

# HP EliteBook 8 G1a 14 inch Notebook AI PC

## Empower your hybrid workforce with an AI PC

Effectively balance hybrid work across your organization with performance, security, and conferencing tools enhanced by AI. The sophisticated HP EliteBook 8 G1a 14 inch AI PC enables users to excel in dynamic, multitasking work environments.

### Seamless efficiency for demanding tasks

Efficiently handle demanding business workflows and hybrid workstyles with the HP EliteBook 8 G1a AI PC featuring a 16 TOPS NPU.<sup>3</sup> This PC remains cool and quiet, automatically adjusting to balance performance based on your needs and how you are working.

### Effortless teamwork for emerging leaders

Whether you are engaged in virtual meetings, collaborating on projects, or maintaining communication with your team, the Poly Camera Pro<sup>4</sup> facilitates seamless teamwork and productivity. It ensures efficiency regardless of your location, whether you are in the office or traveling.

### Protected by HP Wolf Security

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



\*Product image may differ from actual product

## Sustainability in action

### Help protect our shared future

The HP EliteBook 8 G1a AI PC is designed using 70% ocean bound plastics in the keyboard membrane<sup>6</sup>, 50% post-consumer recycled plastic in the keycaps<sup>6</sup>, and the outer box packaging is 100% sustainably sourced and recyclable.<sup>7</sup>



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## Featuring

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

Work anywhere without compromising on performance with Windows 11<sup>1</sup> and HP collaboration, security, and connectivity technology. Summarize and get relevant content recommendations with Microsoft Copilot.<sup>8</sup>

### Powerful AMD processor

Take on your work with an efficient and reliable AMD Ryzen® PRO or non-PRO processor<sup>2</sup> with a 16 TOPS NPU<sup>3</sup> that provides a highly responsive experience with connected modern standby.

### Optimize PC performance

Work without distraction with HP Smart Sense<sup>9</sup> which makes automatic adjustments keeping your system cool and quiet and lets you enable performance mode when you need it most.

### Simplified serviceability

Address many service concerns including ease of repair with fewer screws, reducing the time and cost to repair with a keyboard that detaches from the c-cover and an end user replaceable battery.

### Keep visual hackers at bay

Stop shoulder surfers in their tracks with optional HP Sure View<sup>10</sup> with onlooker detection that activates Sure View reducing visual light making your screen unreadable when viewed from the side.

### Collaboration through the NPU

Look your best on video calls and save some power too. Manage your video controls for internal and external cameras with Poly Camera Pro.<sup>4</sup> Now Auto Frame, Spotlight, Background Blur, and virtual backgrounds save power running on the NPU.

### One touch powers the PC and logs you in

Power up and log in with a single touch of the power key that combines the power button with an integrated fingerprint sensor enhancing both security and convenience.<sup>11</sup>

### Updated sleek and stylish design

Make a statement in your next meeting with the updated thin and light design. Easily connect to a wide range of devices and networks with three USB Type-C® ports on the PC and an optional RJ-45 port.<sup>12</sup>

### Walk away lock and wake on approach

Wake and lock your PC with your presence. A proximity sensor in the optional 5MP +IR camera detects when you leave your PC and locks it. Upon your return, the sensor triggers the camera and Windows Hello to verify your identity and unlock the PC.<sup>13</sup>

### Hear and be heard

Dynamic Voice Leveling<sup>4</sup> automatically enhances microphone gain to optimize voice clarity within 3-meters of the PC. AI Noise Reduction<sup>4</sup> uses noise-filtering technology to enhance audio conferencing experience even while wearing a mask.

### Balanced light for a clear image

Make sure you can clearly be seen on calls with Dynamic Color Tuning<sup>16</sup> that adjusts camera auto-color and auto-white balance for a more natural color when you are in front of a monochromatic background.

### Enhanced predictive coverage

Limit interruptions with HP Premium+ Support, a smart service that alerts of potential device issues using predictive AI-powered insights, automation and proactive 24/7 support for our fastest diagnosis and repair—wherever work happens.<sup>14,15</sup>



