

# HP ProBook 4 G2ah 14 inch Notebook PC

A traditional, compact PC built for modern hybrid workflows

Boost your business productivity with the HP ProBook 4 G2a 14-inch Notebook PC. Enjoy fast performance, professional-grade security, reliable battery in a traditional PC built for managing tasks and teams across locations as your business grows.

**Reliable power. Agile performance. Cost conscious.**

Manage tasks and workflows anywhere with swift performance, professional-grade security, and power that travels in a traditional, cost-optimized PC.

**Get a crystal-clear view of your workflow**

See your work with elevated clarity on a 14-inch diagonal display with sharp resolution and striking color accuracy.

**HP BIOS and Wolf Security**

Fortify your most essential data with built-in, multi-layered protection from HP Wolf Security for Business.<sup>5</sup>



\*Product image may differ from actual product

## Sustainability in action

**Help protect our shared future**

Designed with responsibility in mind, this PC is built with 50% recycled aluminum<sup>6</sup> in outside covers and is EPEAT Climate+ Gold registered<sup>7</sup> and ENERGY STAR<sup>®</sup> certified<sup>8</sup>, all shipped in 100% sustainably sourced or recycled packaging.<sup>9</sup>



# HP ProBook 4 G2a 14 inch Notebook PC

## Featuring

### Compact, capable and upgradeable

Scale your success on the HP ProBook 4 G2a 14-inch Notebook with quick processing and dependable performance powered by AMD Ryzen 3 or Ryzen 5<sup>2</sup>, combined with easy upgrades into a compact design that keeps your business moving forward.

### Own the screen for virtual conferencing

Impress in every video call and show off exciting ideas from any stage with crystal-clear audio from dual studio mics and studio-quality speakers, plus an optional 5MP+IR camera<sup>4</sup> that keeps you centered so you can command attention.

### HP Wolf Security for Business

Stay focused on work, not threats, so you can be connected and engaged even on the move. HP Wolf Security for Business<sup>5</sup> delivers built-in BIOS-level protection, TPM 2.0, and even offers optional fingerprint sensor<sup>4</sup> to safeguard your data.

### Help protect our shared future

Designed with responsibility in mind, this PC is built with 50% recycled aluminum<sup>6</sup> in outside covers and is EPEAT Climate+ Gold registered<sup>7</sup> and ENERGY STAR<sup>®</sup> certified<sup>8</sup>, all shipped in 100% sustainably sourced or recycled packaging.<sup>9</sup>

### HP Recommends Windows 11 Pro for business with Microsoft Copilot

Work 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>10</sup>

### Commanding AMD processor

Take on your work with an efficient and reliable AMD Ryzen<sup>®</sup> processor<sup>2</sup> with Thermal Design Power (TDP) that provides a highly responsive experience.

### Protected by HP Wolf Security

HP Wolf Security for Business<sup>5</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.

### Elegance meets design

Designed for hybrid professionals and growing businesses, the HP ProBook 4 G2a 14" offers a refined, portable design with aluminum accents, smart port placement, and a spacious keyboard—all cost-optimized to make scaling easy.

### A view built for bold new ideas

Visualize diverse projects in true clarity on a 14-inch diagonal display with bold color accuracy. Choose from optional 400 nits brightness, OLED panel technology, or a touch screen engineered to thrive in hands-on workflows.<sup>4,11</sup>

### High-speed memory for vital workloads

Swiftly access up to 1TB of storage<sup>12</sup> and transfer data with available 64GB of DDR5 memory<sup>4</sup>, offering high bandwidth, fast speeds and improved energy efficiency for seamless multitasking and future-ready performance in secure environments.

### Fast and efficient Wi-Fi 7

Get a fast and reliable connection in dense wireless environments with optional gigabit data rate Wi-Fi 7.<sup>13,14</sup>

### Create greater connectivity to your tech

Plug into expanded possibility with dual USB-C with 20Gbps for power and displays, HDMI, USB-A, 5G-ready<sup>15</sup> connectivity and a combo audio/mic jack—designed for seamless transitions from desk to anywhere without missing a beat.

