



HP Sales Central

HP ZBook Firefly 14 G8 Mobile Workstation (3Q5L6PA)

Active as of 24/01/2021



Overview

ZBook performance, more mobile than ever.

Our smallest and lightest ZBook ever provides true mobility for people who push the typical business PC past its breaking point. In the field or at home, with pro-level performance and a color-accurate DreamColor display, you have everything you need to review work and manage projects from anywhere.

Color accuracy to match the highest standards

Enjoy beautiful visuals even in direct light with a super-bright display. Images are more detailed and require less panning and zooming⁷. All this in a modern, slim-bezel design that maximizes your viewing area.

Pro-level performance. To go.

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

Manage it on the move

At less than 5lbs¹ our most mobile ZBook is made to move. With 3X faster Wi-Fi®² and better battery life⁴, you're equipped for days offsite.

Specifications

Operating system

Windows 10 Pro 64

Processor family

11th Generation Intel® Core™ i7 processor

MDA key selling point

Windows 10 Pro or other operating systems available

Processor

Intel® Core™ i7-1165G7 (up to 4.7 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 4 cores)

Chipset

Intel® Integrated SoC

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

Security management

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 Sure View Reflect; HP Tamper Lock; MS Bitlocker Encryption; HP Proactive Security; HP Image Assistant Gen4.6; HP TPM Configuration Utility; HP Sure Run Gen4; HP Client Security Manager Gen7; HP Sure Recover Gen4 with Embedded Reimaging; Secured-core PC capable

Memory

16 GB DDR4-3200 MHz RAM (1 x 16 GB)

Memory layout (slots & size)

1 x 16 GB

Memory Slots

2 SODIMM, supports dual channel (integrated graphics configurations), Memory soldered down, supports dual channel (discrete graphics configurations)

Internal Storage

512 GB PCIe® NVMe™ M.2 SSD

Display

35.6 cm (14") diagonal, FHD (1920 x 1080), IPS, anti-glare, 400 nits, 100% sRGB

Graphics (integrated)

Intel® Iris® Xe Graphics

I/O Port location

Left side

Ports

1 headphone/microphone combo; 1 SuperSpeed USB Type-A 5Gbps signaling rate; 1 SuperSpeed USB Type-A 5Gbps signaling rate (charging)

I/O Port location

Right side

Ports

1 power connector; 1 HDMI 2.0b; 2 Thunderbolt™ 4 with USB4™ Type-C® 40Gbps signaling rate (USB Power Delivery, HP Sleep and Charge)

Network interface type

WLAN

Wireless

Intel® Wi-Fi 6 AX201 (2x2) and Bluetooth® 5 combo, non-vPro®

Power

HP Smart 65 W External AC Power Adapter

Battery type

HP Long Life 3-cell, 53 Wh Li-ion polymer

Minimum dimensions (W x D x H)

32.3 x 21.46 x 1.79 cm

Weight

Starting at 1.35 kg

Software included

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 QuickDrop¹⁸

¹⁹

²⁰

²²

²³

²⁶

⁵⁵₁

Keyboard

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

Overview

- 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 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.
- 4 When compared to HP ZBook 14u G6.
- 5 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.
- 6 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.
- 7 When compared to standard FHD displays.

Specifications

- 18 HP Support Assistant - Requires Windows and Internet Access.
- 19 HP ZCentral Remote Boost does not come preinstalled on Z Workstations but can be downloaded and run on all Z desktop and laptops without license purchase. 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. RGS requires Windows, RHEL (7 or 8), UBUNTU 18.04 LTS, or HP ThinPro 7 operating systems. MacOS (10.13 or newer) operating system is only supported on the receiver side. Requires network access. The software is available for download at hp.com/ZCentralRemoteBoost.
- 20 Web-only Support
- 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>
- 26 HP Connection Optimizer requires Windows 10.
- 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.

Detailed Specifications

Additional information on the product category

For the latest information, please visit our Web site at <http://www.hp.com/workstations>

Ambient light sensor

Ambient light sensor

Audio features

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

Battery brand

HP

Battery capacity

53

Battery capacity uom

Wh

Battery cells number

3

Battery life

Long Life

Battery recharge time

Supports battery fast charge: approximately 50% in 30 minutes

Battery type

HP Long Life 3-cell, 53 Wh Li-ion polymer

Battery type

Li-ion polymer

Bluetooth version

Bluetooth® 5.0

Camera

720p HD IR privacy camera with integrated dual array microphones

Camera Infrared

IR

Camera resolution (vertical)

