# HP ZBook Firefly 14 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 pro-grade graphics and processor, Al-enhancing webcam and audio, and a color-accurate display—everything you need to collaborate and manage projects anywhere.



\*Product image may differ from actual product

HP recommends Windows 11 Pro for business

#### Upgrade to pro-level performance

Say goodbye to lags and crashes with faster responsiveness on projects. With up to Intel<sup>®</sup> 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 3.25 lbs,<sup>4</sup> our most mobile ZBook is made to move. With up to 13-hours of battery life,<sup>5</sup> 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,<sup>6</sup> discrete audio amps to block background noises and next-gen Wi-Fi 6E<sup>7,8</sup> or 5G<sup>9</sup> 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 HP DreamColor display<sup>2</sup> with 100% DCI-P3 shows more vertical content and delivers vivid, always accurate color and detail. Now with a 120Hz refresh rate get smooth motion for high-speed videos.
- Work anywhere without compromising on performance or security with Windows 11<sup>11</sup> powered by HP's collaboration and connectivity technology.
- Move around a little without losing viewers' attention during video calls with HP Auto Frame.<sup>10</sup> 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.
- $\bullet \quad \text{Blitz through multiple tasks and ditch external drives with up to 2 TB local NVMe storage} \\ ^{12,13}$
- $\bullet \;\;$  Power through projects with up to 64 GB RAM  $^{14}$  for fast editing and design.
- Power through projects with up to NVIDIA® T550 Laptop GPU,<sup>2</sup> certified for pro-apps.
- Bring your ideas to live quickly and effectively with a 12th gen Intel<sup>®</sup> Core<sup>™</sup> processor.
- Get a fast and reliable connection in dense wireless environments with Wi-Fi 6E.<sup>8</sup>
   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.<sup>9</sup>
- 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 14 inch G9 Mobile Workstation PC Specifications Table



