

# HP ProBook 4 G1ah 16 inch Notebook PC

## Excel with cutting-edge, durable AI laptop performance

Experience advanced tech to help drive AI workstyles, security, and longevity. This HP ProBook 4 G1ah 16-inch Notebook AI PC easily expands with a 2nd SSD<sup>3</sup> and port options<sup>4</sup> and ease-of-use with 16:10 aspect ratio<sup>5</sup> and a large keyboard and trackpad.

### Maximize performance with advanced features

Grow your business, managing tasks efficiently, with up to an AMD Ryzen™ R7 processor.<sup>2,4</sup> Unlock AI-powered workflows with a 16 TOPS NPU<sup>6</sup>, integrated AMD Radeon™ graphics<sup>4</sup>, a 2nd SSD option<sup>3</sup>, and upgradeable storage and memory.

### Hybrid productivity unleashed

Adapt to varied workstyles for easy-to-use comfort. With a 16:10 aspect ratio<sup>5</sup> on a 16-inch display and large keyboard and touchpad, get an enhanced productivity experience within a compact, modern design, whether working at home or in the office.

### Enterprise-level security, simplified

Safeguard your business from malware and hacking with next-gen antivirus. Multi-layered security application isolation and deep learning features work with management tools to streamline security, hardware, and BIOS tasks to help protect your PC.<sup>7</sup>

\*Product image may differ from actual product

## Sustainability in action

### Help protect our shared future

The ProBook 4 G1ah Notebook PC contains 50% post-industrial recycled aluminum in the cover<sup>8</sup>, uses 100 percent HP paper-based packaging from recycled or certified sustainable sources<sup>9</sup>, and uses AC current sensors to gauge power consumption.



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## Featuring

### HP recommends Windows 11 Pro for business

Work anywhere without compromising on performance with Windows 11<sup>1</sup> and HP collaboration, security, and connectivity technology. Summarize and rewrite content, get relevant content recommendations, and stay organized with Microsoft Copilot.<sup>11</sup>

### Unleash AI Power with an AMD Ryzen™ processor

Experience lightning-fast AI performance and seamless multi-tasking with up to an AMD Ryzen™ 7 processor.<sup>2,4</sup> With 16 TOPS<sup>6</sup>, enjoy enhanced efficiency, superior graphics, and extended battery life. Perfect for power users in place or on the go.

### Protected by HP Wolf Security

HP Wolf Security for Business<sup>7</sup> creates a hardware-enforced, always-on, resilient defense. From the BIOS to the browser, above, in, and below the OS, these constantly evolving solutions help protect your PC from modern threats.

### Capture all the details with a UHD brilliant display

Choose a crystal-clear WUXGA resolution display with 300 nits of brightness<sup>4,12,13</sup> or an ultra-crisp WQXGA with 400 nits.<sup>4,12,13</sup> Combined with Low Blue Light<sup>4</sup> and touchscreen<sup>4,13</sup>, this display provides a sharp, immersive viewing experience.

### Meet performance needs with an upgradeable DDR5 SO-DIMM slot

Elevate your laptop's effectiveness with up to 32GB dual channel memory.<sup>4</sup> Easily upgrade and maintain memory to meet the growing demands of your business.

### Stay connected with fast and efficient Wi-Fi 7

The portability of your PC and the reliability of a fast connection determines where you can work. Get a swift, reliable connection in dense wireless environments with gigabit data rate Wi-Fi 7.<sup>4,14,15</sup>

### Performance improvements for HP security solutions

Enable hardware-enforced, self-healing security solutions with the HP Endpoint Security Controller<sup>16</sup> and device identity. Cryptographically protected hardware helps protect against quantum computer attacks and creates a root of trust.

### Enhanced viewing experience

Push the limits of performance with this laptop's thin and light chassis and 16-inch display. Featuring a 16:10 aspect ratio<sup>5</sup>, allowing you to see more vertical content in a surprisingly small footprint while reducing the need to scroll.

### Make connections that matter

Let your audience see you clearly with an FHD<sup>4</sup> camera or the optional 5MP + IR camera, featuring Temporal Noise Reduction and ISP.<sup>4</sup> Together with speakers tuned by Poly Studio, help ensure exceptional visual and audio clarity and definition.

