

# HP ZBook Fury 16 G9 Mobile Workstation PC

So powerful you'll forget it's a laptop



**Tackle your most intense workflows with the ZBook Fury—now offering a desktop CPU in a laptop. With integrated or discrete graphics, a stunning display and collaboration features you can edit 8K videos, render in 3D or train machine learning models. Experience extreme pro performance—all on the move.**

## **Tackle multiple heavy workflows—simultaneously**

Get a desktop class Intel® CPU<sup>1</sup> for unthrottled pro performance.<sup>2</sup> Powered by an NVIDIA RTX™ Laptop GPU or AMD Radeon™ Pro GPU,<sup>3</sup> and improved thermals, you can simultaneously tackle multiple complex projects at once.

## **Upgrade. Expand. Evolve**

Get desktop-level storage and memory with slots for up to 128GB of RAM,<sup>4</sup> and capacity for up to 12TB of storage.<sup>4,5</sup> Expansion is simple with tool-free access to removable components, and an extensive port selection to connect to critical accessories.

## **Immerse in your work**

Unlock complete color accuracy and see more of your work with a 16:10 HP DreamColor display.<sup>6</sup> Get smooth motion for video editing with its 120Hz refresh rate.<sup>6</sup> Customize your keyboard lighting and highlight shortcuts with RGB per-key LED backlighting.<sup>7</sup>

## **Create. Communicate. Collaborate**

Collaborate on your most intense projects wherever you go. The AI enhanced auto-framing 5MP camera,<sup>8</sup> discrete audio amps to block background noises and next-gen Wi-Fi 6E<sup>9,10</sup> or 5G options<sup>11</sup> let you seamlessly connect from almost anywhere.



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## Additional Features

### Windows 11

Work anywhere without compromising on performance or security with Windows 11<sup>12</sup> powered by HP's collaboration and connectivity technology.

### Lightning-Fast Storage

Blitz through multiple tasks and ditch external drives with up to 12 TB local NVMe storage.<sup>4,5</sup>

### Large Memory Configurations

Accelerate your workflow. Power through projects with up to 128 GB RAM<sup>13</sup> for fast rendering, editing and visual effects performance.

### Professional Graphics

Tackle your biggest projects with a choice of Powered by NVIDIA RTX™ Laptop GPU or AMD Radeon™ Pro GPU;<sup>3</sup> certified for pro apps.

### Intel® Core™ Processor

Crank up your multi-tasking and productivity with a desktop class processor. Ensure immersive interactivity with up to Intel vPro® with 12th Gen Intel® Core™ i9 processor<sup>1,3,14</sup> designed to handle complex, multithreaded apps.

### Multiple Ports for Maximum Productivity

Connect to everything you need with a wide-range of connectivity options: multiple Thunderbolt™ 4 with USB Type-C®,<sup>15</sup> HDMI 2.1 or HDMI 2.0b,<sup>16</sup> Mini DisplayPort™, SD Card Reader, headphone/microphone combo jack and more.

### HP Auto Frame<sup>8</sup>

Move around a little without losing viewers' attention during video calls with HP Auto Frame.<sup>8</sup> The camera and audio follow you or multiple presenters as they move within the camera's frame.

### DNN Noise Suppression

Collaborate with confidence with advanced features like DNN Noise Suppression to suppress background noise for crisp, clear calls.<sup>17</sup>

### Z Light Space

Personalize your laptop RGB lighting in one place. With Z Light Space software,<sup>18</sup> you can customize your keyboard lighting with the RGB per-key LED backlighting.<sup>19</sup> For commonly used software apps, use pre-loaded color-maps or create your own.

### Work, Play, and Create in VR

Elevate your workflow with a VR-ready laptop. Develop lifelike content and transform how you design, train, and collaborate. And when paired with the HP Reverb G2 VR Headset, you get stunning immersion with full-resolution rendering.<sup>20</sup>

### 16:10 Aspect Ratio

Now with a 16:10 aspect ratio you get 11% more usable screen area than 16:9, for productivity and creative tasks. With more vertical screen space reduce the need to scroll and see more of your project without minimizing program menus or toolbars.