Sustainable impact specifications





*Product image may differ from actual produc	at t
Available Operating Systems	Windows 11 Pro <sup>1</sup> Windows 11 Pro Education <sup>1</sup> Windows 11 Home – HP recommends Windows 11 Pro for Business <sup>1</sup> Windows 11 Home Single Language – HP recommends Windows 11 Pro for Business <sup>1</sup> Windows 11 Pro (Windows 11 Enterprise available with a Volume Licensing Agreement) <sup>1</sup> Windows 11 Pro (preinstalled with Windows 10 Pro Downgrade) <sup>1,2</sup> FreeDOS <sup>49</sup>
Processor family <sup>3,4,5,6</sup>	12th Generation Intel®Core™i7 processor, 12th Generation Intel®Core™i5 processor
Available Processors <sup>3,4,5,6</sup>	Intel®Core™17-1260P (1.5 GHz E-corebase frequency, 2.1 GHz P-corebase frequency, up to 3.4 GHz E-core Max Turbo frequency, up to 4.7 GHz P-coreMax Turbo frequency, up to 4.6 GHz E-corebase frequency, up to 3.3 GHz E-coreMax Turbo frequency, up to 4.4 GHz P-coreMax Turbo frequency, up to 4.6 GHz P-coreMax Turbo frequency, up to 4.6 GHz P-coreMax Turbo frequency, up to 4.6 GHz P-coreMax Turbo frequency, up to 4.7 GHz P-coreMax Turbo frequency, 12 MBL3 cache, 2 P-cores and 8 E-cores, 12 threads); httel®Core™5-1235U(0.9 GHz E-corebase frequency, 1.3 GHz P-corebase frequency, up to 3.3 GHz E-coreMax Turbo frequency, up to 4.4 GHz P-corebase frequency, 1.3 GHz P-corebase frequency, 1.3 GHz P-corebase frequency, up to 3.4 GHz E-coreMax Turbo frequency, up to 4.5 GHz P-corebase frequency, 1.8 GHz P-corebase frequency, up to 3.4 GHz E-coreMax Turbo frequency, up to 4.5 GHz P-corebase frequency, 1.8 GHz P-corebase frequency, up to 3.5 GHz E-coreMax Turbo frequency, up to 4.6 GHz P-coreMax Turbo frequency, up to 4.6
Chipset	Intel® Integrated SoC
Maximum memory	64 GB DDR5-4800 non-ECC SDRAM <sup>8,30</sup>
Memoryslots	2 SODIMM; supports dual channel
Internal storage	256 GB up to 2 TB PCIe® Gen4 x4 NVMe™ M.2 2280 TLC SSD <sup>7</sup> 256 GB up to 512 GB PC Ie® Gen4 x4 NVMe™ M.2 2280 TLC SSD OPAL2 SSD <sup>7</sup>
Display size (diagonal, metric)	35.6 cm (14")
Display	14" diagonal, WQXGA (2560 x 1600), 120 Hz, PS, anti-glare, 500 nits, 100% DCLP3, HP DreamColor; 14" diagonal, WUXGA (1920 x 1200), PS, anti-glare, 250 nits, 45% NTSC; 14" diagonal, WUXGA (1920 x 1200), touch, IPS, anti-glare, 250 nits, 45% NTSC; 14" diagonal, WUXGA (1920 x 1200), IPS, anti-glare, 400 nits, 100% sRGB; 14" diagonal, WUXGA (1920 x 1200), IPS, anti-glare, 1000 nits, 100% sRGB, HP Sure View Reflect integrated privacy screen 11,33,36,37" anti-glare, 250 nits, 100% DCL-P3, HP DreamColor; 35.6 cm (14") diagonal, WUXGA (1920 x 1200), IPS, anti-glare, 250 nits, 45% NTSC; 35.6 cm (14") diagonal, WUXGA (1920 x 1200), IPS, anti-glare, 250 nits, 45% NTSC; 35.6 cm (14") diagonal, WUXGA (1920 x 1200), IPS, anti-glare, 250 nits, 45% NTSC; 35.6 cm (14") diagonal, WUXGA (1920 x 1200), IPS, anti-glare, 250 nits, 45% NTSC; 35.6 cm (14") diagonal, WUXGA (1920 x 1200), IPS, anti-glare, 250 nits, 45% NTSC; 35.6 cm (14") diagonal, WUXGA (1920 x 1200), IPS, anti-glare, 400 nits, 100% sRGB; 35.6 cm (14") diagonal, WUXGA (1920 x 1200), IPS, anti-glare, 1000 nits, 100% sRGB; 100% sRGB; 35.6 cm (14") diagonal, WUXGA (1920 x 1200), IPS, anti-glare, 1000 nits, 100% sRGB, HP Sure View Reflect integrated privacy screen 11,33,36,37"
Available Graphics	Integrated: Intel® iris® X® Graphics <sup>27,28,32</sup> Discrete: NVDIA® T550 Laptop GPU (4 GB GDDR6 dedicated): NVDIA RTX™ A500 Laptop GPU (4 GB GDDR6 dedicated) <sup>12,32</sup> (Intel® iris® 82 Graphics capabilises 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 Microphonedual 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 HDM12.0b; 2 Thunderbolt™ 4 with USB4™ Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4, HP Sleep and Charge); Right side: 1 headphone/microphone combo; 1 SuperSpeed USB Type-A 5Gbps signaling rate
Input devices	HP Premium Quiet Keyboard – spill-resistant, full-size keyboard with drain and DuraKeys; HP Premium Quiet Keyboard – spill-resistant, full-size, backlit keyboard with drain and DuraKeys; Clickpad with multi-touch gesture support, taps enabled as default; Microsoft Precision Touchpad with gesture support;
Communications	WLAN: httel®Wi-FiGE AX211 (2x2) and Bluetooth®5.3 wireless card, vPro®; httel®Wi-FiGE AX211 (2x2) and Bluetooth®5.3 wireless card, non-vPro®9; WWAN: Intel®XMM™7560 LTE Advanced Pro Cat 16; httel®5GSolution 5000 10.47; Optional Near Field Communication (NFC) module
Camera	5MP Camera <sup>13,14</sup>
Software	Bing search for IE 11; 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 Z Central Remote Boots Software; myHP; HP PC Hardware Diagnostics UER; HP PC Hardware Diagnostics Windows; HP Privacy Settings; HP Orgrammable Rey; HP Quick/Drop; HP Touchpoint Customizer; HP Workflwd; Tize <sup>2</sup> M pp (optional); <sup>18,192</sup> 027-122272855
Security management	HP SureClick; HP Secure Erase; HP Manageability Integration Kit; HP SureSense; HP BIOSphere Gen6; HP SureStart Gen6; MS Bitlocker Encryption; HP Proactive Security, Nano Security Lock Slot; HP Image Assistant Gen4.6; HP TPM Configuration Utility, HP SureNu Gen4; HP Client Security Manage Gen7; HP SureRecover Gen4 with Embedded Remaing; Secured-core PC capable; TPM 2.0 Embedded Security (hip; Infineon StuB9670; Camera privacy shutter; HP Tamper Lock (select models); HP SureView Reflect**4.55293-332-3334-3640-3644-3644-3644-3644-3644-3644
Fingerprint reader	Fingerprint reader (select models)
Management features	HP Power Manager <sup>15</sup>
Power	HP Smart 65 W External AC USB Type-C®power adapter
Battery type	HP Long Life 3-cell, 51 Wh Li-ion polymer
Batterylife	Up to 13 hours (integrated graphic configuration); Up to 11.5 hours (discrete graphics configuration)
Battery recharge time	Supports battery fast charge: approximately 50% in 30 minutes
Dimensions	12.42x8.8x0.78in; 31.56x22.43x1.99 cm
Weight	Starting at 3.26 lb; Starting at 1.47 kg; (Weight varies by configuration and components.)
Ecolabels	EPEAT® registered configurations available <sup>16</sup>
Energy star certified (series fixed)	ENERGY STAR® certified
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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