### Project confidence that demands attention

Stay sharp and secure in virtual conferencing with available 5MP+IR camera<sup>4</sup> featuring smart enhancements like AI Presence Detection and dynamic lighting for crystal-clear video calls and effortless collaboration in any setting.

### Work longer, charge faster

HP Long-life battery gets you through your day without plugging in. When the day goes longer, you can quickly recharge your convertible laptop with HP Fast Charge. You'll get up to 50% battery life in just 30 minutes of charging.<sup>16</sup>

### Confident input that just clicks

Comfort meets control with the expansive Microsoft Precision touchpad for fluid, multi-touch gestures. Match that with spill-resistant keys and an optional backlit keyboard<sup>4</sup> for a smooth and durable typing experience.

### Hear and be heard with optimized audio

Turn up the clarity with dual stereo speakers expertly tuned for optimized audio. Built-in dual microphones with AI noise reduction<sup>17</sup> ensure every meeting, call, and collaboration sounds crisp and professional.



# HP ProBook 4 G2ah 14 inch Notebook PC

## Technical specifications

<b>Available Operating Systems</b>	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 Education <sup>1</sup> Windows 11 Pro (Windows 11 Enterprise available with a Volume Licensing Agreement) <sup>1</sup> FreeDOS
<b>Processor family</b>	AMD Ryzen™ 7 processor AMD Ryzen™ 5 processor AMD Ryzen™ 3 processor
<b>Available Processors<sup>2,3</sup></b>	AMD Ryzen™ 7 H 255 (up to 4.9 GHz max boost clock, 16 MB L3 cache, 8 cores, 16 threads) with Radeon™ 780M Graphics; AMD Ryzen™ 5 220 (up to 4.9 GHz max boost clock, 16 MB L3 cache, 6 cores, 12 threads) with AMD Radeon™ 740M Graphics; AMD Ryzen™ 3 210 (up to 4.7 GHz max boost clock, 8 MB L3 cache, 6 cores, 12 threads) with AMD Radeon™ 740M Graphics
<b>Product colour</b>	Pike silver
<b>Maximum memory</b>	64 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>
<b>Memory slots</b>	2 SODIMM
<b>Internal storage</b>	256 GB up to 1 TB PCIe® NVMe™ M.2 SSD <sup>6</sup> 256 GB PCIe® NVMe™ M.2 SSD <sup>6,13,18</sup>
<b>Display size (diagonal, metric)</b>	35.6 cm (14")
<b>Display<sup>13,14,15,16,17,21</sup></b>	35.6 cm (14") diagonal, WUXGA (1920 x 1200), IPS, anti-glare, 400 nits, low power, 100% sRGB with HP Eye Ease; 35.6 cm (14") diagonal, WUXGA (1920 x 1200), touch, IPS, anti-glare, 300 nits, low power, 62.5% sRGB; 35.6 cm (14") diagonal, WUXGA (1920 x 1200), IPS, anti-glare, 300 nits, low power, 62.5% sRGB; 35.6 cm (14") diagonal, 2.5K (2560 x 1600), IPS, 120 Hz, anti-glare, 400 nits, 100% Adobe RGB and 100% DCI-P3 with HP Eye Ease; 35.6 cm (14") diagonal, WUXGA (1920 x 1200), OLED, IPS, anti-glare, 300 nits, 95% DCI-P3 with HP Eye Ease
<b>Available Graphics</b>	Integrated: AMD Radeon™ Graphics; AMD Radeon™ 740M Graphics
<b>Audio</b>	Audio by Poly Studio, dual stereo speakers, dual microphones enhanced by AI noise reduction
<b>Ports and connectors</b>	1 HDMI 2.1; 1 stereo headphone/microphone combo jack; 1 RJ-45; 1 nano security lock slot; 2 USB Type-A 5Gbps signaling rate (powered); 2 USB Type-C® 10Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4); (HDMI cable sold separately.)
<b>Input devices</b>	Spill-resistant, optional backlit keyboard with DuraKeys <sup>51</sup> ; Clickpad with multi-touch gesture support, taps enabled as default; Microsoft Precision Touchpad; HP Sure Platform; Thermal sensor; HP Tamper Lock; Hall effect sensor <sup>13,45</sup>
<b>Communications</b>	(Compatible with Miracast-certified devices. <sup>12</sup> ); Realtek RTL8111HSH without DASH support ; MediaTek Wi-Fi 6E RZ616 (2x2) and Bluetooth® 5.3 wireless card; MediaTek Wi-Fi 7 MT7925 (2x2) and Bluetooth® 6.0 wireless card ; HP RW220-GL LTE (CAT-1bis); HP R15 5G HP Go Solution; HP R15 5G Solution
<b>Camera</b>	IR camera; FHD camera with integrated dual array microphones; 5 MP HDR camera with Image Signal Processing (ISP) and AI presence detection <sup>13</sup>
<b>Software</b>	Buy Microsoft Office (sold separately); Edge Customization; HP Connection Optimizer; HP Hotkey support; HP MAC Address Manager; HP Notifications; HP PC Hardware Diagnostics UEFI; HP PC Hardware Diagnostics Windows; HP Privacy Settings; HP Services Scan <sup>23</sup> ; HP Support Assistant <sup>25</sup> ; HSA Fusion for Commercial; HSA Telemetry for Commercial; myHP <sup>26</sup> ; Poly Camera Pro; Poly Studio Desktop <sup>27</sup> ; Copilot in Windows with Copilot key <sup>28</sup>
<b>Security management</b>	Secured-Core PC Enable <sup>38</sup> ; Windows Hello Enhanced Sign-in Security (ESS) Enable; HP Sure Admin <sup>39</sup> ; HP Sure Click <sup>40</sup> ; HP Sure Recover <sup>41</sup> ; HP Sure Run <sup>42</sup> ; HP Sure Sense <sup>43</sup> ; HP Sure Start <sup>44</sup> ; HP Tamper Lock <sup>45</sup> ; Absolute Persistence Module <sup>46</sup> ; BIOS Update via Network; HP BIOSphere <sup>47</sup> ; HP DriveLock and Automatic DriveLock; HP Secure Erase <sup>48</sup> ; HP Wake on WLAN
<b>Security Software Licenses</b>	HP Wolf Pro Security Edition <sup>56</sup>
<b>Fingerprint reader</b>	Fingerprint sensor (select models)



