

# HP ZBook X G2i 16 inch Mobile Workstation PC

Expert performance. Exceptional value.

Work with generative AI to explore design concepts, or complete 3D modeling and conceptual designs—all on the go. Built to give pros the power they need at an exceptional value<sup>1</sup>, the HP ZBook X delivers advanced AI performance, scalable high-end graphics and memory, and all-day battery life<sup>2</sup>.

**Power through professional workflows.**

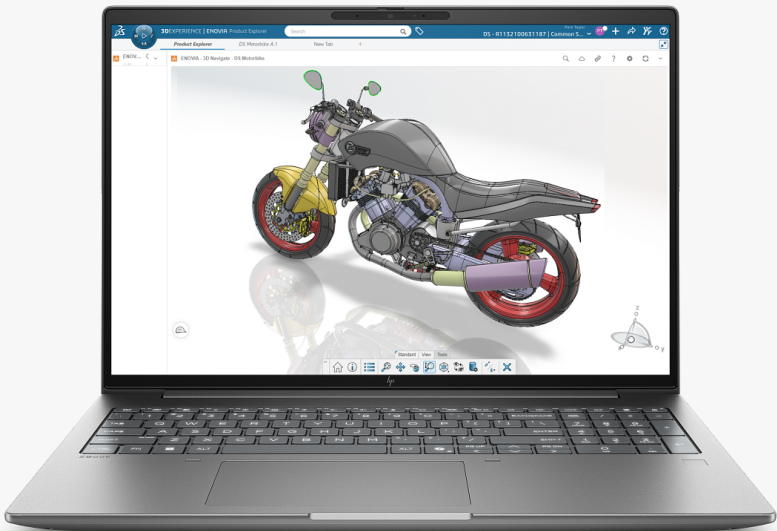
Seamlessly power through 3D modeling, video editing, and rendering. With an Intel® Core™ Ultra 3-series<sup>3</sup>, advanced integrated or discrete graphics<sup>4</sup>, and large memory configurations, ZBook X keeps even demanding workflows running smoothly.

**Advanced workflows. On the move.**

Power your ideas where work takes you. A portable design with advanced thermals keeps cool and quiet while a long-lasting battery<sup>2</sup> and reliable connectivity options<sup>5</sup> help keep you productive on the move.

**Unleash Local AI Power on HP ZBook X**

Save time for your best work with local AI on ZBook X, a Copilot+ PC<sup>3</sup> that powers through advanced workflows so you can focus on ideas—not obstacles.



\*Product image may differ from actual product

**Sustainability in action**

**Designed with purpose**

HP is innovating with purpose to drive impactful, lasting change. This device is ENERGY STAR® certified, EPEAT Gold<sup>6</sup> registered and has attained EPEAT Climate+. Its cover and keycaps are crafted with 50% recycled aluminum and 50% recycled plastics<sup>7</sup>.



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## Featuring

### Power through professional workflows.

Seamlessly power through 3D modeling, video editing, and rendering. With up to an Intel® Core™ Ultra 9 3-Series CPU<sup>3</sup>, up to an optional NVIDIA RTX PRO™ 3000 Blackwell GPU<sup>4</sup>, and up to 128GB DDR5 memory<sup>4</sup>, ZBook X keeps even demanding workflows running smoothly.

### Advanced workflows. On the move.

Power your ideas where work takes you. A portable design with advanced thermals<sup>1</sup> keeps cool and quiet while all-day battery life<sup>2</sup> and Wi-Fi 6 or 7 and optional 5G with HP Go connectivity<sup>5</sup> help keep you productive on the move.

### Unleash Local AI Power on HP ZBook X

Save time for your best work with local AI on ZBook X—a Copilot+ PC with up to 50 TOPS NPU.<sup>3</sup> And with an optional NVIDIA RTX PRO™ 3000 Blackwell GPU with AI TOPS<sup>4</sup>, this PC powers through advanced workflows so you can focus on ideas—not obstacles.

### Designed with purpose

HP is innovating with purpose to drive impactful, lasting change. This device is ENERGY STAR® certified, EPEAT Gold<sup>6</sup> registered and has attained EPEAT Climate+. Its cover and keycaps are crafted with 50% recycled aluminum and 50% recycled plastics<sup>7</sup>.

