# HP ZBook Firefly 14 inch G11 Mobile Workstation PC

## Step up performance. Not size

Pro-level performance combines with true mobility in this amazingly sleek and powerful laptop. Stay productive wherever you're working with integrated or discrete graphics and processor, Al-enhanced webcam and audio, and a stunning display—everything you need to collaborate and manage projects anywhere.

## Upgrade to pro-level performance

Say goodbye to lags and crashes with fast responsiveness. With up to an Intel® Core™ Ultra 9 CPU with optional Intel vPro®<sup>1,2</sup>, NVIDIA RTX™ A500 Laptop GPU,<sup>3</sup> and 64GB of memory,<sup>4</sup> open large files and run pro apps simultaneously for speedy multitasking.

#### Work all day.<sup>6</sup> Anywhere

Starting at 3.88 lbs,<sup>5</sup> our most mobile ZBook is made to move. With a long-lasting battery this sleek yet durable device is small enough to fit in your bag so you can stay productive anywhere. This is high performance workstation power on the go.

#### Connect. Communicate. Collaborate

Collaborate effectively wherever you go with ZBook Firefly. The 5MP camera,<sup>7</sup> AI Noise Suppression software<sup>8</sup> to block background noises and Wi-Fi 6E<sup>9</sup> or 5G options<sup>10</sup> let you seamlessly connect from almost anywhere.



\*Product image may differ from actual product

Sustainability in action

#### Help protect our shared future with PCs that drive towards increasing sustainability

At HP, we care about the impact our products have on our people, communities, and the planet. That's why this device is EPEAT<sup>®</sup> Gold registered<sup>12</sup> and the outer box packaging is 100% sustainably sourced<sup>13</sup>.



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#### Featuring

#### Windows 11

Work without compromising on performance with Windows 11<sup>1</sup> combined with HP's collaboration and security technology.

#### Intel<sup>®</sup> Core<sup>™</sup> Ultra Processor<sup>2</sup>

Unleash productivity with a new architecture that delivers power-efficient performance for complex business workloads and is purpose-built for the next era of AI software by sending the right task to the right engine at the right time.

#### **NVIDIA®** Graphics

Tackle your biggest projects with an optional NVIDIA RTX™ A500 Laptop GPU;<sup>4</sup> certified for pro apps.

#### Lightning-Fast Storage

Blitz through multiple tasks and ditch external drives with up to 2 TB local NVMe storage<sup>5</sup>.

#### Large Memory Configurations

Power through projects with up to 64 GB RAM<sup>6</sup> for fast editing and design.

#### 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>16,17</sup>

#### 16:10 Aspect Ratio

The 16:10 aspect ratio reduces the need to scroll by showing 11% more vertical content than a 16:9 aspect ratio display. See more of your project without minimizing program menus or toolbars.

#### Easy Battery Management

Manage and monitor your battery's performance and condition and customize charging options with the easy-to-use HP Power Manager dashboard.<sup>9</sup>

#### **HP Fast Charge**

Long battery life gets you through a day of meetings without plugging in. Quickly recharge your PC with HP Fast Charge. You'll get up to 50% battery life in just 30 minutes of charging.<sup>10</sup>

#### Wi-Fi 6E

Get a fast and reliable connection in dense wireless environments with Wi-Fi 6E.<sup>12</sup>

#### **5G WWAN**

Connect almost anywhere with optional support for up to 5G wireless broadband technology with 4x4 antennas that can deliver fast download and upload speeds.<sup>13</sup>

#### **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>15</sup>



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### **Technical specifications**