# HP ProBook 4 G2ah 14 inch Notebook PC

## Technical specifications

<b>Management features</b>	HP Client Catalog (download) <sup>29</sup> ; HP Client Management Script Library (download) <sup>30</sup> ; HP Cloud Recovery <sup>31</sup> ; HP Connect for Microsoft Endpoint Manager <sup>32</sup> ; HP Driver Packs (download) <sup>33</sup> ; HP Image Assistant (download) <sup>34</sup> ; HP Manageability Integration Kit (download) <sup>35</sup> ; HP Patch Assistant (download) <sup>36</sup> ; HP Power Manager with Battery Health Manager (download) <sup>37</sup>
<b>Memory card device</b>	1 nano SIM (optional)
<b>Power</b>	HP 100 W wall mount USB Type-C® GaN power adapter; HP 65 W wall mount USB Type-C® GaN power adapter; HP 65 W USB Type-C® GaN power adapter <sup>13,21</sup>
<b>Battery type</b>	HP Long Life 3-cell, 56 Wh Li-ion polymer; HP Long Life 3-cell, 68 Wh Li-ion polymer <sup>13,19</sup> ; Battery is internal and not replaceable by customer. Serviceable by warranty. Fast charging 50% in 30 minutes. <sup>20</sup>
<b>Dimensions</b>	31.86 x 22.43 x 1.1 cm (minimum front); 31.86 x 22.43 x 1.7 cm (minimum rear); 31.86 x 22.43 x 1.15 cm (maximum front); 31.86 x 22.43 x 1.75 cm (maximum rear); (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.) <sup>52</sup> ; Maximum Height: 2.04 cm
<b>Weight</b>	Starting at 1.41 kg; (Weight will vary by configuration. Does not include power adapter.)
<b>Energy star certified</b>	ENERGY STAR® certified
<b>Certification and compliance</b>	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
<b>Sustainable impact specifications</b>	At least 30% recycled metal; Product Carbon Footprint; HP paper-based packaging is from recycled or certified sources; At least 30% post-consumer recycled plastic; At least 30% ocean-bound plastic; Low halogen; Bulk packaging available; External power supply 90% efficiency
<b>TCO certified</b>	TCO Certified, generation 10 <sup>64</sup>
<b>EPEAT registered</b>	EPEAT registered configurations available <sup>49</sup>
<b>Warranty</b>	1-year warranty and 90 day software limited warranty options depending on country. HP Worldwide Limited Warranty for the battery is aligned with the warranty period of the HP Hardware Product. Refer to <a href="http://www.hp.com/support/batterywarranty/">http://www.hp.com/support/batterywarranty/</a> for additional battery information. 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> .