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## Technical specifications

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 (Windows 11 Enterprise available with a Volume Licensing Agreement) <sup>1</sup><br>FreeDOS                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Processor family                      | AMD Ryzen™ 7 processor<br>AMD Ryzen™ 7 PRO processor<br>AMD Ryzen™ 5 processor<br>AMD Ryzen™ 5 PRO processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Available Processors <sup>2,3,4</sup> | AMD Ryzen™ 5 PRO 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)<br>AMD Ryzen™ 7 PRO 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)<br>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)<br>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)                                                      |
| Neural Processing Unit                | AMD Ryzen™ AI <sup>4</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Product colour                        | Glacier silver                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Maximum memory                        | 64 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>43</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Memory slots                          | 2 SODIMM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Internal storage                      | 512 GB up to 2 TB PCIe® Gen4x4 NVMe™ M.2 SSD TLC <sup>5</sup><br>256 GB up to 1 TB PCIe® NVMe™ M.2 SSD <sup>5</sup><br>512 GB PCIe® Gen4x4 NVMe™ M.2 SED SSD TLC <sup>5</sup><br>256 GB PCIe® NVMe™ M.2 SED SSD <sup>5</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Display size (diagonal, metric)       | 35.6 cm (14")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Display <sup>13,14,15,16</sup>        | 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), IPS, anti-glare, 800 nits, 100% sRGB, HP Sure View 5 integrated privacy screen with HP Eye Ease; 35.6 cm (14") diagonal, WUXGA (1920 x 1200), touch, IPS, anti-glare, 800 nits, 100% sRGB, HP Sure View 5 integrated privacy screen 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 |
| Available Graphics                    | Integrated: AMD Radeon™ Graphics<br>(Support DX12 and HDMI 2.1.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Audio                                 | Audio by Poly Studio, dual stereo speakers with discrete amplifiers, integrated dual array microphones                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Ports and connectors                  | 2 Thunderbolt™ 4 with USB Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 2.1, HP Sleep and Charge); 1 USB Type-C® 10Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4); 1 HDMI 2.1; 1 stereo headphone/microphone combo jack; 1 security lock slot; 1 USB Type-A 5Gbps signaling rate (powered) <sup>12,44</sup> ;<br>(Cables are not included.);<br>Optional Ports: 1 Smartcard reader (optional); 1 RJ-45 (optional) <sup>11,57</sup>                                                                                                                                                                                                                                                                                      |
| Input devices                         | HP Premium Keyboard - spill-resistant, full-size, optional backlit keyboard with DuraKeys <sup>51</sup> ; Clickpad with multi-touch gesture support; Microsoft Precision Touchpad; HP Sure Platform; Thermal sensor; HP Tamper Lock; Hall effect sensor; Color sensor with Ambient light sensing <sup>11</sup> ; Ambient light sensor                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Communications                        | (Compatible with Miracast-certified devices. <sup>8</sup> ); ;<br>Realtek RTL8111EPP 1 GbE Ethernet Controller <sup>11</sup> ;<br>Qualcomm® FastConnect™ 7800 Wi-Fi 7 (2x2) High Band Simultaneous (HBS) and Bluetooth® 5.4 wireless card; MediaTek Wi-Fi 6E RZ616 (2x2) and Bluetooth® 5.3 wireless card with external antenna; MediaTek Wi-Fi 7 MT7925 (2x2) and Bluetooth® 5.4 wireless card with external antenna ;<br>HP 4000 4G LTE Advanced Pro; HP 5000 5G Solution ;<br>NFC Miracast WNC XR4V-1 <sup>6,7,11</sup>                                                                                                                                                                                                                            |
| Camera                                | 5 MP camera; IR camera <sup>11</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Software                              | Buy Microsoft Office (sold separately); HP Connection Optimizer; Edge Customization; 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>21</sup> ; HP Smart Support <sup>22</sup> ; HP Support Assistant <sup>23</sup> ; myHP; HSA Fusion for Commercial; HSA Telemetry for Commercial; Poly Lens <sup>24</sup> ; Poly Camera Pro; Copilot in Windows with Copilot key <sup>42</sup>                                                                                                                                                                                                                                   |
| Security management                   | HP Tamper Lock; Secured-Core PC Enable; Windows Hello Enhanced Sign-in Security (ESS) Enable; HP Sure Admin <sup>32</sup> ; HP Sure Click <sup>33</sup> ; HP Sure Recover <sup>34</sup> ; HP Sure Run <sup>35</sup> ; HP Sure Sense <sup>36</sup> ; HP Sure Start <sup>37</sup> ; Trusted Platform Module TPM 2.0 Embedded Security Chip shipped with Windows 11 (Common Criteria EAL4+ certified)(FIPS 140-2 Level 2 certified); Absolute Persistence Module <sup>38</sup> ; Audio Permanent Disable; HP BIOS Recovery; BIOS Update via Network; HP BIOSphere Gen6 <sup>39</sup> ; HP DriveLock and Automatic DriveLock; HP Secure Erase <sup>40</sup> ; HP Wake on WLAN; Security lock slot <sup>44</sup>                                           |
| 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>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>                                                                                                                                                                                                                                                                                |
| Memory card device                | 1 nano SIM (optional)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Power                             | 65 W USB Type-C® slim adapter; 65 W USB Type-C® adapter; HP 100 W USB Type-C® slim adapter; HP 65 W USB Type-C® Halogen-free adapter; HP 65 W USB Type-C® GaN slim power adapter <sup>19</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Battery type                      | HP Long Life 3-cell, 62 Wh Li-ion polymer <sup>17</sup> ;<br>Battery is internal. Serviceable by warranty. Fast charging 50% in 30 minutes. <sup>18</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Battery life                      | Up to 17 hours and 30 minutes <sup>45</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Dimensions                        | 31.56 x 22.2 x 1.17 cm (front); 31.56 x 22.2 x 1.55 cm (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.)                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Weight                            | Starting at 1.39 kg;<br>(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>20</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Energy star certified             | ENERGY STAR® certified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Certification and compliance      | 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; 30% post-consumer recycled plastic; 80% recycled metal; 100% of HP paper-based packaging is from recycled or certified sustainable sources; Product Carbon Footprint                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Warranty                          | 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 EliteBook 8 G1a 14 inch Notebook AI 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> 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>4</sup> Requires HP app and Windows OS. AI Magic Background runs on the GPU when initially generating your background in Poly Camera Pro. The NPU is used for streaming your restyled background in your collaboration applications.