Available Operating Systems	Windows 11 Pro <sup>1</sup> Windows 11 Pro Education <sup>1</sup> Windows 11 Home - HP recommends Windows 11 Pro for Business <sup>1</sup> Windows 11 Home Single Language - HP recommends Windows 11 Pro for Business <sup>1</sup> Windows 11 Pro (Windows 11 Enterprise available with a Volume Licensing Agreement) <sup>1</sup> FreeDOS <sup>49</sup> Ubuntu
Processor family <sup>2,3,4,5,6,47</sup>	Intel® Core™ Ultra 5 processor Intel® Core™ Ultra 7 processor
Available Processors <sup>2,3,4,5,6,36,39,47</sup>	Intel <sup>®</sup> Core <sup>™</sup> Ultra 7 165H (Up to 3.8 GHz E-core Max Turbo frequency, up to 5.0 GHz P-core Max Turbo frequency, 24 MB L3 cache, 6 P-cores and 8 E-cores, 22 threads), supports Intel <sup>®</sup> VPro <sup>®</sup> Technology Intel <sup>®</sup> Core <sup>™</sup> Ultra 7 155H (Up to 3.8 GHz E-core Max Turbo frequency, up to 4.8 GHz P-core Max Turbo frequency, 24 MB L3 cache, 6 P-cores and 8 E-cores, 22 threads) Intel <sup>®</sup> Core <sup>™</sup> Ultra 5 135H (Up to 3.8 GHz E-core Max Turbo frequency, up to 4.6 GHz P-core Max Turbo frequency, 24 MB L3 cache, 6 P-cores and 8 E-cores, 22 threads) Intel <sup>®</sup> Core <sup>™</sup> Ultra 5 135H (Up to 3.6 GHz E-core Max Turbo frequency, up to 4.6 GHz P-core Max Turbo frequency, 18 MB L3 cache, 4 P-cores and 8 E-cores, 18 threads), supports Intel <sup>®</sup> VPro <sup>®</sup> Technology Intel <sup>®</sup> Core <sup>™</sup> Ultra 5 125H (Up to 3.6 GHz E-core Max Turbo frequency, up to 4.5 GHz P-core Max Turbo frequency, 18 MB L3 cache, 4 P-cores and 8 E-cores, 18 threads) Intel <sup>®</sup> Core <sup>™</sup> Ultra 7 165U (Up to 3.8 GHz E-core Max Turbo frequency, up to 4.9 GHz P-core Max Turbo frequency, 12 MB L3 cache, 2 P-cores and 8 E-cores, 14 threads), supports Intel <sup>®</sup> VPro <sup>®</sup> Technology Intel <sup>®</sup> Core <sup>™</sup> Ultra 7 165U (up to 3.8 GHz E-core Max Turbo frequency, up to 4.8 GHz P-core Max Turbo frequency, 12 MB L3 cache, 2 P-cores and 8 E-cores, 14 threads), supports Intel <sup>®</sup> VPro <sup>®</sup> Technology Intel <sup>®</sup> Core <sup>™</sup> Ultra 5 135U (up to 3.8 GHz E-core Max Turbo frequency, up to 4.4 GHz P-core Max Turbo frequency, 12 MB L3 cache, 2 P-cores and 8 E-cores, 14 threads) Intel <sup>®</sup> Core <sup>™</sup> Ultra 5 135U (up to 3.6 GHz E-core Max Turbo frequency, up to 4.4 GHz P-core Max Turbo frequency, 12 MB L3 cache, 2 P-cores and 8 E-cores, 14 threads), supports Intel <sup>®</sup> VPro <sup>®</sup> Technology Intel <sup>®</sup> Core <sup>™</sup> Ultra 5 135U (up to 3.6 GHz E-core Max Turbo frequency, up to 4.4 GHz P-core Max Turbo frequency, 12 MB L3 cache, 2 P-cores and 8 E-cores, 14 threads), supports Intel <sup>®</sup> VPro <sup>®</sup> Technology Intel <sup>®</sup> Core <sup>™</sup> Ultra 5 135U (up to 3.6 GHz E-core Max Turbo frequency, up to 4.3 GHz P-core Max Turbo frequency, 12 MB L3 cache, 2 P-cor
Chipset	Intel® Integrated SoC
Maximum memory	64 GB DDR5-5600 non-ECC SDRAM; <sup>8,30</sup>
Memory slots	2 SODIMM; supports dual channel <sup>41</sup>
Internal storage	512 GB up to 2 TB PCIe <sup>®</sup> Gen4 x4 NVMe <sup>™</sup> M.2 2280 TLC SSD <sup>7</sup> 256 GB up to 512 GB PCIe <sup>®</sup> Gen4 x4 NVMe <sup>™</sup> M.2 2280 TLC SED OPAL 2 SSD <sup>7</sup> 256 GB up to 1 TB PCIe <sup>®</sup> Gen4 x4 NVMe <sup>™</sup> M.2 2280 SSD <sup>7</sup>
Display size (diagonal, metric)	35.6 cm (14")
