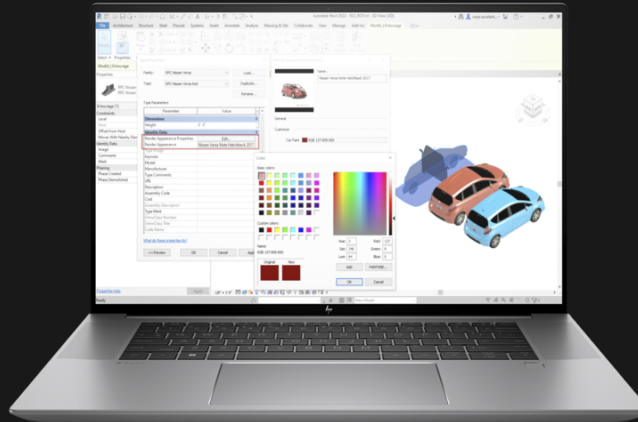


HP ZBook Studio 16 inch G10 Mobile Workstation PC

Powerfully immersive. Perfectly sized



Be ready when inspiration strikes. Packed with professional performance in an incredibly sleek PC that comfortably fits in your bag, the ZBook Studio is engineered to get you in the zone and help you stay focused. Now you can build complex assemblies, render in real time or visualize data—from anywhere.

Power to push the limits

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

Immerse in your work

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

Create and collaborate everywhere

Follow inspiration wherever it strikes with a thin and light laptop that delivers the power to run the software you need on the go. Work and collaborate effectively with a long-lasting battery, AI Noise Suppression⁵ and Wi-Fi 6E.⁶

A work laptop you'll want to game on

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



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Windows 11

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

Intel® Core™ Processor

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

NVIDIA® Graphics

With up to NVIDIA RTX™ 40000 Ada Laptop GPU or GeForce RTX™ 4080 Laptop GPU, accelerate rendering, graphics, and compute workflows to unlock new levels of productivity.²

