network based recovery using Wi-Fi is only available on PCs with Intel Wi-Fi Module.

43 HP Sure Admin requires Windows 10, HP BIOS, HP Manageability Integration Kit from http://www.hp.com/go/clientmanagement and HP Sure Admin Local Access Authenticator smartphone app from the Android or Apple store.

44 HP Client Security Manager Gen7 requires Windows and is available on the select HP Elite and Pro PCs.

45 HP Sure Start Gen6 is available on select HP PCs and requires Windows 10.

46 HP Sure Click requires Windows 10 and supports Microsoft Internet Explorer, Google Chrome™, and Chromium™. Supported attachments include Microsoft Office (Word, Excel, PowerPoint) and PDF files in read only mode, when Microsoft Office or Adobe Acrobat are installed.

47 Gigabit class Category 16 4G LTE module is optional and must be configured at the factory. Module designed for up to 1 Gbps download speeds as carriers deploy 5 carrier aggregation and 100Mhz channel bandwidth, requires activation and separately purchased service contract. Backwards compatible to HSPA 3G technologies. Check with service provider for coverage and availability in your area. Connection, upload and download speeds will vary due to network, location, environment, network conditions, and other factors. 4G LTE not available on all products, in all regions.

48 Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited.

49 Web-only Support

50 Intel® Optane™ memory system acceleration does not replace or increase the DRAM in your system. Requires 8th Gen or higher Intel® Core™ processor, BIOS version with Intel® Optane™ supported, Windows 10 64-bit, and an Intel® Rapid Storage Technology (Intel® RST) driver.

51 Percentage of ocean-bound plastic contained in each component varies by product.

52 Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 standard.

53 Fiber cushions made from 100% recycled wood fiber and organic materials.

54 100% outer box packaging and corrugated cushions made from sustainably sourced certified and recycled fibers.

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.

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