### Data Science Software Stack

Save countless days installing, configuring and maintaining your data science environment by choosing the preloaded software stack with your choice of Ubuntu or Windows with Windows Subsystem for Linux 2 (WSL 2) pre-installed.<sup>21</sup>



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## Specifications Table

<b>Available Operating Systems</b>	Windows 11 Pro <sup>1</sup> Windows 11 Home – HP recommends Windows 11 Pro for business <sup>1</sup> Windows 10 Pro (available through downgrade rights from Windows 11 Pro); Windows 11 Pro (preinstalled with Windows 10 Pro Downgrade) <sup>1,2</sup> Ubuntu 20.04 FreeDOS 3.0
<b>Processor family<sup>3,4,5,19,25</sup></b>	12th Generation Intel® Core™ i5 processor; 12th Generation Intel® Core™ i7 processor; 12th Generation Intel® Core™ i9 processor
<b>Available Processors</b>	Intel® Core™ i9-12950HX with Intel® UHD Graphics (1.7 GHz E-core base frequency, 2.3 GHz P-core base frequency, up to 3.6 GHz E-core Max Turbo frequency, up to 5.0 GHz P-core Max Turbo frequency, 30 MB L3 cache, 8 P-cores and 8 E-cores, 24 threads) Intel® Core™ i9-12900HX with Intel® UHD Graphics (1.7 GHz E-core base frequency, 2.3 GHz P-core base frequency, up to 3.6 GHz E-core Max Turbo frequency, up to 5.0 GHz P-core Max Turbo frequency, 30 MB L3 cache, 8 P-cores and 8 E-cores, 24 threads) Intel® Core™ i7-12850HX with Intel® UHD Graphics (1.5 GHz E-core base frequency, 2.1 GHz P-core base frequency, up to 3.4 GHz E-core Max Turbo frequency, up to 4.8 GHz P-core Max Turbo frequency, 25 MB L3 cache, 8 P-cores and 8 E-cores, 24 threads) Intel® Core™ i7-12800HX with Intel® UHD Graphics (1.5 GHz E-core base frequency, 2.0 GHz P-core base frequency, up to 3.4 GHz E-core Max Turbo frequency, up to 4.8 GHz P-core Max Turbo frequency, 25 MB L3 cache, 8 P-cores and 8 E-cores, 24 threads) Intel® Core™ i5-12600HX with Intel® UHD Graphics (1.8 GHz E-core base frequency, 2.5 GHz P-core base frequency, up to 3.3 GHz E-core Max Turbo frequency, up to 4.6 GHz P-core Max Turbo frequency, 18 MB L3 cache, 8 P-cores and 8 E-cores, 16 threads) Intel® Core™ i9-12950HX with Intel® UHD Graphics (1.7 GHz E-core base frequency, 2.3 GHz P-core base frequency, up to 3.6 GHz E-core Max Turbo frequency, up to 5.0 GHz P-core Max Turbo frequency, 30 MB L3 cache, 8 P-cores and 8 E-cores, 24 threads), supports Intel® vPro® Technology Intel® Core™ i7-12850HX with Intel® UHD Graphics (1.5 GHz E-core base frequency, 2.1 GHz P-core base frequency, up to 3.4 GHz E-core Max Turbo frequency, up to 4.8 GHz P-core Max Turbo frequency, 25 MB L3 cache, 8 P-cores and 8 E-cores, 24 threads), supports Intel® vPro® Technology Intel® Core™ i5-12600HX with Intel® UHD Graphics (1.8 GHz E-core base frequency, 2.5 GHz P-core base frequency, up to 3.3 GHz E-core Max Turbo frequency, up to 4.6 GHz P-core Max Turbo frequency, 18 MB L3 cache, 8 P-cores and 8 E-cores, 16 threads), supports Intel® vPro® Technology
<b>Chipset</b>	Intel® WM690
<b>Maximum memory</b>	128 GB DDR5-4800 ECC SODIMM; 128 GB DDR5-4800 non-ECC SODIMM <sup>7</sup> Transfer rates up to 4000 MT/s.