720p

Camera resolution standard

HD

Chipset

Intel® Integrated SoC

Code name

CorvetteW14

Color gamut

100% sRGB

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Display

14" diagonal 4K UHD display

Display

14" diagonal, FHD (1920 x 1080), IPS, anti-glare, 400 nits, 100% sRGB

Display

35.6 cm (14") diagonal FHD display

Display

35.6 cm (14") diagonal, FHD (1920 x 1080), IPS, anti-glare, 400 nits, 100% sRGB

Display brightness

400

Display brightness uom

nits

Display footnote number

[11,33,36,37]

Display panel technology

IPS

Display resolution (pixels)

1920 x 1080

Display resolution standard

FHD

Display size (diagonal)

14"

Display size (diagonal) uom

"

Display size (diagonal, imperial)

14

Display size (diagonal, metric)

35.6

Display size (diagonal, metric) uom

cm

Display surface treatment

anti-glare

ECC memory

No

Graphic card footnote number

[12,32]

Graphics

Discrete

Graphics

Integrated

Graphics (discrete)

NVIDIA® T500 (4 GB GDDR6 dedicated)

Graphics (integrated)

Intel® Iris® Xe Graphics

Graphics card brand

NVIDIA®

Graphics card family

Quadro®

Graphics card memory size

4

Graphics card memory size uom

GB

Graphics card memory type

GDDR6

I/O Port location

Left side

I/O Port location

Right side

Image legal disclaimer

Product image may differ from actual product

Internal Storage

512 GB PCIe® NVMe™ M.2 SSD

Keyboard

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

Keyboard backlight

backlit

Keyboard features

Spill-resistant

Keyboard name

HP Premium Quiet Keyboard

Keyboard size

Full-size

Legal tagline

HP recommends Windows 10 Pro for business

MDA key selling point

Windows 10 Pro or other operating systems available

Memory

16 GB DDR4-3200 MHz RAM (1 x 16 GB)

Memory and storage

16 GB memory; 512 GB SSD storage

Memory layout (slots & size)

1 x 16 GB

Memory module type

DIMM

Memory size

16

Memory size uom

GB

Memory Slots

2 SODIMM, supports dual channel (integrated graphics configurations), Memory soldered down, supports dual channel (discrete graphics configurations)

Memory speed

3200

Memory speed uom

MHz

Memory type

DDR4

Minimum dimensions (W x D x H)

32.3 x 21.46 x 1.79 cm

Model Number

T500

Network interface type

WLAN

Number of memory slots

1

Operating system

Windows 10 Pro 64

Pointing device

Clickpad with multi-touch gesture support

Ports

1 headphone/microphone combo; 1 SuperSpeed USB Type-A 5Gbps signaling rate; 1 SuperSpeed USB Type-A 5Gbps signaling rate (charging)

Ports

1 power connector; 1 HDMI 2.0b; 2 Thunderbolt™ 4 with USB4™ Type-C® 40Gbps signaling rate (USB Power Delivery, HP Sleep and Charge)

Power

HP Smart 65 W External AC Power Adapter

Processor

Intel® Core™ i7-1165G7 (up to 4.7 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 4 cores)

Processor base frequency

2.8

Processor base frequency uom

GHz

Processor Brand

Intel®

Processor cache

12 MB L3

Processor core

4

Processor family

11th Generation Intel® Core™ i7 processor

Processor family

Core™ i7

Processor frequency technology

Intel® Turbo Boost Technology

Processor generation

11th Generation

Processor maximum frequency

4.7

Processor maximum frequency uom

GHz

Processor model

1165G7

Processor threads

8

Sales office and telephone number

Albania: +49 89 9396 1803; Algeria: +213 (0) 61 68 23 00; Austria: +43 (0) 810 00 60 80; Bahrain: 800 171; Belgium: +32 (02) 729 71 11; Bulgaria: +359 2 969 87; Bosnia-Herzegovina: +49 89 9396 1803; Commonwealth of Independent States (CIS): +(095) 923 50 01; Croatia: +385 1 606 02 00; Czech Republic: +420 261 108 108; Denmark: +45 48 12 10 00; HP East Africa, Authorized Consultant: +254 20 27 16 111 ; Egypt: HP +202 792 5070 ; Estonia: +372 6 813 820; Finland: HP Myyntipalvelu 010 217 2700; France: +33 (0) 826 800 400; Germany: +49 (0) 180 532 62 22; Greece: +30 801 11 22 55 47; Hungary: +36 (1) 382 11 11; Iceland: +354 (1) 67 10 00; Ireland: +353 1 615 82 00; Israel: +972 9 830 48 48; Italy: Prodotti +39 02 92607 330, Servizio HP Care Pack: +39 02 9212 2040; Kazakhstan & Kyrgyzstan: +7 327 2 58 43 43;