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

Work anywhere without compromising on performance with Windows 11 and HP collaboration, security, and connectivity technology. Summarize and rewrite content, get relevant content recommendations, and stay organized with Microsoft Copilot.<sup>8,9</sup>

### Intel® Core™ Ultra Processor

Unleash power-efficient performance for the next era of AI-enhanced software with the latest Intel® Core™ Ultra 3-series.<sup>3</sup>

### NVIDIA® Graphics

Experience high-end visualization and seamlessly multi-task on your biggest projects, now with up to an NVIDIA RTX PRO™ 3000 Blackwell GPU certified for pro apps.<sup>10</sup>

### Large Memory Configurations

Power through projects now with 2x the memory gen-over-gen, up to 128GB RAM for fast, powerful performance.<sup>10</sup>

### Lightning-fast Storage

Blitz through multiple tasks with up 8TB NVMe and OPAL2 storage options.<sup>11</sup>

### HP Smart Sense

HP Smart Sense intelligently optimizes your PC's thermal and power management based on your usage. Select full performance mode when completing demanding tasks to maximize performance.<sup>12</sup>

### HP DreamColor Display

Have confidence in what you see on screen with an optional HP DreamColor Display with 100% DCI-P3 color gamut and a 120Hz refresh rate you get smooth motion for high-speed videos.<sup>13,18</sup>

### 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 fast and reliable connection in dense wireless environments with gigabit data rate Wi-Fi 7.<sup>5</sup>

### Poly Camera Pro

Look your best on video calls and save some power too. Manage your video controls for internal and external cameras with Poly Camera Pro. Now Auto Frame, Spotlight, Background Blur, and virtual backgrounds save power running on the NPU.<sup>14</sup>

### HP Power Manager

Manage and monitor your 96whr battery's performance and condition and customize charging options with the easy-to-use Battery Manager in the myHP app.<sup>15,16</sup>

### HP Sure View 6

Work confidently in public with HP Sure View 6 - screen privacy technology that's activated with one keystroke. Sure View reduces visual light to make your screen unreadable when viewed from the side to keep your information private anywhere.

### Stay Connected with HP Go

With the optional HP Go 5G cellular solution, enjoy seamless, out-of-the-box connectivity for effortless communication, collaboration, and creativity that utilizes the strongest stable connection available.<sup>17</sup>