### Find, lock, or erase a lost PC

Losing an important PC can cost much more than money. Help mitigate risk and reduce those costs with optional HP Wolf Security Protect and Trace with Wolf Connect. Now you have a comprehensive way to locate, lock, and erase a PC in any power state.<sup>17,18</sup>

### Work longer, Charge faster

Long battery life can get you through a day of meetings without plugging in. Quickly recharge your laptop with HP Fast Charge. You'll get up to 50% battery life in just 30 minutes of charging.<sup>19</sup>

### A modern universal docking solution

Quickly transition to desktop productivity with two multi-function USB Type-C® ports. Simply connect with USB-C® cables<sup>20</sup> from your laptop to your displays and other peripherals.



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## Technical specifications

Available Operating Systems	Windows 11 Pro <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> FreeDOS
Processor family	AMD Ryzen™ AI 7 processor AMD Ryzen™ AI 5 processor AMD Ryzen™ 5 processor AMD Ryzen™ 3 processor
Available Processors <sup>2,3,4</sup>	AMD Ryzen™ 7 250 (3.3 GHz base clock, up to 5.1 GHz max boost clock, 16 MB L3 cache, 8 cores, 16 threads) with AMD Radeon™ Graphics and AMD Ryzen™ AI (16 NPU TOPS) AMD Ryzen™ 5 230 (3.5 GHz base clock, up to 4.9 GHz max boost clock, 16 MB L3 cache, 6 cores, 12 threads) with AMD Radeon™ Graphics and AMD Ryzen™ AI (16 NPU TOPS) AMD Ryzen™ 5 220 with AMD Radeon™ Graphics (up to 4.9 GHz max boost clock, 16 MB L3 cache, 6 cores, 12 threads) AMD Ryzen™ 3 210 with AMD Radeon™ Graphics (up to 4.7 GHz max boost clock, 8 MB L3 cache, 4 cores, 8 threads)
Neural Processing Unit	AMD Ryzen™ AI <sup>4</sup>
Product colour	Pike silver
Maximum memory	48 GB DDR5-5600 MT/s; (Transfer rates up to 5600 MT/s.) Both slots are accessible/upgradeable by IT or self-maintainers only. Supports dual channel memory. <sup>5</sup>
Memory slots	2 SODIMM
Internal storage	256 GB up to 1 TB PCIe® NVMe™ M.2 SSD <sup>6</sup> 256 GB PCIe® NVMe™ M.2 SSD <sup>6,7</sup>
Display size (diagonal, metric)	40.6 cm (16")
Display <sup>14,15,16,17</sup>	16" diagonal, WUXGA (1920 x 1200), IPS, anti-glare, 400 nits, low power, 100% sRGB with HP Eye Ease; 16" diagonal, WOXGA (2560 x 1600), IPS, anti-glare, 400 nits, low power, 100% sRGB with HP Eye Ease; 16" diagonal, WUXGA (1920 x 1200), touch, IPS, anti-glare, 300 nits, 62.5% sRGB; 16" diagonal, WUXGA (1920 x 1200), IPS, anti-glare, 300 nits, 62.5% sRGB  40.6 cm (16") diagonal, WUXGA (1920 x 1200), IPS, anti-glare, 400 nits, low power, 100% sRGB with HP Eye Ease; 40.6 cm (16") diagonal, WOXGA (2560 x 1600), IPS, anti-glare, 400 nits, low power, 100% sRGB with HP Eye Ease; 40.6 cm (16") diagonal, WUXGA (1920 x 1200), touch, IPS, anti-glare, 300 nits, 62.5% sRGB; 40.6 cm (16") diagonal, WUXGA (1920 x 1200), IPS, anti-glare, 300 nits, 62.5% sRGB