Lightning-Fast Storage

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

Large Memory Configurations

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

HP DreamColor Display

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

Z Command Keyboard

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

Z Light Space

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

Easy Battery Management

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

HP Vaporforce Thermals

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

HP 16:10 Aspect Ratio

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

HP Context Aware

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



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Specifications Table

Available Operating Systems	Windows 11 Pro – HP recommends Windows 11 Pro ¹ Windows 11 Home – HP recommends Windows 11 Pro for Business ¹ Windows 11 Pro (preinstalled with Windows 10 Pro Downgrade) ^{1,2} Ubuntu 22.04 LTS FreeDOS 3.0
Processor family^{2,3,4,5,6,9}	13th Generation Intel® Core™ i9 processor; 13th Generation Intel® Core™ i7 processor; 13th Generation Intel® Core™ i5 processor
Available Processors^{2,3,4,5,6,9}	Intel® Core™ i9-13900H (1.9 GHz E-core base frequency, 2.6 GHz P-core base frequency, up to 4.1 GHz E-core Max Turbo frequency, up to 5.4 GHz P-core Max Turbo frequency, 24 L3 MB cache, 6 P-cores and 8 E-cores, 20 threads), supports Intel® vPro® Technology Intel® Core™ i7-13800H (1.8 GHz E-core base frequency, 2.5 GHz P-core base frequency, up to 4.0 GHz E-core Max Turbo frequency, up to 5.2 GHz P-core Max Turbo frequency, 24 MB L3 cache, 6 P-cores and 8 E-cores, 20 threads), supports Intel® vPro® Technology Intel® Core™ i7-13700H (1.8 GHz E-core base frequency, 2.4 GHz P-core base frequency, up to 3.7 GHz E-core Max Turbo frequency, up to 5.0 GHz P-core Max Turbo frequency, 24 MB L3 cache, 6 P-cores and 8 E-cores, 20 threads) Intel® Core™ i5-13600H (3.6 GHz E-core Max Turbo frequency, up to 4.8 GHz P-core Max Turbo frequency, 18 MB L3 cache, 4 P-cores and 8 E-cores, 16 threads), supports Intel® vPro® Technology
Maximum memory	64 GB DDR5-4800 non-ECC SODIMM; 64 GB DDR5-5600 non-ECC SODIMM ¹¹ Memory is SODIMM. Supports dual channel memory.
Memory slots	2 SODIMM; supports dual channel
Internal storage	512 GB up to 4 TB PCIe® Gen4 x4 NVMe™ M.2 SSD ¹⁰ 512 GB up to 1 TB PCIe® NVMe™ M.2 SED SSD ¹⁰
Maximum storage capacity	Up to 4 TB
Display size (diagonal)	16"
Display size (diagonal, metric)	40.6 cm (16")
Display^{15,16,27,29}	
Available Graphics	Integrated: Intel® Iris® Xe Graphics ^{18,20,22} Discrete: NVIDIA® GeForce RTX™ 4080 (12 GB GDDR6X dedicated) NVIDIA® GeForce RTX™ 4070 Laptop GPU (8 GB GDDR6 dedicated) NVIDIA RTX™ 4000 Ada Generation Laptop GPU (12 GB GDDR6 dedicated) NVIDIA RTX™ 3000 Ada Generation Laptop GPU (8 GB GDDR6 dedicated) NVIDIA RTX™ 2000 Ada Generation Laptop GPU (8 GB GDDR6 dedicated) NVIDIA RTX™ A1000 Laptop GPU (6 GB GDDR6 dedicated) ^{12,18,22,32}
Audio	Audio by Bang & Olufsen, Quad-speaker audio (2 tweeters & 2 Quad woofers), 2 Top Facing Microphone dual array digital microphones, functions keys for volume up and down, combo microphone/headphone jack, HD audio with 200Hz Bass Roll off
Memory card device ⁵⁹	1 microSD 7.1 media card reader
Ports and connectors	Left side: 1 power connector; 1 headphone/microphone combo; 2 Thunderbolt™ 4 with USB4™ Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4, HP Sleep and Charge) ¹² ; Right side: 1 Super Speed USB Type-A 5Gbps signaling rate (charging); 1 SuperSpeed USB Type-C® 10Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4) ¹²



HP ZBook Studio 16 inch G10 Mobile Workstation PC

Specifications Table

Keyboard	HP Premium Quiet Keyboard – spill-resistant, full-size, backlit keyboard with drain and DuraKeys; HP RGB Keyboard - Full-size, per-key RGB backlit keyboard; HP RGB Z Command Keyboard – spill-resistant, full-size, backlit keyboard with drain and DuraKeys ²⁴
Mouse	Clickpad with image sensor, supporting multi-touch gestures and taps
Communications	WLAN: Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card, vPro®; Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card, non-vPro®;
Camera	720p HD IR camera ^{16,17}
Software	Bing search for IE11 HP Hotkey Support HP Noise Cancellation Software HP Performance Advisor HP Support Assistant Native Miracast support HP Connection Optimizer myHP HP Privacy Settings Data Science Stack HP Easy Clean HP PC Hardware Diagnostics Windows 10 Cloud Recovery Client HP Z Light Space HP Camera & Super Resolution Software HP Services Scan Microsoft 365 and Office (sold separately and Internet access required for activation) HP Presence ^{21,25,28,30,31,33,51,52} Battery Health Manager ⁶⁰
Available software	HP Smart Support ¹⁹
Security management	Absolute persistence module; HP Credential Manager; HP Power On Authentication; Master Boot Record security; Pre-boot authentication; Windows Defender; HP Manageability Integration Kit; HP BIOSphere Gen6; HP Sure Start Gen6; HP Sure Admin; HP Image Assistant; Nano Security Lock Slot; HP Image Assistant Gen4.6; HP Client Security Manager Gen7; Trusted Platform Module TPM 2.0; HP Privacy Key ^{8,34,35,37,38,39,43,49} ; HP Tamper Lock (select models)
Security Software Licenses	HP Wolf Pro Security Edition ⁵⁶
Fingerprint reader	Fingerprint sensor (select models)
Management features	HP Power Manager ¹³
Power	HP Slim Smart 150 W External AC power adapter; HP Slim Smart 200 W External AC power adapter ⁴⁸
Battery type	HP Long Life 6-cell, 86 Wh Li-ion polymer ^{26,47}
Battery recharge time	Supports battery fast charge: approximately 50% in 30 minutes
Dimensions	35.6 x 24.2 x 1.9 cm (non-touch); 35.6 x 24.2 x 1.8 cm (touch); 552 x 69 x 345 mm (Package)
Weight	Starting at 1.73 kg; (Weight varies by configuration and components.)
Ecolabels	EPEAT® Gold registered in the U.S. ⁴⁵
Sustainable impact specifications	Low Halogen ⁴⁶
Warranty	1 year (1/1/0) limited warranty includes 1 year of parts and labor. No on-site repair. Terms and conditions vary by country. Certain restrictions and exclusions apply.