<b>Memory slots</b>	4 SODIMM; supports dual channel <sup>8,9,10</sup>
<b>Internal storage</b>	256 GB up to 4 TB PCIe® Gen4 x4 NVMe™ M.2 SSD <sup>11</sup> 256 GB up to 4 TB PCIe® NVMe™ M.2 SED SSD <sup>11</sup>
<b>Maximum storage capacity</b>	Up to 12 TB
<b>Display size (diagonal)</b>	15.6"; 16"
<b>Display size (diagonal, metric)</b>	39.6 cm (15.6"); 40.6 cm (16")
<b>Display</b>	15.6" diagonal, FHD (1920 x 1080), IPS, anti-glare, 250 nits, 45% NTSC; 16" diagonal, WQUXGA (3840 x 2400), OLED, touch, BrightView, eDP + PSR, micro-edge, Low Blue Light, 400 nits, 100% DCI-P3; 16" diagonal, WQUXGA (3840 x 2400), 120 Hz, IPS, anti-glare, eDP + PSR, micro-edge, 500 nits, 100% DCI-P3, HP DreamColor; 16" diagonal, WUXGA (1920 x 1200), IPS, anti-glare, eDP + PSR, micro-edge, 400 nits, 100% sRGB; 16" diagonal, WUXGA (1920 x 1200), IPS, anti-glare, eDP + PSR, micro-edge, 1000 nits, 100% sRGB, HP Sure View integrated privacy screen <sup>21,23,32</sup> 39.6 cm (15.6") diagonal, FHD (1920 x 1080), IPS, anti-glare, 250 nits, 45% NTSC; 40.6 cm (16") diagonal, WQUXGA (3840 x 2400), OLED, touch, BrightView, eDP + PSR, micro-edge, Low Blue Light, 400 nits, 100% DCI-P3; 40.6 cm (16") diagonal, WQUXGA (3840 x 2400), 120 Hz, IPS, anti-glare, eDP + PSR, micro-edge, 500 nits, 100% DCI-P3, HP DreamColor; 40.6 cm (16") diagonal, WUXGA (1920 x 1200), IPS, anti-glare, eDP + PSR, micro-edge, 400 nits, 100% sRGB; 40.6 cm (16") diagonal, WUXGA (1920 x 1200), IPS, anti-glare, eDP + PSR, micro-edge, 1000 nits, 100% sRGB, HP Sure View integrated privacy screen <sup>21,23,32</sup>
<b>Available Graphics</b>	Integrated: Intel® UHD Graphics Discrete: NVIDIA RTX™ A1000 Laptop GPU (4 GB GDDR6 dedicated) NVIDIA RTX™ A4500 Laptop GPU (16 GB GDDR6 dedicated) NVIDIA RTX™ A5500 Laptop GPU (16 GB GDDR6 dedicated) NVIDIA RTX™ A2000 Laptop GPU (8 GB GDDR6 dedicated) NVIDIA RTX™ A3000 Laptop GPU (12 GB GDDR6 dedicated) AMD Radeon™ Pro 6600M Graphics (8 GB GDDR6 dedicated) (Discrete graphics options planned to be available at a later date and require factory configuration at the time of hardware purchase.)
<b>Audio</b>	Audio by Bang & Olufsen, dual stereo speakers with discrete amps, HP World Facing Microphone dual array digital microphones, functions keys for volume up and down, combo microphone/headphone jack, HD audio with 200Hz Bass Roll off <sup>45</sup>
<b>Memory card device <sup>58</sup></b>	1 SD 7.0 media card reader (select models)
<b>Ports and Connectors</b>	Right side: 1 RJ-45; 1 headphone/microphone combo; 1 SuperSpeed USB Type-A 5Gbps signaling rate (charging); 1 SuperSpeed USB Type-A 5Gbps signaling rate ; Left side: 1 power connector; 1 Mini DisplayPort™ 1.4; 2 Thunderbolt™ 4 with USB4™ Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4, HP Sleep and Charge); 1 HDMI 2.1 <sup>6,15,24,48,57</sup>
<b>Keyboard</b>	HP Premium Quiet Keyboard, spill-resistant, full-size, backlit, keyboard with a Programmable Key and numeric keypad; HP RGB Keyboard - Full-size, per-key RGB backlit keyboard
<b>Mouse</b>	Extra large, QuietKey, 3-button touchpad