## HP ZBook Firefly 14 inch G9 Mobile Workstation PC

#### 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 a 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

- Based on HP's internal analysis of monitor series with webcams. Most advanced based on physical integration, camera angle tile, Windows Hello IR sensor, minimum 5MP and as privacy pop-up as of 5/28/2021.

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

#### HP Wireless Rechargeable 950MK Mouse and Keyboard



Experience clutter-free productivity, simple, streamlined connectivity, and fast out-of-the-box HP Link-5 plug and play setup with the elegant HP Wireless Rechargeable 950MK Mouse and Keyboard.

#### Product number: 3M165AA

1 Select household wipes can be safely used to clean HP Elite Presenter Mouse, HP Premium keyboard (wireless and USB) and HP desktop wired 320 KB/Mouse up to 1,000 wipes: See wipe manufacturer's instructions for disinfecting and the HP cleaning guide for HP tested wipe solutions at How to Sanitize Your HP Device Whitepaper.

#### HP Executive 15.6 Backpack



Take on the world in style with an HP Executive Series notebook case that provides a polished, professional look. The sleek profile and premium materials make a bold statement and keep your devices and data on lockdown. Traveling is a breeze and device-charging is easy—even from outside the bag.

#### Product number: 6KD07AA

Lock sold separately.Power bank sold separately.

### HP ZBook Firefly 14 inch G9 Mobile Workstation PC

#### Messaging Footnotes

- <sup>1</sup> 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.

  <sup>2</sup> Optional, configurable feature that must be configured at purchase.

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

- July to 64GB memory is an optional feature that must be configured at purchase.
  Lowest weight. Weight will vary open odduct 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 MobileMark1 8 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 is an optional feature that must be configured at purchase.
  Wi-FIGE router; 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.
  Som modules an optional feature that must be configured at purchase.
  Wi-FIGE router; 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.
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  Wi-FIGE is an optional feature that must be configured at purchase.
  Wi-FIGE is backwards compatible with prior 802.11 specs. And available in countries where Wi-FIGE is supported.
  Som modules an optional feature that must be configured at purchase. AT 8T and T-Mobile networks supported in the U.S. Module designed for 5G networks as carriers deploy Evolved-Universal Terrestrial Radio Access New Radio Dual Connectivity (ENDC) with both 100Mhz of 5G NR and UE channel bandwidth, using 256QAM 4v4 as defined by 3GPP, requires activation and separately purchased service contract. 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. SGnotavalable on all products, in all regions. Backwards com

<sup>3</sup> Optional, configurable feature.
<sup>4</sup> Up to 64GB memory is an optional feature that must be configured at purchase

uires Internet access and Windows 10 or higher PC preins stalled with HP QuickDrop app and either an Android device (phone or tablet) running Android 7 or higher with the Android HP QuickDrop app, and Joran iOS device (phone or tablet) running iOS 12 or higher with the iOS HP QuickDrop app

#### Technical Specifications Footnotes

1 Not all features are available in all editions or versions of Windows. Systems may require upgraded and brise parately purchased hardware, drivers, so ftware or BIOS update to take full advantage of Windows functionality. Windows is automatically updated

Notal leatures are available in all editions or versions of Windows. Systems may require upgraded and or separately purchased hardware, drivers, software or BUS update to take full advantage of Windows trunctionality. Windows is automatically updated and enabled. High speed internet and Microsoft accounter require upgraded additional require when they apply and additional require you ver time for updates. See thinty, (Neww. windows.com.