HP ZBook Studio 16 inch G10 Mobile Workstation PC

Accessories and services (not included)

HP Nano Keyed Cable Lock



Lock your notebook or tablet down in the office and high-traffic public areas by tethering it to a secure surface with the thin profile HP Nano Keyed Cable Lock.
Product number: 1AJ39AA



HP ZBook Studio 16 inch G10 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/or naming is not a measurement of higher performance.
- ² Optional feature that must be configured at purchase.
- ³ RGB keyboard is an optional feature that must be configured at purchase. Available in the US, UK, Germany and France only.
- ⁴ 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 MobileMark18 battery benchmark <https://bapco.com/products/mobilemark-2018/> for additional details.
- ⁵ AI Noise Reduction is delivered automatically through Windows update or can be downloaded from <https://support.hp.com/us-en/drivers> when available. Requires Windows 10 or higher, compatible with internal PC speakers, microphone and analog headsets. The DNN Noise Reduction setting can be configured through the Application HP Audio Control.
- ⁶ Wi-Fi 6E is an optional feature that must be configured at purchase. Wi-Fi 6E router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 6E is backwards compatible with prior 802.11 specs. And available in countries where Wi-Fi 6E is supported.
- ⁷ Z Light Space requires Windows 10 or higher.
- ⁸ RGB keyboard is an optional, configurable feature. Available only in the US, UK, Germany and France only.
- ⁹ MIL STD testing is not intended to demonstrate fitness for U.S. Department of Defense contract requirements or for military use. Test results are not a guarantee of future performance under these test conditions. Accidental Damage or damage under these test conditions requires an optional HP Accidental Damage Protection Care Pack.
- ¹⁰ 64GB Memory is an optional, configurable feature.
- ¹¹ Memory is an optional, configurable feature.
- ¹² 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>.
- ¹³ For full Intel® vPro® functionality, Windows 10 Pro 64 bit, a vPro supported processor, vPro enabled chipset, vPro enabled wired LAN and/or WLAN card and TPM 2.0 are required. Some functionality requires additional 3rd party software in order to run. See <http://intel.com/vpro>.
- ¹⁴ For storage 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.
- ¹⁵ Optional, configurable feature.
- ¹⁶ Up to 64GB memory is an optional, configurable feature.
- ¹⁷ Z Command Keyboard is an optional, configurable feature. Available only with the RGB keyboard and in the US, UK, Germany and France only.
- ¹⁸ Software sold separately
- ¹⁹ Applies to HP PCs, Workstations and Displays manufactured after January 2019. Based on most Gold and Silver EPEAT® registrations by meeting all required criteria and achieving 50-74% of the optional points for EPEAT® Silver and 75-100% of the optional points for EPEAT® Gold according to IEEA 1680.1-2018 EPEAT®. Status varies by country. Visit www.epeat.net for more information.
- ²⁰ The HP custom vapor chamber (HP Vaporforce) is only available on configurations with NVIDIA RTX™ A3000 Laptop GPU and higher GFX.
- ²¹ HP Context Aware requires Windows 10 or higher and an Intel processor.
- ²² 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.
- ²³ All specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.
- ²⁴ HP Power Manager requires Windows 10 and higher and can be downloaded from the Microsoft Store.
- ²⁵ HP conferencing features require Windows and the latest myHP app, available over the air or for download via sofaq on the HP Support website. Planned availability in spring 2023.

