



# HP ZBook Power G7 Mobile Workstation

HP's most affordable mobile workstation

Now you can upgrade to professional ZBook performance and security at an unbelievably affordable price. Power up your productivity on a durable yet premium design, with pro-grade components including graphics certified for leading software applications.



HP recommends Windows 10 Pro for business

#### Power through intensive workflows

- Blaze through 3D modeling workloads with up to NVIDIA® Quadro™ 2000 graphics, while eliminating painful slowdowns with Intel® Xeon® and Core™ i9 processors<sup>1</sup> and 64GB memory.<sup>2</sup> Plus, with dual 2TB M.2 SSDs you can store even your largest projects.<sup>2</sup>

#### Certified. Secured. Supported.

- Get peace of mind with a secure, serviceable mobile workstation that's certified for the professional apps you use every day. HP Sure Suite advanced security features come standard while optional management tools simplify fleet-wide roll-outs.

#### Durable with a premium touch.

- With a sanitizable<sup>3</sup> all-aluminum chassis and MIL-STD durability<sup>12</sup>, this PC is tough enough to last, yet built with a premium touch. The four-sided narrow bezel maximizes screen real estate, while an optional 4K UHD display makes project details pop.<sup>4</sup>
- Work anywhere without compromising on performance or security with Windows 10 Pro and HP's collaboration and connectivity technology.<sup>5</sup>
- NVIDIA Quadro GPUs, provide the interactive visual workspace you need to do great work wherever, whenever. With twice the CUDA cores as previous generations, NVIDIA Quadro GPUs deliver the performance professionals need to work from anywhere.
- Take multitasking to the next level with 10th gen Intel® Core™ i9 or Intel® Xeon® processors\* built to handle multithreaded apps like Adobe Premiere Pro®, and with fast clock speeds to boost your speed on single threaded apps like Autodesk 3ds Max.<sup>6,7</sup>
- Strenuously tested to meet ISV certification and deliver superb performance and support with leading software providers, including Autodesk and Adobe®.<sup>8</sup>
- Have confidence with HP's most secure mobile workstations, and defend against firmware and malware attacks with HP Sure Start and Sure Sense.<sup>9,10</sup>
- Built with the environment in mind, this Zbook includes recycled ocean-bound plastics, plastic-free packaging, and ultra-efficient power consumption.<sup>11</sup>
- Designed for ultimate durability, this ZBook undergoes brutal MIL-STD 810H tests to help ensure this PC keeps rolling through your workday.<sup>12</sup>
- Plug in to greater connectivity at your desktop with the HP Thunderbolt Dock for lightning-fast Thunderbolt™ 3 transfers and the flexibility to run up to two external 4K displays.<sup>13,14,15</sup>
- Work without limits in any location with up to 2TB of local PCIe storage<sup>16</sup>