Available Graphics	Integrated: AMD Radeon™ Graphics (Support DX12 and HDMI 2.1.)
Audio	Audio by Poly Studio, dual stereo speakers, dual array microphones
Ports and connectors	1 HDMI 2.1; 1 stereo headphone/microphone combo jack; 1 RJ-45; 1 security lock slot; 2 USB Type-A 5Gbps signaling rate (powered); 2 USB Type-C® 10Gbps signaling rate (USB Power Delivery 3.0, DisplayPort™ 1.4) ; (Cables are not included.)
Input devices	Spill-resistant, with numeric keypad, optional backlit keyboard and DuraKeys <sup>51</sup> ; Clickpad with multi-touch gesture support; Microsoft Precision Touchpad; HP Sure Platform; Thermal sensor; HP Tamper Lock; Hall effect sensor <sup>14</sup>
Communications	(Compatible with Miracast-certified devices. <sup>11</sup> ); ; Realtek RTL8111HSH-CG GbE; Realtek RTL8111EPP 1 GbE Ethernet Controller <sup>12,14</sup> ; Realtek Wi-Fi 6E RTL8852CE 802.11a/b/g/n/ax (2x2) and Bluetooth® 5.3 wireless card; MediaTek Wi-Fi 6E RZ616 (2x2) and Bluetooth® 5.3 wireless card; MediaTek Wi-Fi 7 MT7925 (2x2) and Bluetooth® 5.4 wireless card ; HP 4G LTE Advanced Pro Cat 16 WWAN eSIM
Camera	FHD camera (select models); 5 MP IR camera (select models) <sup>14</sup>
Software	Buy Microsoft Office (sold separately); Edge Customization; HP Connection Optimizer; HP Hotkey support; HP MAC Address Manager; HP Notifications; HP UEFI BIOS Certification level 2.8; HP PC Hardware Diagnostics Windows; HP Privacy Settings; HP Services Scan <sup>19</sup> ; HP Smart Support <sup>20</sup> ; HP Support Assistant <sup>21</sup> ; myHP; HSA Fusion for Commercial; HSA Telemetry for Commercial; Poly Camera Pro; Poly Lens <sup>22</sup> ; Copilot in Windows with Copilot key <sup>30</sup>
Security management	HP Sure Admin <sup>31</sup> ; HP Sure Click <sup>32</sup> ; HP Sure Recover <sup>33</sup> ; HP Sure Run <sup>34</sup> ; HP Sure Sense <sup>35</sup> ; HP Sure Start <sup>36</sup> ; HP Tamper Lock; Secured-Core PC Enable; TPM 2.0 Embedded Security Chip (Common Criteria EAL4+ Certified) (FIPS 140-2 Level 2 Certified); Absolute Persistence Module <sup>37</sup> ; Audio Permanent Disable; HP BIOS Recovery; BIOS Update via Network; HP BIOSphere <sup>38</sup> ; HP DriveLock and Automatic DriveLock; HP Secure Erase <sup>39</sup> ; HP Wake on WLAN; Windows Hello Enhanced Sign-in Security (ESS) Enable
Security Software Licenses	HP Wolf Pro Security Edition <sup>56</sup>
Fingerprint reader	Fingerprint sensor (select models)