Display	<ul> <li>14" diagonal, WQXGA (2560 x 1600), 120 Hz, IPS, anti-glare, 500 nits, 100% DCI-P3, HP DreamColor; 14" diagonal, WUXGA (1920 x 1200), IPS, anti-glare, 400 nits, 100% sRGB; 14" diagonal, WUXGA (1920 x 1200), IPS, anti-glare, 1000 nits, 100% sRGB, HP Sure View Reflect integrated privacy screen; 14" diagonal, WUXGA (1920 x 1200), IPS, anti-glare, 300 nits, 45% NTSC<sup>20,33,37</sup></li> <li>35.6 cm (14") diagonal, WQXGA (2560 x 1600), 120 Hz, IPS, anti-glare, 500 nits, 100% DCI-P3, HP DreamColor; 35.6 cm (14") diagonal, WUXGA (1920 x 1200), IPS, anti-glare, 300 nits, 100% sRGB; 14" diagonal, WUXGA (1920 x 1200), IPS, anti-glare, 300 nits, 45% NTSC<sup>20,33,37</sup></li> <li>35.6 cm (14") diagonal, WQXGA (2560 x 1600), 120 Hz, IPS, anti-glare, 500 nits, 100% DCI-P3, HP DreamColor; 35.6 cm (14") diagonal, WUXGA (1920 x 1200), IPS, anti-glare, 400 nits, 100% sRGB; HP Sure View Reflect integrated privacy screen; 35.6 cm (14") diagonal, WUXGA (1920 x 1200), IPS, anti-glare, 1000 nits, 100% sRGB, HP Sure View Reflect integrated privacy screen; 35.6 cm (14") diagonal, WUXGA (1920 x 1200), IPS, anti-glare, 300 nits, 45% NTSC; 35.6 cm (14") diagonal, WUXGA (1920 x 1200), IPS, anti-glare, 300 nits, 45% NTSC; 35.6 cm (14") diagonal, WUXGA (1920 x 1200), IPS, anti-glare, 300 nits, 45% NTSC; 35.6 cm (14") diagonal, WUXGA (1920 x 1200), IPS, anti-glare, 300 nits, 45% NTSC; 35.6 cm (14") diagonal, WUXGA (1920 x 1200), IPS, anti-glare, 300 nits, 45% NTSC; 35.6 cm (14") diagonal, WUXGA (1920 x 1200), IPS, anti-glare, 300 nits, 45% NTSC; 35.6 cm (14") diagonal, WUXGA (1920 x 1200), IPS, anti-glare, 300 nits, 45% NTSC; 35.6 cm (14") diagonal, WUXGA (1920 x 1200), IPS, anti-glare, 300 nits, 45% NTSC</li> </ul>
Available Graphics	Integrated: Intel <sup>®</sup> Iris <sup>®</sup> X <sup>e</sup> Graphics <sup>2728.32</sup> Discrete: NVIDIA RTX <sup>™</sup> A500 Laptop GPU (4 GB GDDR6 dedicated) <sup>12.32</sup> (Intel <sup>®</sup> Iris <sup>®</sup> X <sup>e</sup> Graphics capabilities require system to be configured with Intel <sup>®</sup> Core <sup>™</sup> Ultra 5 or Ultra 7 processors and dual channel memory. Intel <sup>®</sup> Iris <sup>®</sup> X <sup>e</sup> Graphics with Intel <sup>®</sup> Core <sup>™</sup> Ultra 5 or Ultra 7 processors and single channel memory will only function as UHD graphics.)
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
Wireless technologies	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®
Ports and connectors	Left side: 1 SuperSpeed USB Type-A 5Gbps signaling rate (charging); 1 HDMI 2.0b; 2 Thunderbolt <sup>™</sup> 4 with USB4 <sup>™</sup> Type-C <sup>®</sup> 40Gbps signaling rate (USB Power Delivery, DisplayPort <sup>™</sup> 1.4, HP Sleep and Charge) <sup>26,57</sup> ; Right side: 1 headphone/microphone combo; 1 SuperSpeed USB Type-A 5Gbps signaling rate
Input devices	HP Premium Quiet Keyboard - spill-resistant, full-size keyboard with drain and DuraKeys; HP Premium Quiet Keyboard - spill-resistant, full-size, backlit keyboard with drain and DuraKeys; Clickpad with multi-touch gesture support, taps enabled as default; Microsoft Precision Touchpad with gesture support
Communications	WWAN: Intel <sup>®</sup> 5G Solution 5000; HP 4000 4G LTE Advanced Pro <sup>9,10</sup>
Camera	5MP Camera; IR Camera (optional) <sup>13,14</sup>
Software	Bing Search for IE11 ; HP Hotkey Support ; HP Noise Cancellation Software ; HP Recovery Manager ; HP Support Assistant <sup>18</sup> ; HP Native Miracast Support <sup>22</sup> ; HP Connection Optimizer <sup>26</sup> , myHP <sup>35</sup> ; HP PC Hardware Diagnostics UEFI ; HP PC Hardware Diagnostics Windows ; HP Privacy Settings ; HP Programmable Key ; HP QuickDrop <sup>55</sup> ; HP Touchpoint Customizer ; HP Services Scan <sup>48</sup> ; HP Anyware <sup>21</sup> ; Buy Microsoft Office (Sold separately) <sup>19</sup> ; Copilot in Windows with Copilot key <sup>11</sup>
Security management	HP Sure Click <sup>2943</sup> ; HP Secure Erase <sup>40</sup> ; HP Manageability Integration Kit <sup>38</sup> ; HP Sure Sense <sup>34</sup> ; HP BIOSphere Gen6 <sup>24</sup> ; HP Sure Start Gen6 <sup>45</sup> ; MS Bitlocker Encryption; Nano Security Lock Slot; HP Image Assistant Gen4.6; HP TPM Configuration Utility; HP Sure Run Gen4 <sup>31</sup> ; HP Client Security Manager Gen7 <sup>44</sup> ; HP Sure Recover Gen4 with Embedded Reimaging <sup>42</sup> ; Secured-core PC capable <sup>32</sup> ; TPM 2.0 Embedded Security Chip; Infineon SLB9670; Camera privacy shutter
Fingerprint reader	Fingerprint reader (select models)