# HP ZBook X G2i 16 inch Mobile Workstation PC

## Technical specifications

|                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Available Operating Systems                | Windows 11 Pro <sup>1</sup><br>Windows 11 Home Single Language - HP recommends Windows 11 Pro for business <sup>1</sup><br>Windows 11 Home - 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<br>Ubuntu 24.04 LTS <sup>9</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Processor family <sup>2,6</sup>            | Intel® Core™ Ultra 9 processor<br>Intel® Core™ Ultra 7 processor<br>Intel® Core™ Ultra 5 processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Available Processors <sup>2,3,4,6,22</sup> | Intel® Core™ Ultra 9 386H (up to 4.9 GHz with Intel® Turbo Boost Technology, 18 MB L3 cache, 16 cores, 16 threads) with Intel® Graphics and Intel® AI Boost (50 NPU TOPS); Intel® Core™ Ultra 7 366H (up to 4.8 GHz with Intel® Turbo Boost Technology, 18 MB L3 cache, 16 cores, 16 threads) with Intel® Graphics and Intel® AI Boost (50 NPU TOPS); Intel® Core™ Ultra 7 356H (up to 4.7 GHz with Intel® Turbo Boost Technology, 18 MB L3 cache, 16 cores, 16 threads) with Intel® Graphics and Intel® AI Boost (50 NPU TOPS); Intel® Core™ Ultra 5 336H (up to 4.6 GHz with Intel® Turbo Boost Technology, 18 MB L3 cache, 12 cores, 12 threads) with Intel® Graphics and Intel® AI Boost (47 NPU TOPS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Neural Processing Unit                     | Intel® AI Boost <sup>6</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Product colour                             | Meteor silver                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Maximum memory                             | 128 GB DDR5-6400 MT/s non-ECC; <sup>7</sup><br>Transfer rates up to 6500 MT/s.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Memory slots                               | 2 SODIMM <sup>8,10</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Internal storage                           | 512 GB up to 4 TB PCIe® Gen5 NVMe™ M.2 SSD <sup>11</sup><br>512 GB up to 2 TB PCIe® NVMe™ Performance M.2 double-sided FIPS 140-2 SED SSD <sup>11</sup><br>512 GB up to 2 TB PCIe® NVMe™ M.2 SED SSD <sup>11</sup><br>512 GB up to 1 TB PCIe® Gen4 NVMe™ M.2 SSD <sup>5,11</sup><br>Up to 8 TB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Display size (diagonal, metric)            | 40.6 cm (16")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Display <sup>24,35,37</sup>                | 16" diagonal, WQUXGA (3840 x 2400), 120 Hz, IPS, anti-glare, micro-edge, 500 nits, HP DreamColor DCI-P3 100%; 16" diagonal, WUXGA (1920 x 1200), IPS, anti-glare, Low Blue Light, 800 nits, sRGB 100%, HP Sure View 6 integrated privacy screen; 16" diagonal, WUXGA (1920 x 1200), 60 Hz, IPS, anti-glare, 300 nits, sRGB 62.5%; 16" diagonal, 2.5K (2560 x 1600), IPS, anti-glare, Low Blue Light, 400 nits, AD-100; 16" diagonal, WUXGA (1920 x 1200), 60 Hz, IPS, anti-glare, Low Blue Light, 400 nits, sRGB 100%; 16" diagonal, WUXGA (1920 x 1200), touch, IPS, anti-glare, 400 nits, sRGB 62.5%<br><br>40 cm (16") diagonal, WUXGA (1920 x 1200), IPS, anti-glare, Low Blue Light, 800 nits, sRGB 100%, HP Sure View Reflect 6 integrated privacy screen; 40 cm (16") diagonal, WQUXGA (3840 x 2400), 120 Hz, IPS, anti-glare, micro-edge, 500 nits, HP DreamColor DCI-P3 100%; 40 cm (16") diagonal, WUXGA (1920 x 1200), 60 Hz, IPS, anti-glare, 300 nits, sRGB 62.5%; 40 cm (16") diagonal, 2.5K (2560 x 1600), IPS, anti-glare, Low Blue Light, 400 nits, AD-100; 40 cm (16") diagonal, WUXGA (1920 x 1200), 60 Hz, IPS, anti-glare, Low Blue Light, 400 nits, sRGB 100%; 40 cm (16") diagonal, WUXGA (1920 x 1200), touch, IPS, anti-glare, 400 nits, sRGB 62.5% |
| Available Graphics                         | Discrete: NVIDIA RTX PRO™ 500 Blackwell Generation Laptop GPU (6 GB GDDR7 dedicated); NVIDIA RTX PRO™ 1000 Blackwell Generation Laptop GPU (8 GB GDDR7 dedicated); NVIDIA RTX PRO™ 2000 Blackwell Generation Laptop GPU (8 GB GDDR7 dedicated); NVIDIA RTX PRO™ 3000 Blackwell Generation Laptop GPU (12 GB GDDR7 dedicated) <sup>21,22,23</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Audio                                      | Audio by Poly Studio, dual stereo speakers, HP World Facing Microphone dual array digital microphones, functions keys for volume up and down, combo microphone/headphone jack, HD audio                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Ports and connectors                       | Left side: 1 HDMI 2.1; 1 power connector; 1 3.5 mm audio combo jack; 1 USB Type-A 5Gbps signaling rate (charges with power-on); 2 Thunderbolt™ 4 with USB Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 2.1) <sup>12,13,14</sup> ;<br>Right side: 1 SD 4.0 card reader; 1 nano security lock slot; 1 USB Type-A 5Gbps signaling rate (charges with power-on); 1 RJ-45 (1Gbps)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Input devices                              | Spill-resistant, backlit keyboard; Clickpad with multi-touch gesture support; Microsoft Precision Touchpad with gesture support; Ambient light sensor; Fingerprint sensor; Hall effect sensor; HP Sure Platform; HP Tamper Lock; Thermal sensor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Communications                             | WLAN: Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card; Intel® Wi-Fi 7 BE211 (2x2) and Bluetooth® 6 wireless card, vPro®; Intel® Wi-Fi 7 BE211 (2x2) and Bluetooth® 6 wireless card, non-vPro® <sup>16,17</sup> ;<br>WWAN: HP R15 5G Solution; HP R15 5G Go Solution <sup>15,18,49</sup> ;<br>LPWAN: HP RW220-GL LTE (Low Power) (CAT-1bis) <sup>19</sup> ;<br>NFC Mirage WNC XRAV-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Camera                                     | FHD camera; 5 MP IR AI camera                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Software                                   | Buy Microsoft Office (sold separately) <sup>58</sup> ; Copilot in Windows with Copilot key <sup>57,61</sup> ; HP Connection Optimizer; HP Hotkey support; HP MAC Address Manager; HP Notifications; HP UEFI BIOS Certification Level 2.9; HP PC Hardware Diagnostics Windows; HP Privacy Settings; HP Services Scan <sup>38</sup> ; HP Smart Support <sup>40</sup> ; HP Support Assistant <sup>51</sup> ; HP App; HSA Fusion for Commercial; HSA Telemetry for Commercial; Poly Camera Pro; Poly Lens <sup>59</sup> ; Edge Customization; Data Science Stack <sup>36</sup> ; Ubuntu Data Science Stack; HP IQ <sup>62</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Security management                        | HP Sure Admin <sup>29,39</sup> ; HP Sure Click <sup>34</sup> ; HP Sure Recover <sup>30</sup> ; HP Sure Run <sup>31</sup> ; HP Sure Sense <sup>37</sup> ; HP Sure Start <sup>32</sup> ; Secured-Core PC Enable <sup>33</sup> ; Windows Hello Enhanced Sign-in Security (ESS) Enable <sup>25</sup> ; Absolute Persistence Module <sup>44</sup> ; HP BIOS Recovery; BIOS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