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Security management

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 Sure View Reflect; HP Tamper Lock; MS Bitlocker Encryption; HP Proactive Security; HP Image Assistant Gen4.6; HP TPM Configuration Utility; HP Sure Run Gen4; HP Client Security Manager Gen7; HP Sure Recover Gen4 with Embedded Reimaging; Secured-core PC capable

Security management footnote number

[24,25,31,32,34,38,40,42,43,44,45]

Service description

HP 5-year Next Business Day Onsite Workstation Only Hardware Support

Services (Care Pack)

Receive 5 years of next business day onsite repair from an HP-qualified technician for your computing device, if the issue cannot be solved remotely. For more information on Care Pack services, please visit

www.hp.com/go/cpc.

Software included

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 QuickDrop

Software included footnote number

[18,19,20,22,23,26,55]

Standard memory note

Transfer rates up to 3200 MT/s.

Storage capacity 01

512

Storage capacity uom 01

GB

Storage form factor 01

M.2

Storage interface 01

PCIe®

Storage interface protocol 01

NVMe™

Storage type

SSD

Storage type 01

SSD

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

Sustainable impact specifications footnote number

[17,51,52,53,54]

Tech spec footnote

[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 10 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. See <http://www.windows.com>.

Tech spec footnote

[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.

Tech spec footnote

[11] HP DreamColor Panel available in the Q2 2021 timeframe.

Tech spec footnote

[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).

Tech spec footnote

[13] HD content required to view HD images.

Tech spec footnote

[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.

Tech spec footnote

[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

Tech spec footnote

[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.

Tech spec footnote

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

Tech spec footnote

[18] HP Support Assistant - Requires Windows and Internet Access.

Tech spec footnote

[19] HP ZCentral Remote Boost does not come preinstalled on Z Workstations but can be downloaded and run on all Z desktop and laptops without license purchase. 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. RGS requires Windows, RHEL (7 or 8), UBUNTU 18.04 LTS, or HP ThinPro 7 operating systems. MacOS (10.13 or newer) operating system is only supported on the receiver side. Requires network access. The software is available for download at hp.com/ZCentralRemoteBoost.

Tech spec footnote

[2] 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.

Tech spec footnote

[20] Web-only Support

Tech spec footnote

[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>.

Tech spec footnote

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

Tech spec footnote

[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.

Tech spec footnote

[25] 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.

Tech spec footnote

[26] HP Connection Optimizer requires Windows 10.

Tech spec footnote

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

Tech spec footnote

[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.

Tech spec footnote

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

Tech spec footnote

[30] Supports HP Fast Charge Technology

Tech spec footnote

[31] HP Sure Run Gen4 is available on select HP PCs and requires Windows 10.

Tech spec footnote

[32] 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.

Tech spec footnote

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

Tech spec footnote

[34] HP Sure Sense requires Windows 10 Pro or Enterprise 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.

Tech spec footnote

[36] Sold separately or as an optional feature.

Tech spec footnote

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

Tech spec footnote

[38] HP Manageability Integration Kit can be downloaded from <http://www.hp.com/go/clientmanagement>.

Tech spec footnote

[4] Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration. See www.intel.com/technology/turboboost for more information.

Tech spec footnote

[40] 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™.

Tech spec footnote

[42] HHP 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.

Tech spec footnote

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

Tech spec footnote

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

Tech spec footnote

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

Tech spec footnote

[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.

Tech spec footnote

[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>.

Tech spec footnote

[6] Multi-core 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.

Tech spec footnote

[7] Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration. See <http://www.intel.com/technology/turboboost/> for more information.

Tech spec footnote

[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.

Tech spec footnote

[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.

Tech spec footnote 51

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

Tech spec footnote 52

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

Tech spec footnote 53

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

Tech spec footnote 54

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

Tech spec footnote 55

[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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UNSPSC code

43211503

vPro enabled

non-vPro®

Weight

Starting at 1.35 kg

Weight note (metric)

Weight varies by configuration and components.

Wireless

Intel® Wi-Fi 6 AX201 (2x2) and Bluetooth® 5 combo, non-vPro®

Wireless antenna

2x2

Wireless Model

Wi-Fi 6 AX201

Wireless standard

Wi-Fi 6

Wireless supplier

Intel®

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