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#### **Technical specifications**

Management features	HP Client Catalog HP Power Manager <sup>15</sup> HP Client Management Script Library (download) HP Driver Packs (download) HP Image Assistant Gen5 (download) HP Patch Assistant (download) HP Cloud Recovery <sup>56</sup> HP Connect for Microsoft Endpoint Manager <sup>46</sup>
Memory card device	1 smart card reader (select models)
Power	HP Smart 65 W External AC USB Type-C® power adapter
Battery type	HP Long Life 3-cell, 56 Wh Li-ion polymer;
Battery recharge time	Supports battery fast charge: approximately 50% in 30 minutes <sup>23</sup>
Dimensions	12.42 x 8.8 x 0.76 in; 31.57 x 22.44 x 1.92 cm; 19.01 x 2.71 x 12 in 483 x 69 x 305 mm (Package)
Weight	Starting at 3.14 lb; Starting at 1.45 kg; (Weight varies by configuration and components.)
Ecolabels	EPEAT® registered configurations available <sup>16</sup>
Energy star certified	ENERGY STAR* certified
Sustainable impact specifications	Ocean-bound plastic in speaker enclosure; 40% post-consumer recycled plastic; External power supply 90% efficiency; Low Halogen; Bulk packaging available; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable; Outside box and corrugated cushions are 100% sustainably sourced and recyclable <sup>17,51,52,53,54</sup>



## HP ZBook Firefly 14 inch G11 Mobile Workstation PC

#### Footnotes

#### **Messaging Footnotes**

<sup>1</sup>Multicare 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 softwar Intel's numbering, branding and/or naming is not a measurement of higher performance. Optional, configurable feature that must be configured at purchase. <sup>2</sup> Intel vPro<sup>\*</sup> 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 20. Some functionality requires additional 3rd party software in order to run. Features of vPro<sup>\*</sup> Essentials and Enterprise va http://intel.com/vpro

<sup>3</sup> Optional feature that must be configured at purchas <sup>4</sup> Up to 64GB memory is an optional configurable feat

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<sup>10</sup> Intel<sup>11</sup> 5G module is optional and must be configured at the factory. Module designed for 5G NR NSA (non-standalone) network V4 ns. defined by 3GPP. Module requires activation and separately purchased service contract. Check with service provider fo orks as carriers deploy Evolved-Universal Terrestrial Radio Access New Radio Dual Connectivity (ENDC) with both 100Mhz of 5G NR and LTE channel bandwidth, for coverage and availability in your area. Data connection, upload and download speeds will vary due to network, location, erwironment, network conditions, an At 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. \*Based on USE PERAT\* registration according to IEEE 1680/2018 IEEE 1680/2018

Multicular is using text on input or perior initiate or certain software products, we are customers or software opplications with received and the rectification of the rectifica