|                            |                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
|                            | Update via Network; HP BIOSphere; HP DriveLock and Automatic DriveLock; HP Secure Erase; HP Wake on WLAN; Audio Permanent Disable |
| Security Software Licenses | HP Wolf Pro Security Edition <sup>56</sup>                                                                                        |
| Fingerprint reader         | Fingerprint reader (select models)                                                                                                |



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## Technical specifications

|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Management features               | HP Client Catalog (download) <sup>52</sup> ; HP Client Management Script Library (download) <sup>53</sup> ; HP Cloud Recovery <sup>26</sup> ; HP Patch Assistant (download); HP Image Assistant (download) <sup>55</sup> ; HP Manageability Integration Kit (download) <sup>27</sup> ; HP Power Manager with Battery Health Manager (download) <sup>60</sup> ; HP Driver Packs (download) <sup>54</sup> ; HP Connect for Microsoft Endpoint Manager <sup>28</sup> |
| Memory card device                | 1 smart card reader (select models); Nano SIM card slot (optional)                                                                                                                                                                                                                                                                                                                                                                                                |
| Power                             | HP 200 W Slim PFC 4.5 mm Smart (3-pin) AC power adapter; HP 150 W Slim PFC 4.5 mm Smart (3-pin) AC power adapter; 150 W 4.5 mm AC power adapter; 120 W Slim PFC 4.5 mm Smart AC power adapter <sup>42</sup>                                                                                                                                                                                                                                                       |
| Battery type                      | HP Long Life 6 cell, 96 Wh Polymer; HP Long Life 3 cell, 62 Wh Polymer <sup>41</sup> ;                                                                                                                                                                                                                                                                                                                                                                            |
| Battery recharge time             | Supports battery HP fast charge: approximately 50% in 30 minutes <sup>43</sup>                                                                                                                                                                                                                                                                                                                                                                                    |
| Dimensions                        | 14.15 x 9.88 x 0.98 in; 35.9 x 25.1 x 2.49 cm; (Dimensions vary by configuration)                                                                                                                                                                                                                                                                                                                                                                                 |
| Weight                            | Starting at 4.41 lb; Starting at 1.9 kg; (Weight varies by configuration and components.)                                                                                                                                                                                                                                                                                                                                                                         |
| Ecolabels                         | EPEAT Gold with Climate+ <sup>64</sup>                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Energy star certified             | ENERGY STAR® certified                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Sustainable impact specifications | Low halogen PCAs; Molded paper pulp cushion inside box is made of 100% recycled or certified sources; Outside box and corrugated cushions are 100% from certified or recycled sources and recyclable; At least 60% post-consumer recycled plastic; Bulk packaging available; External power supply 90% efficiency <sup>45,46,47,48,50</sup>                                                                                                                       |



# HP ZBook X G2i 16 inch Mobile Workstation PC

## Footnotes

### Messaging Footnotes

<sup>8</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>9</sup> Microsoft Copilot requires Windows 11. Some features require an NPU. Timing and availability will be dependent on Microsoft and varies by market and device. Requires Microsoft account to log in. Where Copilot is not available, the Copilot key will lead to the Bing search engine. See <http://aka.ms/WindowsAIFeatures>.

