

# HP ProBook 4 G1i 16 inch Notebook AI PC

## Maximize your potential with a resilient, future-ready laptop

Discover modern PC experiences with advanced technology as your teams delve into AI-driven workstyles. HP ProBook 4 laptop AI PC delivers essential performance, security, and durability in an easily upgradeable 16" package built for a long lifecycle.

### Maximize performance with advanced features

Grow your business, managing tasks efficiently with an Intel® Core™ Ultra processor.<sup>2,3</sup> Unlock AI-powered workflows with a 11 TOPS NPU<sup>4</sup>, NVIDIA RTX™ graphics<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>6</sup>



\*Product image may differ from actual product

## Sustainability in action

### Help protect our shared future

The ProBook 4 G1i Notebook AI PC contains 50% post-industrial recycled aluminum in the cover<sup>7</sup>, uses 100 percent HP paper-based packaging from recycled or certified sustainable sources<sup>8</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>10</sup>

### Latest Intel® multi-core processor

Get the perfect combination of power, snappy performance, and value for your HP ProBook 4. With up to the latest Intel® Core™ Ultra Processor<sup>2,3</sup> and featuring 11 TOPS NPU<sup>4</sup>, optimize your workload with AI-driven intelligent technology.

### Protected by HP Wolf Security

HP Wolf Security for Business<sup>6</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>3,11,12</sup> or an ultra-crisp WQXGA with 400 nits.<sup>3,11,12</sup> Combined with Low Blue Light<sup>3</sup> and touchscreen<sup>3,12</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>3</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>3,13,14</sup>

### Wireless 4G LTE connectivity

Stay connected almost anywhere with the optional embedded CAT16 WWAN.<sup>15</sup> Highly reliable advanced network connectivity helps expand connectivity and enhance security.

### 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>17</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>3</sup> camera or the optional 5MP + IR camera, featuring Temporal Noise Reduction and ISP.<sup>3</sup> Together with speakers tuned by Poly Studio, help ensure exceptional visual and audio clarity and definition.

### Powerful discrete graphics performance

Boost your laptop's performance with optional NVIDIA® GeForce RTX3050 discrete graphics.<sup>3</sup> Utilize powerful tools from AI-based content creation to smart video conferencing with fast and smooth graphics performance.