## HP ZBook Power G7 Mobile Workstation Specifications Table



Available Operating Systems	Windows 10 Pro 64 – HP recommends Windows 10 Pro for business <sup>1,14</sup> Windows 10 Pro for Workstations 64 <sup>1,14</sup> Windows 10 Home 64 <sup>1,14</sup> Windows 10 Home Single Language 64 <sup>1,14</sup> Windows 10 China Government Edition <sup>1,14</sup> FreeDOS 3.0
Processor family <sup>2,3,4,5,25</sup>	10th Generation Intel® Core™ i5 processor; 10th Generation Intel® Core™ i7 processor; 10th Generation Intel® Core™ i9 processor; 10th Generation Intel® Xeon® processor
Available Processors <sup>2,3,4,5,16,25</sup>	Intel® Core™ i5-10300H with Intel® UHD Graphics (2.5 GHz base frequency, up to 4.5 GHz with Intel® Turbo Boost Technology, 8 MB L3 cache, 4 cores) Intel® Core™ i7-10750H with Intel® UHD Graphics (2.6 GHz base frequency, up to 5.0 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 6 cores) Intel® Core™ i5-10400H with Intel® UHD Graphics (2.6 GHz base frequency, up to 4.6 GHz with Intel® Turbo Boost Technology, 8 MB L3 cache, 4 cores), supports Intel® vPro® Technology Intel® Core™ i7-10850H with Intel® UHD Graphics (2.7 GHz base frequency, up to 5.1 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 6 cores), supports Intel® vPro® Technology Intel® Core™ i9-10885H with Intel® UHD Graphics (2.4 GHz base frequency, up to 5.3 GHz with Intel® Turbo Boost Technology, 16 MB L3 cache, 8 cores), supports Intel® vPro® Technology Intel® Xeon® W-10855M with Intel® UHD Graphics (2.8 GHz base frequency, up to 5.1 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 6 cores), supports Intel® vPro® Technology
Chipset	Intel® WM490
Display size (diagonal)	15.6"
Maximum memory	64 GB DDR4-3200 non-ECC SDRAM; 32 GB DDR4-2666 ECC SDRAM <sup>7</sup> Transfer rates up to 2933 MT/s on nECC memory and 2666 MT/s on ECC memory
Memory slots <sup>8,9,10</sup>	2 SODIMM; supports dual channel
Internal storage	256 GB up to 4 TB PCIe® NVMe™ M.2 SSD <sup>11</sup> 256 GB up to 512 GB PCIe® NVMe™ M.2 SED SSD <sup>11</sup>
Display <sup>21,23</sup>	15.6" diagonal, FHD (1920 x 1080), touch, IPS, narrow bezel, anti-glare, 250 nits, 45% NTSC 15.6" diagonal, FHD (1920 x 1080), IPS, narrow bezel, anti-glare, 400 nits, low power, 100% sRGB 15.6" diagonal, 4K UHD (3840 x 2160), IPS, narrow bezel, anti-glare, 400 nits, low power, 100% sRGB 15.6" diagonal, FHD (1920 x 1080), IPS, narrow bezel, anti-glare, 250 nits, 45% NTSC
Available Graphics	Integrated: Intel® UHD Graphics <sup>15</sup> Discrete: NVIDIA® Quadro® P620 (4 GB GDDR5 dedicated); NVIDIA® Quadro® T2000 (4 GB GDDR6 dedicated); NVIDIA® Quadro® T1000 (4 GB GDDR6 dedicated)
Audio <sup>45</sup>	HP Audio, dual stereo speakers, dual array digital microphone, functions keys for volume up and down, combo microphone/headphone jack, HD audio
Wireless technologies	Optional Near Field Communication (NFC) module - WNC XRAV-1 NFC
Expansion slots	1 smart card reader
Ports and Connectors	Left side: 1 RJ-45; 1 SuperSpeed USB Type-A 5Gbps signaling rate (charging); 1 HDMI 2.0 Right side: 1 power connector; 1 Thunderbolt™ 3 (40Gbps signaling rate) with SuperSpeed USB Type-C® 10Gbps signaling rate (DisplayPort™ 1.2); 2 SuperSpeed USB Type-A 5Gbps signaling rate; 1 headphone/microphone combo <sup>6</sup>
Available Keyboards	HP Premium Quiet Keyboard – spill-resistant, full-size, backlit keyboard with programmable key
Available Pointing Devices	Clickpad with multi-touch gestures enabled, taps enabled as default; Microsoft Precision Touchpad Default Gestures Support
LAN <sup>12</sup> Network Interface <sup>12</sup>	Integrated Intel® I219-LM GbE, vPro® Integrated Intel® I219-V GbE, non-vPro®
WLAN <sup>13</sup>	Intel® Wi-Fi 6 AX201 (2x2) and Bluetooth® 5 combo, vPro® Intel® Wi-Fi 6 AX201 (2x2) and Bluetooth® 5 combo, non-vPro®
Camera <sup>17,18</sup>	720p HD camera; 720p HD IR camera
Software <sup>15,28,29,35,36,39</sup>	Bing search for IE11; Buy Office; HP Hotkey Support; HP Noise Cancellation Software; HP Performance Advisor; HP Support Assistant; Native Miracast support; HP Connection Optimizer; HP Cloud Recovery; HP ZCentral Remote Boost Software; myHP
Security management <sup>19,22,24,26,27,30,31,33,34,38,44,46,47,49,50</sup>	Absolute persistence module; HP Power On Authentication; Security lock slot; Trusted Platform Module TPM 2.0 Embedded Security Chip; Master Boot Record security; Pre-boot authentication; HP Sure Click; Windows Defender; HP Secure Erase; HP Manageability Integration Kit; HP FingerPrint Sensor; HP Sure Sense; HP Sure Recover Gen3; HP BIOSphere Gen6; HP Sure Start Gen6; HP Sure Run Gen3; HP Sure Admin; HP Image Assistant; HP Sure View Reflect; HP Tamper Lock; HP Client Security Manager Gen6
Fingerprint reader	Fingerprint reader (select models)
Power <sup>20</sup>	120 W Slim Smart external AC power adapter; 150 W Slim Smart external AC power adapter
Battery type <sup>37</sup>	HP Long Life 6-cell, 83 Wh Li-ion polymer
Dimensions	14.15 x 9.21 x 0.9 in; 35.94 x 23.39 x 2.86 cm
Weight	Starting at 4.16 lb; Starting at 1.89 kg (Weight varies by configuration and components.)
Energy efficiency compliance <sup>41</sup>	ENERGY STAR® certified and EPEAT® 2.0 registered where applicable. EPEAT® registration varies by country. See www.epeat.net for registration status by country.
Environmental specifications <sup>42</sup>	Low halogen
Warranty	Protected by HP, including a 3 year standard limited warranty. Optional HP Care Pack Services are extended service contracts that extend your protection beyond the standard warranties. Service levels and response times for HP Care Packs may vary depending on your geographic location. Service starts on date of hardware purchase. Restrictions and limitations apply. For details, visit www.hp.com/go/cpc