<sup>10</sup> Memory is an optional feature that must be configured at purchase.

<sup>11</sup> For hard drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30GB (for Windows 10) of system disk is reserved for system recovery software.

<sup>1</sup> Compared to previous generations of HP ZBook X.

<sup>2</sup> Up to 19 hours battery life with (MM30) and 96whr battery. Based on preliminary engineering estimates. Battery life will vary depending on the product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See MobileMark30 battery benchmark.

<sup>3</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. Optional feature that must be configured at purchase. 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. Performance varies by use, configuration, and other factors.

<sup>4</sup> Graphics and memory are optional features that must be configured at purchase. Visit <https://www.nvidia.com/en-us/products/workstations/professional-laptops/compare/> to view GPU specifications and performance.

<sup>5</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. 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. Available on select configurations.

<sup>6</sup> This product has been verified to meet ENERGY STAR® requirements. ENERGY STAR and the ENERGY STAR logo are registered trademarks of the U.S. Environmental Protection Agency. Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit [www.epeat.net](http://www.epeat.net) for more information. EPEAT tier levels may vary by country. See [www.epeat.net](http://www.epeat.net) for registration status and tier levels by country.

<sup>7</sup> Post-consumer recycled plastic is expressed as a percentage of the total weight of the plastic, based on the definition set in the EPEAT criteria.

<sup>12</sup> HP Smart Sense requires Windows 10 or higher.

<sup>13</sup> All specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

<sup>14</sup> Requires Windows OS.

<sup>15</sup> HP Power Manager requires Windows 10 and higher and can be downloaded from the Microsoft Store.

<sup>16</sup> Requires myHP application and Windows OS.

<sup>17</sup> HP 5G module is optional and must be configured at the factory. Module designed for 5G NR NSA (non-standalone) networks as carriers deploy Evolved-Universal Terrestrial Radio Access New Radio Dual Connectivity (ENDC) with both 100Mhz of 5G NR and LTE channel bandwidth, using 256QAM 4x4 as defined by 3GPP. Module requires activation and separately purchased service contract. Check with service provider for coverage and availability in your area. Data connection, upload and download speeds will vary due to network, location, environment, network conditions, and other factors. Backwards compatible to 4G LTE and 3G HSPA technologies. 5G module planned to be available in select platforms and select countries, where carrier supported. HP Go is available as a separate subscription in North America, requires 5G and must be configured at the time of purchase on select HP commercial laptops and workstations.

<sup>18</sup> Optional feature 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 11 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. See <http://www.windows.com>.

<sup>2</sup> 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> Second Storage is not available with NVIDIA RTX™ Pro 3000 Graphics.

<sup>6</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>7</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>8</sup> Maximized dual-channel performance requires SODIMMs of the same size and speed in both memory channels.

<sup>9</sup> Not all features are available in all editions or versions of Ubuntu. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS to take full advantage of Ubuntu functionality. Ubuntu may be automatically updated. ISP fees may apply and additional requirements may apply over time for updates.

<sup>10</sup> Maximum memory capacities assume Windows 64-bit operating systems. With Windows 32-bit operating systems, memory above 3 GB may not all be available due to system resource requirements.

<sup>11</sup> For storage drives GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 35 GB (for Windows 10) is reserved for system recovery software.

<sup>12</sup> Thunderbolt™ 4 and USB4™ maximum speed of 40Gbps will be divided between the different data workstreams.

<sup>13</sup> HDMI cable sold separately.

<sup>14</sup> SuperSpeed USB 20Gbps is not available with Thunderbolt™ 4.