### 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>18,19</sup>



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## Technical specifications

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|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Available Operating Systems             | Windows 11 Pro <sup>1</sup><br>Windows 11 Home – HP recommends Windows 11 Pro for business <sup>1</sup><br>Windows 11 Home Single Language – HP recommends Windows 11 Pro for business <sup>1</sup><br>Windows 11 Pro Education <sup>1</sup><br>Windows 11 Pro (Windows 11 Enterprise available with a Volume Licensing Agreement) <sup>1</sup><br>FreeDOS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Processor family                        | Intel® Core™ Ultra 5 processor<br>Intel® Core™ Ultra 7 processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Available Processors <sup>2,3,4,5</sup> | Intel® Core™ Ultra 7 255H (up to 2.5 GHz LP E-core Max Turbo frequency, up to 4.4 GHz E-core Max Turbo frequency, up to 5.1 GHz P-core Max Turbo frequency, 24 MB L3 cache, 6 P-cores, 2 LP E-cores and 8 E-cores, 16 threads) with Intel® Arc™ Graphics and Intel® AI Boost (13 NPU TOPS)<br>Intel® Core™ Ultra 7 255U (up to 2.4 GHz LP E-core Max Turbo frequency, up to 4.2 GHz E-core Max Turbo frequency, up to 5.2 GHz P-core Max Turbo frequency, 12 MB L3 cache, 2 P-cores, 2 LP E-cores and 8 E-cores, 14 threads) with Intel® Graphics and Intel® AI Boost (12 NPU TOPS)<br>Intel® Core™ Ultra 5 225U (up to 2.4 GHz LP E-core Max Turbo frequency, up to 3.8 GHz E-core Max Turbo frequency, up to 4.8 GHz P-core Max Turbo frequency, 12 MB L3 cache, 2 P-cores, 2 LP E-cores and 8 E-cores, 14 threads) with Intel® Graphics and Intel® AI Boost (12 NPU TOPS)<br>Intel® Core™ Ultra 5 225H (up to 2.5 GHz LP E-core Max Turbo frequency, up to 4.2 GHz E-core Max Turbo frequency, up to 4.9 GHz P-core Max Turbo frequency, 18 MB L3 cache, 4 P-cores, 2 LP E-cores and 8 E-cores, 14 threads) with Intel® Arc™ Graphics and Intel® AI Boost (13 NPU TOPS) |
| Neural Processing Unit                  | Intel® AI Boost <sup>5</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Product colour                          | Pike silver                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Maximum memory                          | 32 GB DDR5-5600 MT/s; (Transfer rates up to 5600 MT/s.)<br>Both slots are accessible/upgradeable by IT or self-maintainers only. Supports dual channel memory. <sup>6</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Memory slots                            | 2 SODIMM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Internal storage                        | 256 GB up to 1 TB PCIe® NVMe™ M.2 SSD <sup>7</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Display size (diagonal, metric)         | 40.6 cm (16")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Display <sup>14,15,16,46</sup>          | 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, 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; 40.6 cm (16") diagonal, 2.5K (2560 x 1600), IPS, 120 Hz, anti-glare, 400 nits, 100% Adobe RGB and 100% DCI-P3 with HP Eye Ease                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Available Graphics                      | Integrated: Intel® Arc™ Graphics; Intel® Graphics <sup>20</sup><br>Discrete: NVIDIA® GeForce RTX™ 3050 (4 GB GDDR6 dedicated) <sup>13</sup><br>(Support HD decode, DX12, 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; 2 USB Type-A 5Gbps signaling rate (powered); 2 USB Type-C® 20Gbps signaling rate (USB Power Delivery 3.0, DisplayPort™ 1.4, HP Sleep and Charge) <sup>21</sup> ;<br>(Cables are not included.);<br>Optional Ports: 1 nano SIM <sup>11</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Input devices                           | Full-size, island-style keyboard with numeric keypad and optional backlit <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>11,32</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Communications                          | (Compatible with Miracast-certified devices. <sup>12</sup> ); ;<br>Qualcomm® 9205 LTE Cat-M1 Modem ;<br>Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card; MediaTek Wi-Fi 6E RZ616 (2x2) and Bluetooth® 5.3 wireless card; Intel® Wi-Fi 7 BE201 (2x2) and Bluetooth® 5.4 wireless card, non-vPro® ;<br>HP 4000 4G LTE Advanced Pro                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Camera                                  | FHD camera (select models); 5 MP IR camera (select models) <sup>11,14</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Software                                | Buy Microsoft Office (sold separately); HP Connection Optimizer; HP Hotkey support; HP MAC Address Manager; HP Notifications; HP UEFI BIOS Certification level 2.7B; HP PC Hardware Diagnostics Windows; HP Privacy Settings; HP Services Scan <sup>21</sup> ; HP Smart Support <sup>22</sup> ; HP Support Assistant; myHP; HSA Fusion for Commercial; HSA Telemetry for Commercial; Poly Lens <sup>15</sup> ; Poly Camera Pro; Copilot in Windows with Copilot key <sup>24</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Security management                     | HP Tamper Lock <sup>32</sup> ; Secured-Core PC Enable <sup>33</sup> ; Windows Hello Enhanced Sign-in Security (ESS) Enable; HP Sure Admin <sup>34</sup> ; HP Sure Click <sup>35</sup> ; HP Sure Recover <sup>36</sup> ; HP Sure Run <sup>37</sup> ; HP Sure Sense <sup>38</sup> ; HP Sure Start <sup>39</sup> ; TPM 2.0 Embedded Security Chip (Common Criteria EAL4+ Certified) (FIPS 140-2 Level 2 Certified); Absolute Persistence Module <sup>40</sup> ; Audio Permanent Disable; HP BIOS Recovery; BIOS Update via Network; HP BIOSphere Gen6 <sup>41</sup> ; HP DriveLock and Automatic DriveLock; HP Secure Erase <sup>42</sup> ; HP Wake on WLAN; Security lock slot <sup>43</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Security Software Licenses              | HP Wolf Pro Security Edition <sup>56</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Fingerprint reader                      | Fingerprint sensor (select models)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |



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|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Management features               | HP Client Catalog (download) <sup>25</sup> ; HP Client Management Script Library (download) <sup>26</sup> ; HP Cloud Recovery <sup>27</sup> ; HP Connect for Microsoft Endpoint Manager; HP Driver Packs (download) <sup>28</sup> ; HP Image Assistant (download) <sup>29</sup> ; HP Manageability Integration Kit (download) <sup>30</sup> ; HP Power Manager with Battery Health Manager (download) <sup>31</sup>                                                                     |
| Power                             | 45 W USB Type-C® adapter; 65 W USB Type-C® adapter; HP 100 W USB Type-C® slim adapter; HP 65 W USB Type-C® Halogen-free adapter <sup>19</sup>                                                                                                                                                                                                                                                                                                                                           |
| Battery type                      | HP Long Life 3-cell, 56 Wh Li-ion polymer; HP Long Life 3-cell, 48 Wh Li-ion polymer <sup>17</sup> ; Battery is internal and not replaceable by customer. Serviceable by warranty. Fast charging 50% in 30 minutes. <sup>18</sup>                                                                                                                                                                                                                                                       |
| Dimensions                        | 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 1.74 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>45</sup>                                                                                                                                                                                                                                                                                                                                                    |
| Energy star certified             | ENERGY STAR® certified                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Certification and compliance      | CECP; 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> 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.