<sup>5</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>6</sup> Recycled plastic content percentage is based on the definition set in the IEEE 16801-2018 EPEAT standard.

<sup>7</sup> 100% outer box packaging made from sustainably sourced certified and recycled fibers.

<sup>8</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>9</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>10</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>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> Smart Sense requires the myHP app and Windows 11 OS. Features may vary by platform.

<sup>13</sup> HP Sure View integrated privacy screen is an optional feature that must be configured at purchase and is designed to function in landscape orientation.

<sup>14</sup> Requires Windows OS and setup through Windows Hello.

<sup>15</sup> Optional feature must be configured at the time of purchase.

<sup>16</sup> 5MP iR camera is an optional feature that must be configured at the time of purchase. Requires Windows 11 and higher and set up of facial recognition through Windows Hello. See <https://www.microsoft.com/en-us/windows/tips/presence-sensing> .

<sup>17</sup> Predictive insights is only available with HP Premium+ Support. Select HP Workforce Solutions require an HP Insights agent for Windows, Mac, & Android, available for download at <https://admin.hp.com/software>. For full system requirements and services that require the agent, please visit <https://admin.hp.com/requirements>. The agent collects telemetry and analytics around devices and applications that integrate into the Workforce Experience platform and is not sold as a standalone service. Internet access with connection to the Workforce Experience platform is required. HP follows stringent GDPR privacy regulations, and the platform is ISO27001, ISO27701, ISO27017 and SOC2 Type2 certified for Information Security.

<sup>18</sup> HP Essential Support, HP Premium Support and HP Premium+ Support are available at the time of device purchase. Service levels and response times for HP Care Packs may vary depending on your geographic location. Service starts on date of hardware purchase. Restrictions and limitations apply. For details, visit [www.hp.com/go/cpc](http://www.hp.com/go/cpc). HP services are governed by the applicable HP terms and conditions of service provided or indicated to Customer at the time of purchase. Customer may have additional statutory rights according to applicable local laws, and such rights are not in any way affected by the HP terms and conditions of service or the HP Limited Warranty provided with your HP Product.

<sup>19</sup> Requires an Ambient Color Sensor that is an optional feature that must be configured at time of purchase.

## 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. 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 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>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, 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>7</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>8</sup> Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming.

<sup>9</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>10</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>11</sup> Optional feature must be configured at the time of purchase.

<sup>12</sup> USB 20Gbps speed is not available with Thunderbolt™ 4.

<sup>13</sup> Resolutions are dependent upon monitor capability, and resolution and color depth settings.

<sup>14</sup> HP Sure View integrated privacy screen is an optional feature that must be configured at purchase and is designed to function in landscape orientation.

<sup>15</sup> Actual brightness will be lower with touchscreen or Sure View.

<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> 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>21</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>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> 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>24</sup> Poly Lens Desktop requires a Windows OS.

<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.ext.hp.com/pub/caps-softpaq/cmit/HPIA.html>)

<sup>30</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 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>33</sup> HP Sure Click requires Windows 10 and higher. See <https://bit.ly/2PrLT6A> . SureClick for complete details.

<sup>34</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>35</sup> HP Sure Run is available on select HP PCs and requires Windows 10 and higher.

<sup>36</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>37</sup> HP Sure Start is available on select HP PCs and requires Windows 10 and higher.

<sup>38</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>39</sup> HP BIOSphere Gen6 features may vary depending on the platform and configuration.

<sup>40</sup> HP Secure Erase implements the methods outlined in the National Institute of Standards and Technology Special Publication 800-88: ""Clear"" sanitation method. HP Secure Erase does not support platforms with Intel® Optane™.

<sup>41</sup> HP Fingerprint Reader is an optional feature that requires Windows 10 or 11 and must be configured at purchase.

<sup>42</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>43</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>44</sup> Lock is sold separately.

<sup>45</sup> MobileMark 25 battery life will vary depending on various factors including product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See [www.bapco.com](http://www.bapco.com) for additional details.

<sup>46</sup> Backlit keyboard is an optional feature.

<sup>47</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>48</sup> RJ-45 port must be configured at time of purchase and is not available in all regions.