<sup>15</sup> HP 5G module is optional and must be configured at the factory. Module designed for 5G NR NSA (non-standalone) networks as carriers deploy Evolved-Universal Terrestrial Radio Access New Radio Dual Connectivity (ENDC) with both 100Mhz of 5G NR and LTE channel bandwidth, using 256QAM 4x4 as defined by 3GPP. Module requires activation and separately purchased service contract. Check with service provider for coverage and availability in your area. Data connection, upload and download speeds will vary due to network, location, environment, network conditions, and other factors. Backwards compatible to 4G LTE and 3G HSPA technologies. 5G module planned to be available in select platforms and select countries, where carrier supported.

<sup>16</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>17</sup> Wi-Fi 6E requires a Wi-Fi 6E router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 6E is backwards compatible with prior 802.11 specs. And available in countries where Wi-Fi 6E is supported. Wi-Fi 6E is designed to support gigabit data rate when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 80MHz and higher channels.

- <sup>18</sup> WWAN is an optional feature and requires factory configuration and 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, and in all regions.
- <sup>19</sup> Cat M1 LPWAN (Mobile Narrowband) cards support select platforms with the HP Protect & Trace with Wolf Connect service, but do not support mobile broadband/Internet use.
- <sup>21</sup> Support HD decode, DX12, HDMI 1.4, HDCP 2.2 via DP up to 4K @ 60Hz and via HDMI up to 4K @ 30Hz.
- <sup>22</sup> Intel vPro® requires Windows 10 Pro 64 bit or higher, a vPro supported processor, vPro enabled chipset, vPro enabled wired LAN and/or Wi-Fi 6E WLAN and TPM 2.0. Some functionality requires additional 3rd party software in order to run. Features of vPro® Essentials and Enterprise vary. See <http://intel.com/vPro>.
- <sup>23</sup> Both UMA & Discrete configurations support 3 independent displays when on the HP UltraSlim Dock (sold separately) - Max. resolution = 2.5K @60Hz (DP1) & 2.5K @60Hz (DP2) & FHD (VGA), and support 3 independent displays when on the HP Thunderbolt Dock G2 (sold separately) - Max. resolution = 2.5K @60Hz (DP1) & 2.5K @60Hz (DP2) & FHD (VGA) OR 4K @60Hz (one DP Port) & 4K @60Hz (Type-C output port using a Type C-to-DP adapter).
- <sup>24</sup> HD content required to view HD images.
- <sup>25</sup> Windows Hello face authentication utilizes a camera specially configured for near infrared (IR) imaging to authenticate and unlock Windows devices as well as unlock your Microsoft Passport.
- <sup>26</sup> HP Cloud Recovery is available for Z by HP, HP Elite and Pro desktops and laptops PCs with Intel® or AMD processors and requires an open, network connection. Note: You must back up important files, data, photos, videos, etc. before use to avoid loss of data. Detail please refer to: <https://support.hp.com/us-en/document/c05115630>
- <sup>27</sup> HP Manageability Integration Kit can be downloaded from <http://www8.hp.com/us/en/ads/clientmanagement/overview.html>.
- <sup>28</sup> HP Connect for Microsoft Endpoint Manager is available from the Azure Market Place for HP Pro, Elite, Z and Point-of-Sale PCs managed with Microsoft Endpoint Manager. Subscription to Microsoft Endpoint Manager required and sold separately. Network connection required.
- <sup>29</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>30</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>31</sup> HP Sure Run is available on select HP PCs and requires Windows 10 and higher.
- <sup>32</sup> HP Sure Start is available on select HP PCs and requires Windows 10 and higher.
- <sup>33</sup> Secured-Core PC Enable requires an Intel® vPro®, AMD Ryzen™ Pro processor or Qualcomm® processor with SD850 or higher and requires 8 GB or more system memory. Secured-core PC is enabled from the factory.
- <sup>34</sup> HP Sure Click requires Windows 10 Pro or higher or Enterprise. See [https://bit.ly/2PrLT6A\\_SureClick](https://bit.ly/2PrLT6A_SureClick) for complete details.
- <sup>35</sup> HP Sure View Reflect integrated privacy screen is an optional feature that must be configured at purchase and is designed to function in landscape orientation.
- <sup>36</sup> HP App requires Windows OS.
- <sup>37</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>38</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>39</sup> HP Tamper Lock is an optional feature that must be configured at the factory and requires a supervisor password be established prior to use.