<sup>3</sup> Optional feature that must be configured at the time of purchase.

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

<sup>6</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>7</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>8</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>10</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>11</sup> WUXGA (1920x1200) or WOXGA (2560x1600) content required to view WUXGA or WOXGA images.

<sup>12</sup> Touchscreen will reduce actual brightness.

<sup>13</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>14</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>15</sup> WWAN is an optional feature, requires factory configuration and separately purchased service contract. Check with service provider for coverage and availability in your area. 4G LTE not available on all products, in all regions.

<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=4AAB-3644ENW>.

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

<sup>18</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>19</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 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>.

<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. Intel's numbering, branding and/or naming is not a measurement of higher performance.

<sup>3</sup> Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.

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

<sup>5</sup> Features and software that require a 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. Potential NPU inferencing performance varies by use, configuration, and other factors.

<sup>6</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>7</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>8</sup> Wi-Fi 6E requires a Wi-Fi 6E router, and Windows 11, 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> Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 7 (802.11BE) functionality requires Windows 11 24H2, select Intel® 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>10</sup> WWAN module is an optional feature, requires factory configuration and requires 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, in all regions.

<sup>11</sup> Sold separately or as an optional feature.

<sup>12</sup> Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming.

<sup>13</sup> Integrated graphics depends on processor. NVIDIA® Optimus™ technology requires an Intel processor, plus an NVIDIA® GeForce® discrete graphics configuration and is available on Windows 10 Pro OS or higher. With NVIDIA® Optimus™ technology, full enablement of all discrete graphics video and display features may not be supported on all systems (e.g. OpenGL applications will run on the integrated GPU or the APU as the case may be).

<sup>14</sup> Full-High Definition (FHD) content required to view FHD images.

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

<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> 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>18</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>19</sup> Availability may vary by country.

<sup>20</sup> Intel® Arc™ graphics only available on select Intel® Core™ Ultra H-series processor-powered systems with at least 16GB of system memory in dual channel configuration.

<sup>21</sup> 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.hpdaas.com/requirements>. Not applicable in China.

<sup>22</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>.

<sup>23</sup> Poly Lens Desktop requires a Windows OS.

<sup>24</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. Use of Recall requires customer authentication using Windows Hello Enhanced Sign in Security (ESS) which requires a fingerprint reader or facial recognition camera and may not be supported on all platforms. See <http://aka.ms/WindowsAIFeatures>

<sup>25</sup> HP Client Catalog not preinstalled, however available for download at: <https://www.hp.com/us-en/solutions/client-management-solutions.html>

<sup>26</sup> HP Client Management Script Library (<https://www.hp.com/us-en/solutions/client-management-solutions.html#tab=manageability-tools>).

<sup>27</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>28</sup> HP Driver Packs not preinstalled, however available for download at <http://www.hp.com/go/clientmanagement>.

<sup>29</sup> HP Image Assistant not preinstalled, however available for download at (<https://ftp.exthp.com/pub/caps-softpaq/cmit/HPIA.html>).

<sup>31</sup> HP Manageability Integration Kit not preinstalled, however available for download from <https://www.hp.com/us-en/solutions/client-management-solutions.html#tab=manageability-tools>.

<sup>31</sup> HP Power Manager with Battery Health can be downloaded by entering your system information here: [https://support.hp.com/in-en/document/ish\\_4449597-351950716](https://support.hp.com/in-en/document/ish_4449597-351950716).

<sup>32</sup> HP Tamper Lock must be enabled by the customer or your administrator.

<sup>33</sup> Secured Core PC 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 functionality can be enabled from the factory.

<sup>34</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>35</sup> HP Sure Click requires Windows 10 and higher. See [https://bit.ly/2PrLT6A\\_SureClick](https://bit.ly/2PrLT6A_SureClick) for complete details.

<sup>36</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.

<sup>37</sup> HP Sure Run is available on select HP PCs and requires Windows 10 and higher.

<sup>38</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>39</sup> HP Sure Start is available on select HP PCs and requires Windows 10 and higher.

<sup>40</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>41</sup> HP BIOSphere Gen6 features may vary depending on the platform and configuration.

<sup>42</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>43</sup> Lock is sold separately.

<sup>44</sup> HP BIOSphere Gen6 features may vary depending on the platform and configuration.

<sup>45</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>46</sup> Actual brightness will be lower with touchscreen.

<sup>50</sup> HP Fingerprint Sensor is an optional feature and requires configuration at purchase.

<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, Workstation, and RPOS products. See product details for included security features and OS requirements.