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## Technical specifications

Management features	HP Client Catalog (download) <sup>23</sup> ; HP Client Management Script Library (download) <sup>24</sup> ; HP Cloud Recovery <sup>25</sup> ; HP Connect for Microsoft Endpoint Manager; HP Driver Packs (download) <sup>26</sup> ; HP Image Assistant (download) <sup>27</sup> ; HP Manageability Integration Kit (download) <sup>28</sup> ; HP Power Manager with Battery Health Manager (download) <sup>29</sup>
Memory card device	1 nano SIM (optional)
Power	65 W USB Type-C® adapter; HP 100 W USB Type-C® slim adapter; HP 65 W USB Type-C® Halogen-free adapter <sup>43</sup>
Battery type	HP Long Life 3-cell, 56 Wh Li-ion polymer; HP Long Life 3-cell, 48 Wh Li-ion polymer <sup>41</sup> ; Battery is internal and not replaceable by customer. Serviceable by warranty. Fast charging 50% in 30 minutes. <sup>42</sup>
Dimensions	14.15 x 9.88 x 0.43 in (front); 14.15 x 9.88 x 0.67 in (rear); 35.94 x 25.1 x 1.7 cm (rear); 35.94 x 25.1 x 1.09 cm (front); (Front height measurement is near the front edge where the chassis bottom cover taper begins. Back height measurement is near the back edge where the chassis bottom cover taper ends.)
Weight	Starting at 3.86 lb; Starting at 1.75 kg; (Weight will vary by configuration. Does not include power adapter.)
Ecolabels	EPEAT® registered configurations available; TCO Certified configurations available; EPEAT® Gold registered in the U.S. <sup>18</sup>
Certification and compliance	CECP; GS Mark; CSA/UL 62368-1; FCC/ICES/CISPR/VCCI; CE Marking; China CCC/SRRC; Taiwan BSMI/NCC; Korea KCC/KC/KES; Ukraine NSoC/TEC; EAEU Compliance; Saudi Arabian Compliance; Low blue light; WW RoHS; MIL-STD 810H
Sustainable impact specifications	Low halogen; Bulk packaging available; 25% post-consumer recycled plastic; 50% ocean-bound plastic; 50% recycled metal; 100% of HP paper-based packaging is from recycled or certified sustainable sources
Warranty	1-year warranty and 90 day software limited warranty options depending on country. Batteries have a default one year limited warranty. On-site service and extended coverage is also available. HP Care Pack Services are optional extended service contracts that go beyond the standard limited warranties. To choose the right level of service for your HP product, use the HP Care Pack Services Lookup Tool at: <a href="http://www.hp.com/go/cpc">http://www.hp.com/go/cpc</a> .



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## Footnotes

### Messaging Footnotes

<sup>2</sup> 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. AMD's numbering is not a measurement of clock speed.

<sup>3</sup> Optional feature that must be configured at the time of purchase. Second SSD option available in select markets only.

<sup>4</sup> Optional feature that must be configured at the time of purchase.

<sup>5</sup> All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

<sup>6</sup> Features and software that require an NPU may require software purchase, subscription or enablement by a software or platform provider, and third-party software may have specific configuration or compatibility requirements. Performance varies by use, configuration, and other factors.

<sup>7</sup> HP Wolf Security for Business requires Windows 10 and higher, includes various HP security features and is available on HP Pro, Elite, Workstation, and RPOS products. See product details for included security features and OS requirements.

<sup>8</sup> Recycled metal is expressed as a percentage of the total weight of the metal according to ISO 14021 definitions for metal parts over 25 grams.

<sup>9</sup> HP paper and fiber based packaging for PCs, displays, home and office print, and supplies is reported by suppliers as recycled or certified, with a minimum of 97% by volume verified by HP. Packaging is the box that comes with the product and all paper-based materials inside the box. Packaging for personal systems accessories and spare parts is not included.

<sup>1</sup> 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 11 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> .

<sup>11</sup> May require Windows Update or app download from the Microsoft Store. Microsoft Copilot is NOT available in China, Russia, Belarus, and embargoed regions Cuba, Iran, North Korea, Crimea.

<sup>12</sup> WUXGA (1920x1200) or WQXGA (2560x1600) content required to view WUXGA or WQXGA images.

<sup>13</sup> Touchscreen will reduce actual brightness.

<sup>14</sup> Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 7 (802.11BE) functionality requires compatible Windows 11 OS, compatible processor, and separately purchased Wi-Fi 7 router to support backwards compatibility with prior 802.11 specs. Available in countries where Wi-Fi 7 is supported. The specification for 802.11BE is a draft specification and is not final. If the final specification differs from the draft specification, it may affect the ability of the device to communicate with other 802.11BE devices.

<sup>15</sup> Wi-Fi® supporting gigabit data rate is achievable with Wi-Fi 7 (802.11BE) when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 160MHz channels.

<sup>16</sup> Requires Windows 10 or higher. For supported HP PCs with the latest HP Endpoint Security Controller (Gen 5). See <https://h20195.www2.hp.com/v2/GetDocument.aspx?docname=4AA8-3644ENW> .

<sup>17</sup> Service not available in all countries. Cellular service worldwide is limited to areas that Wolf Connect has service available. To learn more about solution service coverage, visit <https://www.hpwolf.com/en/legal/ptwc/countries> .