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 <http://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 Intel vPro® requires Windows 10 Pro 64 bit or higher, a vPro supported processor, vPro enabled chipset, vPro enabled wired LAN and/or Wi-Fi 6E WLAN and TPM 2.0. Some functionality requires additional 3rd party software in order to run. Features of vPro® Essentials and Enterprise vary. See <http://intel.com/vpro>
- ⁷ HP Tamper Lock is an optional feature that must be configured at the factory and requires a supervisor password be established prior to use.
- 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.
- ⁹ For storage 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.
- ¹⁰ Due to the non-industry standard nature of some third-party memory modules, we recommend HP branded memory to ensure compatibility. If you mix memory speeds, the system will perform at the lower memory speed.
- ¹¹ Multi-Function USB-C port works with Discrete Graphics and Intel(r) Iris Xe Graphics. Note: For Nvidia Discrete Gfx, it can support HDMI 2.1 except GPU of QN20-P1 SKU(HDMI2.0 support).
- ¹² Manage and monitor your battery's performance and condition and customize charging options with the easy-to-use HP Power Manager dashboard.
- ¹³ Wi-Fi 6E requires a Wi-Fi 6E router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 6E is backwards compatible with prior 802.11 specs. And available in countries where Wi-Fi 6E is supported.
- ¹⁴ UHD content required to view UHD images.
- ¹⁵ HD content required to view HD images.
- ¹⁶ 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.
- ¹⁷ Both UMA and Discrete configurations support 4 independent displays (both Intel and NVIDIA Graphic cards, UMA/DIS mode need to close lid or only 3 displays max are supported externally. Max. resolution = 8K@60Hz (miniDP) 4K@60Hz (Type-C output port using a Type C-to-DP adapter), 4K@60Hz (Type-C output port using a Type C-to-DP adapter), OR 4K @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).
- ¹⁸ HP Smart Support automatically collects the telemetry necessary upon initial boot of the product to deliver device-level configuration data and health insights and is available preinstalled on select products, thru HP Factory Configuration Services; or it can be downloaded. For more information about how to enable HP Smart Support or for download, please visit <http://www.hp.com/smart-support>.
- ¹⁹ 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.
- ²⁰ HP Services Scan is provided with Windows Update on select products and will check entitlement on each hardware device to determine if an HP TechPulse-enabled service has been purchased, and will download applicable software automatically. HP TechPulse is a telemetry and analytics platform that provides critical data around devices and applications. For full system requirements or to disable this feature, please visit <http://www.hpdas.com/requirements>. Not applicable in China.
- ²¹ GPU configurations may be limited to specific GPU/ Memory Configurations
- ²² HP RGB Z Command Keyboard only available in the US, UK, France, and Germany. Not available with Privacy Panel.
- ²³ Data Science Stack is available on select skus only.
- ²⁴ For new batteries, actual battery Watt-hours (Wh) may differ from the design capacity and may have a full charge capacity that differs by up to 10, which is typical for lithium-ion batteries. Battery capacity naturally decreases over time and with use, depending on several factors such as battery health management settings, shell life, temperature, environment, loaded apps, features, system configuration, and power settings.
- ²⁵ Display options may be limited to specific CPU / GPU Configurations.
- ²⁶ HP Z Light space is an optional feature, requires Windows 10 or higher and must be configured at hardware purchase.
- ²⁷ Resolutions are dependent upon monitor capability, and resolution and color depth settings.