<sup>10</sup> Up to 64GB memory is an optional, configurable feature. <sup>10</sup> PHP over Manager requires Mindows 10 and higher and can be downloaded from the Microsoft Store. <sup>10</sup> Recharges your battery up to 50% within 30 minutes when the system is draft in a standby mode. Power adapter with a minimum capacity of 65 watts is required. After charging has reached 50% capacity, charging will return to normal. Charging time may vary +/10% due to System tolerance. <sup>10</sup> Wr-FG Erecquires a Wr-FIG Eruces sold separately, to function in the 60/± band. Availability of public wireless access points limited. Wr-FI 66 is backwards compatible with prior 80211 specs. And available in countries where Wr-FI 66 is supported. <sup>13</sup> Intel<sup>15</sup> Store of the factory. Module designed for 50 RN RSA (non-standball work) sa carriers deploy Evolved-Universal Terrestrial Radio Access New Radio Dual Connectivity (ENDC) with both 100Mtrz of 50 RN and LTE channel bandwidth, using 2560AM <sup>14</sup> 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 40LTE and 36 HSPA lecthologies. 56 module planned to be availability and select countries, where carrier supported.

#### Specification Footnotes

1Not 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> 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>3</sup> Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.
<sup>4</sup> Intel<sup>®</sup> Turbo Boost performance varies depending on hardware, software and overall system configuration. See 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 .

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all products, and in all regions. <sup>11</sup> Requires Windows 11 and an NPU. Timing of feature delivery and availability varies by market and device. Requires Microsoft account to log in. Where Mi s(?) is not o ole, the Copilot key will lead to the Bing search engine. See http://aka.ms/Win oft in Wir <sup>12</sup> Both UMA & Discrete configurations support 3 independent displays when on the HP UltraSlim Dock (sold separately) - Max resolution = 2.5K @60Hz (DPI) & 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 (DP2) & FHD (VGA), and support 3 independent displays when on the HP Thunderbolt Dock G2 (sold separately) - Max resolution = 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 (DP2) & FHD (VGA), and support 3 independent displays when on the HP Thunderbolt Dock G2 (sold separately) - Max resolution = 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 (DP2) & FHD (VGA), and support 3 independent displays when on the HP Thunderbolt Dock G2 (sold separately) - Max resolution = 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 (DP2) & FHD (VGA), and support 3 independent displays when on the HP Thunderbolt Dock G2 (sold separately) - Max resolution = 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 (DP2) & FHD (VGA), and support 3 independent displays when on the HP Thunderbolt Dock G2 (sold separately) - Max resolution = 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 (DP2) & FHD (VGA), and support 3 independent displays when on the HP Thunderbolt Dock G2 (sold separately) - Max resolution = 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 (DP2) & FHD (VGA), and support 3 independent displays when on the HP Thunderbolt Dock G2 (sold se

<sup>3</sup> HD content required to view HD images. <sup>4</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.

15 Manage and monitor your battery's performance and condition and customize charging options with the easy-to-use HP Power Manager dashboard. 16 EPEAT\* registered where applicable. EPEAT registration varies by country. See www.epeat.net for registration status by country. Search keyword generator on HP's 3rd party option store for solar generator accessories at www.hp.com/go/options.

<sup>17</sup> External power supplies, WWAN modules, power cords, cables and peripherals excluded. Service parts obtained after purchase may not be Low Halogen. <sup>18</sup> HP Support Assistant - Requires Windows and Internet Access.

<sup>9</sup> Microsoft Office sold separately and requires Internet access for activation.
<sup>10</sup> Actual brightness will be lower with HP Sure View or touch-screen.

21 HP Anyware software and licensing are available through a 1- or 3 year subscription. Network access required. Renewal is required after the subscription term. HP Anyware subscriptions are based on the number of concurrent PCoIP connections used (pay for the number of host connections, not the software) with a minimum order quantity of 5. For a limited time, an HP Anyware Professional subscription also includes access and support for ZCentral Remote Boost and ZCentral Connect and is available for purchase through an HP reseller or contact sales at hp.com/Anyware. ZCentral Remote Boost and ZCentral Connect and is available for purchase through an HP reseller or contact sales at hp.com/Anyware. ZCentral Remote Boost Sender requires Windows 10 and 11, RHEL/CentOS (7 or 8), or UBUNTU 18:04 or 20.04 LTS operating systems macOS (10:14 or newer) operating system and ThinPro 72 are only supported on the receiver side. ZCentral complications windows (10 or 11) or Windows Server (2016 or 2019) operating system, Microsoft Active Directory and Intel Active Management Technology for select features. For system requirements and to instal HP Anymare.