<sup>18</sup> HP Protect & Trace with Wolf Connect is available on select HP commercial G10 and G11 laptops and mobile workstation devices and requires HP Workforce Central registration, available at <https://admin.hp.com>. Devices with a mobile narrowband card (MNB) do not support Internet access. Internet service for devices with 4G LTE and 5G modules is not included and must be purchased separately. Wolf Connect. Service not available in all countries.

### Specification Footnotes

<sup>1</sup> 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 11 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> .

<sup>2</sup> 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. AMD's numbering is not a measurement of clock speed.

<sup>3</sup> Max Boost clock frequency performance varies depending on hardware, software and overall system configuration.

<sup>4</sup> Features and software that require an NPU may require software purchase, subscription or enablement by a software or platform provider, and third-party software may have specific configuration or compatibility requirements. Performance varies by use, configuration, and other factors.

<sup>5</sup> 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.

<sup>6</sup> For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 32 GB is reserved for system recovery software.

<sup>7</sup> Optional feature that must be configured at the time of purchase. Second SSD option available in select markets only.

<sup>8</sup> 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.

<sup>9</sup> Wi-Fi 6E is designed to support gigabit data rate when transferring files between two devices connected to the same router. Requires a wireless router, sold separately.

<sup>10</sup> Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 7 (802.11BE) functionality requires compatible Windows OS, select processor, and a Wi-Fi 7 router, sold separately. Wi-Fi 7 is backwards compatible with prior 802.11 specs. Available in countries where Wi-Fi 7 is supported. The specification for 802.11BE is a draft specification and is not final. If the final specification differs from the draft specification, it may affect the ability of the device to communicate with other 802.11BE devices.

<sup>11</sup> Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming.

<sup>12</sup> 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.

<sup>13</sup> 4G LTE module is optional, must be configured at the factory, 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. 4G LTE not available on all products, in all regions.

<sup>14</sup> Optional feature that must be configured at the time of purchase.

<sup>15</sup> Resolutions are dependent upon monitor capability, and resolution and color depth settings.

<sup>16</sup> Actual brightness will be lower with touchscreen.

<sup>17</sup> All specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

<sup>18</sup> Based on US EPEAT® registration according to IEEE 16801-2018 EPEAT®. EPEAT® status varies by country. Visit <http://www.epeat.net> for more information.

<sup>19</sup> HP Services Scan is preinstalled and/or provided thru Windows Update and checks for service entitlement on each hardware device and downloads the applicable software agent automatically. To disable this feature, please follow the instructions at <http://www.hpdaas.com/requirements>. The HP Insights agent is a telemetry and analytics platform that provides critical data around devices and applications and is not sold as a standalone service. HP follows stringent GDPR privacy regulations and is ISO27001, ISO27701, ISO27017 and SOC2 Type2 certified for Information Security. Internet access with connection to the HP Insights agent is required. For full system requirements, please visit <http://www.hpdaas.com/requirements>. Not available in China.

<sup>20</sup> HP Smart Support requires the HP Insights agent to be installed. For more information about how to enable or to download HP Smart Support, please visit <http://www.hp.com/smart-support>. HP Services Scan is preinstalled and/or provided thru Windows Update and will check entitlement on each hardware device to determine if an HP Insights agent-enabled service has been purchased, and will download applicable software automatically. HP Insights agent is a telemetry and analytics platform that provides critical data around devices and applications and is not sold as a standalone service. HP follows stringent GDPR privacy regulations and is ISO27001, ISO27701, ISO27017 and SOC2 Type2 certified for Information Security. Internet access is required. For full system requirements or to disable this feature, please visit <https://www.hpdaas.com/requirements> .

<sup>21</sup> HP Support Assistant is available on Windows. For more information, please visit [www.support.hp.com/help/hp-support-assistant](http://www.support.hp.com/help/hp-support-assistant) .

<sup>22</sup> Poly Lens Desktop requires a Windows OS.