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## Specifications Table

	LAN: Intel® I219-LM GbE, vPro®; Intel® I219-V GbE, non-vPro® <sup>44</sup> ;
<b>Communications</b>	WLAN: Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card, vPro®; Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card, non-vPro® <sup>13</sup> ; WWAN: Intel® XMM™ 7560 LTE Advanced Pro Cat 16; Intel® 5G Solution 5000 <sup>14</sup> ;
<b>Camera</b>	5MP IR Camera <sup>17,18</sup>
<b>Software</b> <sup>26,28,29,33,35,36,39,54</sup>	Bing search for IE11 Buy Office HP Hotkey Support HP Noise Cancellation Software HP Performance Advisor HP Recovery Manager HP Remote Graphics Software HP Support Assistant HP JumpStart Native Miracast support HP Connection Optimizer Adobe® Creative Cloud HP Cloud Recovery HP Admin HP Privacy Settings HP QuickDrop Data Science Stack HP Easy Clean HP PC Hardware Diagnostics HP ZCentral Remote Boost 2020 Software for Z workstation Tile™ Application
<b>Available software</b>	HP Smart Support <sup>43</sup>
<b>Security management</b> <sup>22,27,30,31,34,38,40,46,47,49,50,51</sup>	Absolute persistence module HP Device Access Manager HP Power On Authentication HP Security Manager Integrated smart card reader Master Boot Record security Pre-boot authentication HP Sure Click Windows Defender HP Secure Erase HP Manageability Integration Kit HP Sure Sense HP Secure Platform HP Sure Recover Gen3 HP BIOSphere Gen6 HP Sure Start Gen6 HP Sure Run Gen3 HP Tamper Lock Nano Security Lock Slot HP Client Security Suite Gen7 Trusted Platform Module TPM 2.0 Windows Secured Core Camera privacy shutter HP Sure View Reflect
<b>Security Software Licenses</b>	HP Wolf Pro Security Edition <sup>56</sup>
<b>Fingerprint reader</b>	Fingerprint sensor (select models)
<b>Management features</b>	HP Power Manager <sup>16</sup>
<b>Power</b>	HP Slim Smart 150 W External AC power adapter; HP Slim Smart 200 W External AC power adapter; HP Slim Smart 230 W External AC power adapter <sup>20</sup>
<b>Battery type</b>	HP Long Life 8-cell, 95 Wh Li-ion polymer <sup>37,53</sup>
<b>Battery life</b>	Up to 15 hours and 41 minutes
<b>Dimensions</b>	14.29 x 9.86 x 1.09 in (WWAN); 14.29 x 9.86 x 1.12 in (non-WWAN); 36.3 x 25.06 x 2.865 cm (non-WWAN); 36.3 x 25.06 x 2.775 cm (WWAN)
<b>Weight</b>	Starting at 5.27 lb; Starting at 2.39 kg
<b>Ecolabels</b>	EPEAT® registered configurations available <sup>41</sup>
<b>Sustainable impact specifications</b>	Low Halogen; 40% post-consumer recycled plastic; Bulk packaging available; External power supply 90% efficiency; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable; Outside box and corrugated cushions are 100% sustainably sourced and recyclable; Ocean-bound plastic in speaker enclosure(s) <sup>12,42,52,55,59</sup>



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## Accessories and services (not included)

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### HP USB-C to HDMI 2.0



Collaborate on the fly in conference rooms, team rooms, and more when your project your notebook or mobile device's high-definition video and audio content to an external display, TV or projector with the HP USB-C to HDMI 2.0 Adapter.

**Product number: 1WC36AA**

### HP Prelude Pro 15.6-inch Recycled Top Load



Commute with a stylish and durable top load thoughtfully designed with the environment in mind and made with recycled fabric<sup>1</sup>. The HP Prelude Pro Recycled Top load comes with safety features for your peace of mind when you carry your devices from work to home and beyond.

**Product number: 1X645AA**

### HP 235 Wireless Mouse and Keyboard Combo



Experience a keyboard and mouse combo that's comfortable, sleek and quiet. Now you can be at your most efficient with the least amount of noise. Plus, with keyboard shortcuts and long-lasting batteries, you can stay productive all day long.