# HP ProBook 4 G2ah 14 inch Notebook PC

## Accessories and services (not included)

**HP 105 Sanitizable Mouse Pad**



Elevate your space with an anti-slip, durable, sanitizable<sup>1</sup>, and spill-resistant mouse pad. With effortless gliding and pinpoint accuracy, this minimalist mouse pad maximizes movement to make the perfect accomplice to your favorite mouse.

**Product number: 8X595AA**

<sup>1</sup> Select household wipes can be safely used 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 Clean Your HP Device Whitepaper

(<https://h20195.www2.hp.com/v2/GetDocument.aspx?docname=4AA7-7610ENW>)

<sup>2</sup> Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 EPEAT<sup>®</sup> standard.

**HP Everyday 14-inch Laptop Bag**



Keep your laptop and accessories protected and organized as you move throughout your day with this durable 14-inch laptop bag. Responsibly made using recycled materials, this spacious bag is an ideal companion no matter where your journey takes you.

**Product number: A08KJAA**

<sup>1</sup> Fits most laptops up to 14 inches.

<sup>2</sup> HP Total Test Process testing is not a guarantee of future performance under these test conditions. Damage under the HP Total Test Process test conditions or any accidental damage requires an optional HP Accidental Damage Protection Care Pack.

**HP 405 Quiet Black Wireless Mouse**



Work your way with a mouse designed to keep up with you. With vertical/horizontal scrolling, 24-month battery life<sup>1</sup> and quiet clicks, the durable, soft silicone HP 405 Quiet Wireless Mouse helps you work wherever you are.

**Product number: AZ7B3AA**

<sup>1</sup> From 1 AA battery. Battery life is an estimate and varies depending on many factors, including number of active, idle and asleep hours of use, number of applications running, environmental conditions and features used; actual battery life will vary with usage and environmental condition. The maximum capacity of battery will naturally decrease with time and usage.

<sup>2</sup> Requires Windows 10 or higher.

**HP Portable USB-C Hub**



This small but mighty hub goes wherever you go with four additional ports so you can connect everything you need. Designed for lightning fast signaling data rate, wired Ethernet connection, and charging on the go, it's easy to transport and works seamlessly with most devices.<sup>1</sup>

**Product number: B8SU8UT**

<sup>1</sup> Compatible with most USB-C<sup>®</sup> devices.

<sup>2</sup> Actual throughput may vary.

**HP 495K Multi-Device Dual-Mode Keyboard**



Stay connected, productive, and protected without missing a beat. This keyboard securely connects to multiple devices, streamlines multitasking with smart shortcuts, and delivers all-day typing comfort, so you can focus solely on what matters.

**Product number: BD5F5UT**

<sup>1</sup> Supports Windows 10/11, macOS, ChromeOS, Android, and iOS. All platforms except Windows have limited feature compatibility.

<sup>2</sup> Requires HP Accessory Center (HPAC) Software. HPAC available for free download in Microsoft Store.