- ²⁸ Available on select HP PCs with Windows 10 and higher and Intel processors.
- ²⁹ 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>.
- ³⁰ Others NVIDIA dGPU: Support HD decode, DX12, HDMI 2.1, mDP 1.4, HDCP 2.3 via DP up to 5K@60Hz(W/o DSC) or 8K@60(W/HD DSC and requires 2 display heads) and via HDMI up to 8K @ 60Hz(With DSC and requires 2 display heads)
- ³¹ HP Connection Optimizer requires Windows 10.
- ³² HP BIOSphere Gen6 features may vary depending on the platform and configuration.
- ³³ Absolute agent is shipped turned off, and will be activated when customers activate a purchased subscription. Subscriptions can be purchased for terms ranging multiple years. Service is limited, check with Absolute for availability outside the U.S. The Absolute Recovery Guarantee is a limited warranty. Certain conditions apply. For full details visit: <http://www.absolute.com/company/legal/agreements/computrace-agreement>. Data Delete is an optional service provided by Absolute Software. If utilized, the Recovery Guarantee is null and void. In order to use the Data Delete service, customers must first sign a Pre-Authorization Agreement and either obtain a PIN or purchase one or more RSA SecurID tokens from Absolute Software.
- ³⁴ HP Manageability Integration Kit can be downloaded from <http://www.hp.com/go/clientmanagement>.
- ³⁵ Security lock for security slot is sold separately.
- ³⁶ HP Client Security Manager Gen7 requires Windows and is available on the select HP Elite and Pro PCs.
- ³⁷ HP Sure Start Gen6 is available on select HP PCs.
- ³⁸ Based on US EPEAT® registration according to IEEA 1680.1-2018 EPEAT®. EPEAT® status varies by country. Visit www.epeat.net for more information.
- ³⁹ External power supplies, power cords, cables and peripherals are not low halogen. Service parts obtained after purchase may not be low halogen.
- ⁴⁰ HP Fact Charge recharges 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.
- ⁴¹ 150W Power Adapter is not available with Nvidia RTX™ Graphics
- ⁴² HP Sure Admin requires Windows 10 or higher, 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.
- ⁴³ HP Easy Clean requires Windows 10 RS3 and will disable the keyboard, touchscreen, and clickpad only. Ports are not disabled. See user guide for clean.
- ⁴⁴ Select HP Products are enhanced with HP Presence. Features vary by platform. HP conferencing features require Windows and the latest myHP app, available over the air or for download via sofaq on the HP Support website. Planned availability in spring 2023.
- ⁴⁵ HP Wolf Pro Security Edition is available preloaded on select SKUs, and, depending on the HP product purchased, includes a license with a term length communicated to you at purchase and in your order confirmation email. The HP Wolf Pro Security Edition software is licensed under the license terms of the HP Wolf Security Software - End-User license Agreement (EULA) that can be found at: https://support.hp.com/us-en/document/ish_3875769-3873014-16 as that EULA is modified by the following: 7. Term. Unless otherwise terminated earlier pursuant to the terms contained in this EULA, the license for the HP Wolf Pro Security Edition is effective upon 4 months after the date the HP Product was shipped by HP and will continue for the term communicated to you at purchase and in your order confirmation email ("Initial Term"). At the end of the Initial Term you may either (a) purchase a renewal license for the HP Wolf Pro Security Edition from HP.com, HP Sales or an HP Channel Partner, or (b) continue using the standard versions of HP Sure Click and HP Sure Sense at no additional cost with no future software updates or HP Support. Notwithstanding the foregoing, the license shall expire no later than one year after the fixed term of the subject license ends.
- ⁴⁶ MicroSD 7.1 media reader supports SD 4.0 cards at SD 3.0 speeds with any SD 7.0 host. SD 7.0 card availability is expected later in 2022.

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