**Product number: 1Y4D0AA**

### HP Thunderbolt Dock 120W G2



Reinvent docking and boost productivity with our most versatile Thunderbolt™ dock, the small, sophisticated HP Thunderbolt Dock G2. Designed for workspace flexibility and network manageability<sup>1</sup>, it delivers USB-C™<sup>2</sup> device connectivity and optional integrated audio.<sup>3</sup>

**Product number: 2UK37AA**



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## Messaging Footnotes

- <sup>1</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>2</sup> Unthrottled in Best Performance Mode and when plugged in.
- <sup>3</sup> Optional feature that must be configured at purchase.
- <sup>4</sup> Optional, configurable feature.
- <sup>5</sup> For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 35GB (for Windows) is reserved for system recovery software.
- <sup>6</sup> HP DreamColor display with 120Hz refresh rate is an optional feature that must be configured at purchase.
- <sup>7</sup> RGB keyboard is an optional, configurable feature. Available only in the US, UK, Germany and France only.
- <sup>8</sup> Requires the myHP application and Windows OS.
- <sup>9</sup> Wi-Fi 6E is an optional feature that must be configured at purchase.
- <sup>10</sup> Wi-Fi 6E requires a Wi-Fi 6E router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 6E is backwards compatible with prior 802.11 specs. And available in countries where Wi-Fi 6E is supported.
- <sup>11</sup> Intel® 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>12</sup> NVIDIA RTX™ A2000 and higher GPU or AMD Radeon Pro GPU required for 3D rendering.
- <sup>13</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>14</sup> Up to 128 GB memory is an optional, configurable feature.
- <sup>15</sup> For full Intel® vPro® functionality, Windows 10 Pro 64 bit, a vPro supported processor, vPro enabled chipset, vPro enabled wired LAN and/or WLAN card and TPM 2.0 are required. Some functionality requires additional 3rd party software in order to run. See <http://intel.com/vpro>
- <sup>16</sup> SuperSpeed USB 20Gbps is not available with Thunderbolt™ 4
- <sup>17</sup> HDMI cables are sold separately. HDMI 2.1 requires discrete graphics, HDMI 2.0b requires integrated graphics.
- <sup>18</sup> DNN Noise Reduction is delivered automatically through Windows update or can be downloaded from <https://support.hp.com/us-en/drivers>. Requires Windows 10 or higher, compatible with internal PC speakers, microphone and analog headsets. The DNN Noise Reduction setting can be configured through the Application HP Audio Control.
- <sup>19</sup> 2 Light Space requires Windows 10 or higher.
- <sup>20</sup> RGB keyboard is an optional, configurable feature. Available only in the US, UK, Germany and France only.
- <sup>21</sup> See minimum spec requirements to run VR headset at max resolution at <https://www8.hp.com/h20195/v2/GetPDF.aspx/c06630565.pdf>
- <sup>22</sup> WSL2 requires Windows 10 or higher, Intel Core i5 processor or higher and is available on select Z workstations. You must be running Windows 10 version 2004 and higher (Build 19041 and higher) or Windows 11.