2 This system is preinstalled with Windows 10 Pro software and also comes with alicense 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.) beforeuninstalling 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 drivers on http://www.export.his.com/technology/turboboost performance with Microsoft's support policy, HP does not support the Windows 8 or Windows 7 drivers on http://www.export.his.com/technology/turboboost performance with Microsoft's support policy, HP does not support the Windows 8 or Windows 7 drivers on http://www.export.his.com/technology/turboboost for more information.

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

\*Multicores designed to improve performance of certain software products. Not all customers or software applications with 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 number from, branding and/or naming is not a measurement of higher performance.

7 Forstorage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 35GB (for Windows) 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 Wi-FiGE requires a Wi-FiGE routes, 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.

10 WIAN 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.

and other factors. 4GLTE not available on all products, and in all regions.

11 HP DreamColor Panel available in the Q2 2021 timeframe.

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 (DP1) &

20 Web-only Support
21 Tile\* requires Windows 10. Some features require optional subscription to Tile Premium. Ring feature not available on HP Elite GB Laptops. Tile application for Windows 10 available for download from the Windows Store. Mobile phone app available for download from App Storeand Google Play. Requires JOS 11 and greater or Android 6.0 and greater see https://support. thetileapp.com/hc/en-us/articles/200424778 for more information. HP Tile will function as long as the PC has battery power.
22 Miracast is a wireless stechnology 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 PerformanceAdvisor/Software. Learn more or download at: https://www.8.hp.com/us/en/workstations/performance-advisor.html
24 HP BIOSphereGen6 features may vary depending on the platform and configuration.
25 HP SureAdmin requires Windows 10 or higher, HP BIOS, HP Manageability https://www.hp.com/go.klientmanagement and HP SureAdmin Local Access Authenticator smartphone app from the Android or Applestore. HP Client Security Manager Gen7 requires Windows 10 or higher, HP BIOS, HP Manageability https://www.10 or https://w

<sup>26</sup> HP Connection Optimizer requires Windows 10.
<sup>27</sup> Support HD decode, DX12, HDMI 1.4, HDCP 2.2 via DP up to 4K @ 60Hz and via HDMI up to 4K @ 30Hz

\*\* Support HD decode, UX 12, HDM11, 4, HDLP 2.2 ValDP Up to 4K, @ 60HZ and VaH LMMUp to 4K, @ 30HZ
\*\*Shared video memory (UMA) uses part of the total system memory for video performance. System memory for video performance is not available for other use by other programs.

\*\*PHP Sure Click requires Windows 10 Pro or higher or Enterprise. See https://bit.ly/2PrIT6A\_SureClick for complete details.

\*\*Or system sconfigured with more than 3 GB of memory and a 32-bit operating system, all memory may not be available due to system resource requirements. Addressing memory above 4 GB requires a 64-bit operating system. Memory modules support datatrates up to 4800 MT/s; actual datarates determined by the system's configured processor. See processor specifications for supported memory datarate.

\*\*I HP Sure Run Gen 4's available on select HP PC's and requires Windows 10 and higher.

\*\*Secured-corePC requires an httel® VPro® or AMD Ryzen™ Pro processor. Requires 8 GB or more system memory. Secured-corePC functionality can be enabled from the factory.

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 34 HP Sure Sense is available on select HP PCs with Windows 10 Pro, Windows 10 Enterprise, Windows 11 Pro, or Windows 11 Enterprise 0S.

34 HP Sure Sense is available on select HP Cs with Windows 10 Pro, Windows 11 Pro, or Windows 11 Enterprise 0S.
35 myHP requires Windows 0S.
36 Sold sparately 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 histy-(hwww.hp. compositient management.
49 HP Secure Frase 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™.
42 HP Sure Recover Gen4 with Embedded Reimaging is an optional feature which requires Windows 10 and higher 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-Fis only available on PCs with Intel Wi-FiModule.
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.
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 and is available on the select HP Elite and Pro PCs.
46 HP Start Gen6 is available on select HP PCs and requires Windows and several power of the power of the properties of the properties of the power of the powe conditions, and other factors. 4G LTE not available on all products, in all regions.

19 Web-only Support

\*\* Web-only support

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 EEE 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 Quick Drop app and either an Android device (phone or tablet) running Android 7 or higher with the Android HP Quick Drop app, and bran iOS device (phone or tablet) running iOS 12 or higher with the iOS HP Quick Drop app.

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