# HP ProBook 4 G2ah 14 inch Notebook PC

## Footnotes

### Messaging 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. 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>.
- <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.
- <sup>4</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>5</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>6</sup> Based on US EPEAT® registration according to IEEE 16801-2018 EPEAT®. EPEAT® status varies by country. Visit [www.epeat.net](http://www.epeat.net) for more information.
- <sup>7</sup> ENERGY STAR® certified products meet strict energy efficiency guidelines set by the U.S. Environmental Protection Agency, ENERGY STAR® and the ENERGY STAR® logo are registered trademarks of the U.S. Environmental Protection Agency.
- <sup>8</sup> 100% outer box packaging made from sustainably sourced certified and recycled fibers.
- <sup>9</sup> Microsoft Copilot 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 Copilot is not available, the Copilot key will lead to the Bing search engine. See <http://aka.ms/WindowsAIFeatures>.
- <sup>10</sup> All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.
- <sup>11</sup> For hard drives and solid-state drives, TB = 1 trillion bytes.
- <sup>12</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>13</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>14</sup> HP 5G module is optional and must be configured at the factory. Module designed for 5G NR NSA (non-standalone) networks as carriers deploy Evolved-Universal Terrestrial Radio Access New Radio Dual Connectivity (ENDC) with both 100MHz of 5G NR and LTE channel bandwidth, using 256QAM 4x4 as defined by 3GPP. Module requires activation and separately purchased service contract. Check with service provider for coverage and availability in your area. Data connection, upload and download speeds will vary due to network, location, environment, network conditions, and other factors. Backwards compatible to 4G LTE and 3G HSPA technologies. 5G module planned to be available in select platforms and select countries, where carrier supported.
- <sup>15</sup> Recharges up to 50% within 30 minutes when the system is off or in standby mode when used with the power adapter provided with the notebook. Power adapter minimum of 65 watts required for battery capacities 56Whr or less. Power adapter minimum of 100 watts required for battery capacities greater than 56Whr and less than 83Whr. Power adapter minimum of 120 watts required for battery capacities greater than 83Whr and less than 100Whr. After charging has reached 90% capacity, charging speed will return to normal. Charging time may vary +/-10% due to System tolerance.
- <sup>16</sup> Requires HP app and Windows OS.