## Technical Specifications 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> This system is preinstalled with Windows 10 Pro software and also comes with a license for Windows 11 Pro software and provision for recovery software. You may only use one version of the Windows software at a time. Switching between versions will require you to uninstall one version and install the other version. You must back up all data (files, photos, etc.) before uninstalling and installing operating systems to avoid loss of your data.
- <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.
- <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> In accordance with Microsoft's support policy, HP does not support the Windows 8 or Windows 7 operating system on products configured with Intel and AMD 7th generation and forward processors or provide any Windows 8 or Windows 7 drivers on <http://www.support.hp.com>
- <sup>6</sup> HDMI port-cable not included.
- <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> Intel® allows architectures designed with four DIMM slots to run at 2400 MT/s.
- <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 35GB (for Windows) is reserved for system recovery software.
- <sup>12</sup> Percentage of ocean-bound plastic contained in each component varies by product.
- <sup>13</sup> Wi-Fi 6E requires a Wi-Fi 6E router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 6E is backwards compatible with prior 802.11 specs. And available in countries where Wi-Fi 6E is supported.
- <sup>14</sup> WWAN use requires separately purchased service contract. Check with service provider for coverage and availability in your area. Connection speeds will vary due to location, environment, network conditions, and other factors. 4G LTE not available on all products, and in all regions.
- <sup>15</sup> Mini DisplayPort 1.4 with discrete, 1.2 with UMA.
- <sup>16</sup> Manage and monitor your battery's performance and condition and customize charging options with the easy-to-use HP Power Manager dashboard.
- <sup>17</sup> FHD and HD content required to view HD images respectively.
- <sup>18</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>19</sup> Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.
- <sup>20</sup> 120 W power adapter is configurable with Intel UMA graphics. 150 W power adapter is configurable with NVIDIA T1000 and T2000 configurations. 200 W power adapter is configurable with NVIDIA RTX 3000 or higher and AMD graphic configurations.
- <sup>21</sup> UHD content required to view UHD images.
- <sup>22</sup> HP BIOSphere Gen6 features may vary depending on the platform and configuration.
- <sup>23</sup> Resolutions are dependent upon monitor capability, and resolution and color depth settings.
- <sup>24</sup> SuperSpeed USB 20Gbps is not available with Thunderbolt™ 4.
- <sup>25</sup> For full Intel® vPro® functionality, Windows 10 Pro 64 bit or Windows 11 Pro 64 bit, a vPro supported processor, vPro enabled chipset, vPro enabled wired LAN and/or WLAN card and TPM 2.0 are required. Some functionality requires additional 3rd party software in order to run. See <http://intel.com/vpro>.
- <sup>26</sup> HP Cloud Recovery is available for HP Elite and Pro desktops and laptops PCs with Intel® or AMD processors and requires an open, wired 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 Sure Click requires Windows 10 Pro or higher or Enterprise. See <https://bit.ly/2PrLT6A> SureClick for complete details
- <sup>28</sup> Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming media players that also support Miracast. You can use Miracast to share what you're doing on your PC and present a slide show. For more information: <http://windows.microsoft.com/en-us/windows-8/project-wireless-screen-miracast>.
- <sup>29</sup> HP Performance Advisor Software - HP Performance Advisor is ready and waiting to help you get the most out of your HP Workstation from day one—and every day after. Learn more or download at: <https://www8.hp.com/us/en/workstations/performance-advisor.html>
- <sup>30</sup> HP Manageability Integration Kit can be downloaded from <http://www.hp.com/go/clientmanagement>
- <sup>31</sup> Absolute Persistence Module: Absolute agent is shipped turned off, and will be activated when customers activate a purchased subscription. Subscriptions can be purchased for terms ranging multiple years. Service is limited, check with Absolute for availability outside the U.S. The Absolute Recovery Guarantee is a limited warranty. Certain conditions apply. For full details visit: <http://www.absolute.com/company/legal/agreements/comprtrace-agreement>. Data Delete is an optional service provided by Absolute Software. If utilized, the Recovery Guarantee is null and void. In order to use the Data Delete service, customers must first sign a Pre-Authorization Agreement and either obtain a PIN or purchase one or more RSA SecurID tokens from Absolute Software.
- <sup>32</sup> Actual brightness will be lower with HP Sure View or touch-screen.
- <sup>33</sup> HP Quick Drop requires Internet access and Windows 10 PC preinstalled with HP QuickDrop app and either an Android device (phone or tablet) running Android 7 or higher with the Android HP QuickDrop app, and/or an iOS device (phone or tablet) running iOS 12 or higher with the iOS HP QuickDrop app.
- <sup>34</sup> Security lock for security slot is sold separately.
- <sup>35</sup> HP Support Assistant requires Windows and Internet access.
- <sup>36</sup> HP Connection Optimizer requires Windows 10.