us/windows 8/project wireless screen miracast. events and ges dp 0 use water to finite seven the system is on or in standor mode when been write in greater than 55 Whr no alless than 53 Whr. Hower adopter minimum of 120 water sequired for battery cog <sup>81</sup> HP BlOSphere Cenß features may vary depending on the platform and configuration. <sup>85</sup> SuperSpeed USB 20Gbps is not available with Thunderbott\* 4. <sup>86</sup> HP Connection Optimizer requires Windows 10. <sup>97</sup> Support HD decode, DX12, HDM114, HDCP 22 via DP up to 4K @ 60Hz and via HDMI up to 4K @ 30Hz. <sup>95</sup> Shared video memory UMAN uses part of the total system memory for video performance. System in

<sup>28</sup> Shared video memory UMAU uses part of the total system memory for video performance. System memory dedicated to video performance is not available for other use by other programs. <sup>28</sup> HP Sure Click requires Windows 10 Pro or higher or Enterprise. See https://blu//2Pt1GA\_sureClick for complete details. <sup>28</sup> Concentence and use of the memory the 20 Concentence the system memory dedicated to video performance is not available for other use by other programs.

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<sup>36</sup> P Series Processors can only be configured with Integrated UMA graphics. They cannot be configured with the NVIDIA RTX<sup>™</sup> A500 Laptop GPU.
<sup>37</sup> Resolutions are dependent upon monitor capability, and resolution and color depth settings.

<sup>38</sup> HP Manageability Integration Kit can be downloaded from http://www.hp.com/go/clientmanagement.
<sup>39</sup> Intel vPro<sup>®</sup> 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<sup>®</sup> Essentials and Enterprise vary. See

http://intel.com/vpro <sup>40</sup> HP 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<sup>®</sup> Optane

<sup>41</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>12</sup> HP Sure Recover is available on select HP PCs and requires Windows 10 or Windows 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. Network based recovery using Wi-Fi is only available on select PCs.

<sup>43</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>44</sup> HP Client Security Manager Gen7 requires Windows and is available on the select HP Elite and Pro PCs.

<sup>45</sup> HP Sure Start is available on select HP PCs and requires Windows 10 and higher.
<sup>46</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. HP Sure Admin requi Windows 10 or newer, and HP BIOS. <sup>47</sup> Features and software that require a NPU may require may require software purchase, su

Windows to universe, that is block.
If "Factures and a software that require a NPU may require 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.
If Pactures and software that require a NPU may require may require 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.
If Pactures and software that require a NPU may require ments. Performance varies by use, configuration, and other factors.
If Pactures and software that require a NPU may require ments. Performance varies by use, configuration, and other factors.
If Pactures and valid dwith Windows Update on select products and will check entitlement on each hardware device to determine if an HP TechPulse-enabled service has been purchased, and will download applicable software automatically. HP TechPulse is a telemetry and analytics platform that provides critical data around devices and applicable software automatically. HP TechPulse is a telemetry and analytics platform that provides critical data around devices and applicable software automatically. HP TechPulse is a telemetry and analytics platform that provides critical data around devices and applicable software automatically. HP TechPulse is a telemetry and analytics platform that provides critical data around devices and applicable software automatically. HP TechPulse is a telemetry and analytics platform that provides critical data around devices and applicable software automatically. HP TechPulse is a telemetry and analytics platform that provides critical data around devices and applicable software automatically. HP TechPulse is a telemetry and analytics platform that provides critical data

<sup>19</sup> Web-only Support <sup>1</sup> Percentage of ocean-bound plastic contained in each component varies by pro

Recycled plastic content percentage is based on the definition set in the IEEE 16801-2018 standard.
 Fiber cushions made from 100% recycled wood fiber and organic materials.
 100% orbitem cushions made from 100% recycled wood fiber and organic materials.

<sup>54</sup> 100% outer box packaging and corrugated cushions made from sustainably sourced certified and recycled fibers.
<sup>55</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 ery is available for Z by HP, HP Elite and Pro desktops and laptops PCs with Intel<sup>®</sup> 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>57</sup> Thunderbolt™ 4 and USB4™ maximum speed of 40Gbps will be divided between the different data workstreams.

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