<sup>23</sup> HP Client Catalog not preinstalled, however available for download at (<https://www.hp.com/us-en/solutions/client-management-solutions.html>)

<sup>24</sup> HP Client Management Script Library (<https://www.hp.com/us-en/solutions/client-management-solutions.html#tab=manageability-tools>).

<sup>25</sup> HP Cloud Recovery is available for Z by HP, HP Elite and Pro desktops and laptops PCs with Intel® or AMD processors and requires an open, network connection. Note: You must back up important files, data, photos, videos, etc. before use to avoid loss of data. Detail please refer to: <https://support.hp.com/us-en/computer> .

<sup>26</sup> HP Driver Packs not preinstalled, however available for download at <http://www.hp.com/go/clientmanagement> .

<sup>27</sup> HP Image Assistant not preinstalled, however available for download at (<https://ftp.ext.hp.com/pub/caps-softpaq/cmit/HPIA.html>)

<sup>28</sup> HP Manageability Integration Kit not presintalled, however available for downloaded from <https://www.hp.com/us-en/solutions/client-management-solutions.html#tab=manageability-tools> .

<sup>29</sup> HP Power Manager with Battery Health can be downloaded by entering your system information here: [https://support.hp.com/in-en/document/ish\\_4449597-351950746](https://support.hp.com/in-en/document/ish_4449597-351950746) .

<sup>30</sup> Copilot+ in Windows requires Windows 11. Some features require an NPU. Timing of feature delivery and availability varies by market and device. Requires Microsoft account to log in. Where Microsoft in Windows is not available, the Copilot key will lead to the Bing search engine. See [aka.ms/copilotpluspcs](https://aka.ms/copilotpluspcs) .

<sup>31</sup> HP Sure Admin requires HP G8 or newer platforms, Windows 10 or higher, HP BIOS, HP Manageability Kit or KMS Service from <http://www.hp.com/go/clientmanagement> and HP Sure Admin Local Access Authenticator smartphone app from the Android or Apple store.

<sup>32</sup> HP Sure Click requires Windows 10 and higher. See <https://bit.ly/2PrLT6A> , SureClick for complete details.

<sup>28</sup> HP Sure Recover is available on select HP PCs and requires Windows 10 or 11 and an open network connection. You must back up important files, data, photos, videos, etc. before using HP Sure Recover to avoid loss of data. HP Sure Recover Gen6 with Embedded Reimaging is an optional feature on select HP PCs which requires Windows 10 or 11 must be configured at purchase. You must back up important files, data, photos, videos, etc. before use to avoid loss of data.

<sup>34</sup> HP Sure Run is available on select HP PCs and requires Windows 10 and higher.

<sup>35</sup> HP Sure Sense requires Windows 10 and higher. See product specifications for availability. On units with WWAN shipping to China, HP Sure Sense is only available via Softpaq download.

<sup>36</sup> HP Sure Start is available on select HP PCs and requires Windows 10 and higher.

<sup>37</sup> Absolute Persistence firmware module is shipped turned off and can only be activated with the purchase a license subscription and full activation of the software agent. License subscriptions can be purchased for terms ranging multiple years. Service is limited, check with Absolute for availability outside the U.S. Certain conditions apply. For full details visit: <https://www.absolute.com/about/legal/agreements/absolute/> .

<sup>38</sup> HP BIOSphere features may vary depending on the platform and configuration.

<sup>39</sup> HP Secure Erase implements the methods outlined in the National Institute of Standards and Technology Special Publication 800-88r ""Clear"" sanitation method. HP Secure Erase does not support platforms with Intel® Optane™.

<sup>40</sup> HP Fingerprint Reader is an optional feature that requires Windows 10 or 11 and must be configured at purchase.

<sup>41</sup> 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, shelf life, temperature, environment, loaded apps, features, system configuration, and power settings.

<sup>42</sup> Recharges your 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.

<sup>43</sup> Availability may vary by country.

<sup>51</sup> Backlit keyboard is an optional feature.

<sup>56</sup> HP Wolf Security for Business requires Windows 10 or 11 Pro or higher, includes various HP security features and is available on HP Pro, Elite, RPOS and Workstation products. See product details for included security features.