- <sup>40</sup> HP Smart Support requires the HP Insights agent to be installed. For more information about how to enable or to download HP Smart Support, please visit <http://www.hp.com/smart-support>. HP Services Scan is preinstalled and/or provided thru Windows Update and will check entitlement on each hardware device to determine if an HP Insights agent-enabled service has been purchased, and will download applicable software automatically. HP Insights agent is a telemetry and analytics platform that provides critical data around devices and applications and is not sold as a standalone service. HP follows stringent GDPR privacy regulations and is ISO27001, ISO27701, ISO27017 and SOC2 Type2 certified for Information Security. Internet access is required. For full system requirements or to disable this feature, please visit <https://www.hpdaas.com/requirements>.
- <sup>41</sup> For new batteries, actual battery Watt-hours (Wh) may differ from the design capacity and may have a full charge capacity that differs by up to 10, which is typical for lithium-ion batteries. Battery capacity naturally decreases over time and with use, depending on several factors such as battery health management settings, shelf life, temperature, environment, loaded apps, features, system configuration, and power settings.
- <sup>42</sup> 150 W power adapter is only available with discrete graphic options.
- <sup>43</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>44</sup> HP BIOSphere Gen6 features may vary depending on the platform and configuration.
- <sup>45</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>46</sup> Recycled plastic is expressed as a percentage of the total weight plastic. Recycled content is based on the definition set in the EPEAT criteria.
- <sup>47</sup> Fiber used in paper-based packaging is sourced from certified or recycled sources per HP's Paper Sourcing Policy; certifications such as FSC® apply at the supplier level. Packaging parts contain certified or recycled fibers and are typically recycled in your local paper/carton recycling bin, consult your local guidelines.
- <sup>48</sup> Ocean Bound plastic is based on the definition set by the UL2809 standard.
- <sup>49</sup> Select SKUs of HP Commercial PC and workstations are configured for HP Go activation. HP Go service plan sold separately.
- <sup>50</sup> External power supplies, WWAN modules, power cords, cables and peripherals excluded. Service parts obtained after purchase may not be Low Halogen.
- <sup>51</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>52</sup> HP Client Catalog not preinstalled, however available for download at <https://www.hp.com/us-en/solutions/client-management-solutions.html>.
- <sup>53</sup> HP Client Management Script Library <https://www.hp.com/us-en/solutions/client-management-solutions.html#tab=manageability-tools>.
- <sup>54</sup> HP Driver Packs not preinstalled, however available for download at <http://www.hp.com/go/clientmanagement>.
- <sup>55</sup> HP Image Assistant not preinstalled, however available for download at <https://ftp.ext.hp.com/pub/caps-softpaq/cmit/HPIA.html>.
- <sup>56</sup> HP Wolf Security for Business requires Windows 10 or 11 Pro or higher, includes various HP security features and is available on HP Pro, Elite, RPOS and Workstation products. See product details for included security features.
- <sup>57</sup> Copilot+ in Windows requires Windows 11. Some features require an NPU. Timing of feature delivery and availability varies by market and device. Requires Microsoft account to log in. Where Microsoft in Windows is not available, the Copilot key will lead to the Bing search engine. See [aka.ms/copilotpluspcs](https://aka.ms/copilotpluspcs).
- <sup>58</sup> Microsoft Office sold separately and requires Internet access for activation.
- <sup>59</sup> Poly Lens Desktop requires a Windows OS.
- <sup>60</sup> HP Power Manager with Battery Health can be downloaded by entering your system information here: [https://support.hp.com/in-en/document/ish\\_4449597-3519507-16](https://support.hp.com/in-en/document/ish_4449597-3519507-16).
- <sup>61</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>62</sup> HP IQ delivery app is preloaded on select HP PCs; it will be automatically updated to the future featured HP IQ application if you have auto updates enabled in Windows or will be available for download from the Microsoft Store. The future featured HP IQ app uses artificial intelligence. Features vary by configuration. For complete details see [https://support.hp.com/us-en/document/ish\\_13696672-13696717-16](https://support.hp.com/us-en/document/ish_13696672-13696717-16).
- <sup>64</sup> EPEAT registered where applicable, tier levels may vary by country. See [www.epeat.net](http://www.epeat.net) for registration status and tier levels by country.

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