- <sup>37</sup> Battery is internal and not replaceable by customer. Serviceable by warranty. Batteries have a default one year limited warranty except for Long Life batteries which will have same 1-year or 3-year warranty as the platform.
- <sup>38</sup> HP Sure Start Gen6 is available on select HP PCs and requires Windows 10 and higher.
- <sup>39</sup> HP ZCentral Remote Boost Sender does not come preinstalled on Z Workstations but can be downloaded and run on all Z desktop and laptops without license purchase through 2022. With non-Z sender devices, purchase of perpetual individual license or perpetual floating license per simultaneously executing versions and purchase of ZCentral Remote Boost Software Support is required. ZCentral Remote Boost Sender for non-Z Hardware requires a license and Windows 10, RHEL/CentOS (7 or 8), or UBUNTU 18.04 or 20.04 LTS operating systems. macOS (10.14 or newer) operating system and ThinPro 7.2 are only supported on the receiver side. Requires network access. The software is available for download at <http://www.hp.com/ZCentralRemoteBoost>.
- <sup>40</sup> HP Tamper Lock not supported on Ubuntu OS.
- <sup>41</sup> Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. EPEAT® status varies by country. Visit [www.epeat.net](http://www.epeat.net) for more information.
- <sup>42</sup> External power supplies, WWAN modules, power cords, cables and peripherals excluded. Service parts obtained after purchase may not be Low Halogen.
- <sup>43</sup> HP Smart Support automatically collects the telemetry necessary upon initial boot of the product to deliver device-level configuration data and health insights and is available preinstalled on select products, thru HP Factory Configuration Services; or it can be downloaded. For more information about how to enable HP Smart Support or for download, please visit <http://www.hp.com/smart-support>.
- <sup>44</sup> GbE - The term "10/100/1000" or "Gigabit" Ethernet indicates compatibility with IEEE standard 802.3ab for Gigabit Ethernet, and does not connote actual operating speed of 1 Gb/s. For high-speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required.
- <sup>45</sup> Dual-microphone array when equipped with optional webcam and optional world facing microphone.
- <sup>46</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>47</sup> Secure Erase - For 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>48</sup> HDMI 2.0b with discrete, 1.4 with UMA.
- <sup>49</sup> HP Sure Recover Gen3 is available on select HP PCs and requires an open network connection. You must back up important files, data, photos, videos, etc. before using HP Sure Recover to avoid loss of data. Network based recovery using Wi-Fi is only available on PC's with Intel Wi-Fi Module.
- <sup>50</sup> HP Sure Sense is available on select HP PCs and is not available with Windows 10 Home.
- <sup>51</sup> HP Sure Run Gen3 is available on select HP PCs and requires Windows 10 and higher.
- <sup>52</sup> Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 standard.
- <sup>53</sup> Actual battery Watt-hours (Wh) will vary from design capacity. Battery capacity will naturally decrease with shelf life, time, usage, environment, temperature, system configuration, loaded apps, features, power management settings and other factors.
- <sup>54</sup> Tile requires Windows 10 or Windows 11. Some features require optional subscription to Tile Premium. Ring feature not available on HP Zbook Fury G9 Laptops. Tile application for Windows 10 available for download from the Windows Store. Mobile phone app available for download from App Store and Google Play. Requires iOS 11 and greater or Android 6.0 and greater see <https://support.thetileapp.com/hc/en-us/articles/200424778> for more information. HP Tile will function as long as the PC has battery power.
- <sup>55</sup> 100% outer box packaging and corrugated cushions made from sustainably sourced certified and recycled fibers.
- <sup>56</sup> HP Wolf Pro Security Edition (including HP Sure Click Pro and HP Sure Sense Pro) is available preloaded on select SKUs and, depending on the HP product purchased, includes a paid 1-year or 3-year license. The HP Wolf Pro Security Edition software is licensed under the license terms of the HP Wolf Security Software - End-User license Agreement (EULA) that can be found at: [https://support.hp.com/us-en/document/ish\\_3875769-3873014-16](https://support.hp.com/us-en/document/ish_3875769-3873014-16) as that EULA is modified by the following: "7. Term. Unless otherwise terminated earlier pursuant to the terms contained in this EULA, the license for the HP Wolf Pro Security Edition (HP Sure Sense Pro and HP Sure Click Pro) is effective upon activation and will continue for either a twelve (12) month or thirty-six (36) month license term ("Initial Term"). At the end of the Initial Term you may either (a) purchase a renewal license for the HP Wolf Pro Security Edition from HP.com, HP Sales or an HP Channel Partner, or (b) continue using the standard versions of HP Sure Click and HP Sure Sense at no additional cost with no future software updates or HP Support.
- <sup>57</sup> Thunderbolt™ 4 and USB4™ maximum speed of 40Gbps will be divided between the different data workstreams.
- <sup>58</sup> SD 7.0 media reader supports SD 4.0 cards at SD 3.0 speeds with any SD 7.0 host. SD 7.0 card availability is expected later in 2021.
- <sup>59</sup> Fiber cushions made from 100% recycled wood fiber and organic materials.

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