### 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. 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>.
- <sup>2</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. 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> 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>5</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>6</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. Available in countries where Wi-Fi 6E is supported.
- <sup>7</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, that supports 80MHz and higher channels.
- <sup>8</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>9</sup> 5G module is optional and must be configured at the factory. Module designed for 5G NR NSA (non-standalone) networks as carriers deploy Evolved-Universal Terrestrial Radio Access New Radio Dual Connectivity (ENDC) with both 100MHz of 5G NR and LTE channel bandwidth, using 256QAM 4x4 as defined by 3GPP. Module requires activation and separately purchased service contract. Check with service provider for coverage and availability in your area. Data connection, upload and download speeds will vary due to network, location, environment, network conditions, and other factors. Backwards compatible to 4G LTE and 3G HSPA technologies. 5G module planned to be available in select platforms and select countries, where carrier supported.
- <sup>10</sup> LPWAN (also called Mobile Narrowband) supports HP Protect & Trace with Wolf Connect service through the subscription term, but does not support mobile broadband use.
- <sup>11</sup> Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming.
- <sup>12</sup> Sold separately or as an optional feature.
- <sup>13</sup> WUXGA (FHD+) content required to view WUXGA (FHD+) images.
- <sup>14</sup> Resolutions are dependent upon monitor capability, and resolution and color depth settings.
- <sup>15</sup> Actual brightness will be lower with touchscreen.
- <sup>16</sup> All specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.
- <sup>17</sup> Second storage is only available with non-WWAN base unit and Primary M.2 storage.
- <sup>18</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>19</sup> Recharges up to 50% within 30 minutes when the system is off or in standby mode when used with the power adapter provided with the notebook. Power adapter minimum of 65 watts required for battery capacities 56Whr or less. Power adapter minimum of 100 watts required for battery capacities greater than 56Whr and less than 83Whr. Power adapter minimum of 120 watts required for battery capacities greater than 83Whr and less than 100Whr. After charging has reached 90% capacity, charging speed will return to normal. Charging time may vary +/-10% due to System tolerance.
- <sup>20</sup> Availability may vary by country.
- <sup>21</sup> HP Services Scan 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>.
- <sup>22</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>23</sup> MyHP requires Windows 10 or higher OS.
- <sup>24</sup> Poly Studio Desktop requires a Windows OS.
- <sup>25</sup> Microsoft Copilot 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 Copilot is not available, the Copilot key will lead to the Bing search engine. See <http://aka.ms/WindowsAIFeatures>.
- <sup>26</sup> HP Client Catalog not preinstalled, however available for download at (<https://www.hp.com/us-en/solutions/client-management-solutions.html>).
- <sup>27</sup> HP Client Management Script Library (<https://www.hp.com/us-en/solutions/client-management-solutions.html#tab=manageability-tools>).
- <sup>28</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/document/c05115630>.
- <sup>29</sup> HP Connect for Microsoft Endpoint Manager is available from the Azure Market Place for HP Pro, Elite, Z and Point-of-Sale PCs managed with Microsoft Endpoint Manager. Subscription to Microsoft Endpoint Manager required and sold separately. Network connection required.
- <sup>30</sup> HP Driver Packs not preinstalled, however available for download at <http://www.hp.com/go/clientmanagement>.
- <sup>31</sup> HP Image Assistant not preinstalled, however available for download at (<https://ftp.ext.hp.com/pub/cups-softpaq/cmit/HP/IA.html>).
- <sup>32</sup> HP Manageability Integration Kit can be downloaded from <http://www.hp.com/go/clientmanagement>.
- <sup>33</sup> HP Patch Assistant available on select HP PCs with the HP Manageability Kit that are managed through Microsoft System Center Configuration Manager. HP Manageability Integration Kit can be downloaded from <http://www8.hp.com/us/en/ads/clientmanagement/overview.html>.
- <sup>34</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\\_3519507\\_16](https://support.hp.com/in-en/document/ish_4449597_3519507_16).
- <sup>35</sup> Secured-Core PC Enable requires an Intel® vPro®, AMD Ryzen™ Pro processor or Qualcomm® processor with SD850 or higher and requires 8 GB or more system memory. Secured-core PC is enabled from the factory.
- <sup>36</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.
- <sup>37</sup> HP Sure Click requires Windows 10 Pro or higher or Enterprise. See <https://bit.ly/2PrLT6A>, SureClick for complete details.
- <sup>38</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>39</sup> HP Sure Run is available on select HP PCs and requires Windows 10 and higher.
- <sup>40</sup> HP Sure Sense is available on select HP PCs with Windows 10 Pro, Windows 10 Enterprise, Windows 11 Pro, or Windows 11 Enterprise OS.
- <sup>41</sup> HP Sure Start is available on select HP PCs and requires Windows 10 and higher.
- <sup>42</sup> HP Tamper Lock can be Enabled/Disabled by customers or IT administrator with administrator authority.
- <sup>43</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>44</sup> HP BIOSphere features may vary depending on the platform and configuration.
- <sup>45</sup> HP Secure Erase implements the methods outlined in the National Institute of Standards and Technology Special.
- <sup>46</sup> Based on US EPEAT® registration according to IEEE 16801-2018 EPEAT®. Status varies by country. Visit [www.epeat.net](http://www.epeat.net) for more information.
- <sup>47</sup> HP Fingerprint Sensor is an optional feature and requires configuration at purchase.
- <sup>48</sup> Backlit keyboard is an optional feature.
- <sup>49</sup> Typical dimension. Actual dimension may vary +/- 0.5mm. Height may vary based on configuration. Maximum Height does not include Rubber feet. Actual maximum product height may vary between 1.99 cm (0.78 in) and 2.04 cm (0.8 in) depending on the configuration/model.
- <sup>50</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.
- <sup>51</sup> TCO Certified is a ISO 14024 Type 1 sustainability label for IT products. Compliance with all criteria is independently verified.