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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> Optional, configurable features.
- <sup>3</sup> Select household wipes can be safely used to clean HP Elite Presenter Mouse, HP Premium keyboard (wireless and USB) and HP desktop wired 320 KB/Mouse up to 1,000 wipes: See wipe manufacturer's instructions for disinfecting and the HP cleaning guide for HP tested wipe solutions at How to Sanitize Your HP Device Whitepaper (<http://h20195.www2.hp.com/v2/GetDocument.aspx?docname=4AA7-7610ENW>)
- <sup>4</sup> 4K UHD display is an optional, configurable feature.
- <sup>7</sup> MIL STD testing is not intended to demonstrate fitness for U.S. Department of Defense contract requirements or for military use. Test results are not a guarantee of future performance under these test conditions. Accidental damage requires an optional HP Accidental Damage Protection Care Pack.
- <sup>5</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 10 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>6</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>7</sup> Adobe Premiere Pro® and Autodesk 3ds Max sold separately.
- <sup>8</sup> Adobe and Autodesk software sold separately.
- <sup>9</sup> HP Sure Start Gen5 is available on select HP PCs with Intel processors.
- <sup>10</sup> HP Sure Sense requires Windows 10 Pro or Enterprise.
- <sup>11</sup> Speaker enclosure component made with 5% ocean bound plastic as of 2/3/2020.
- <sup>12</sup> MIL STD testing is not intended to demonstrate fitness for U.S. Department of Defense contract requirements or for military use. Test results are not a guarantee of future performance under these test conditions. Accidental damage requires an optional HP Accidental Damage Protection Care Pack.
- <sup>13</sup> HP Thunderbolt Dock with Thunderbolt™ 3 sold separately.
- <sup>14</sup> External displays sold separately.
- <sup>15</sup> Optional hybrid graphics is required to run up to two external 4K displays.
- <sup>16</sup> For hard drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 35GB (for Windows 10) of system disk is reserved for system recovery software

### 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 10 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> 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 35 GB (for Windows 10) is reserved for system recovery software.
- <sup>12</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>13</sup> Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. The specifications for Wi-Fi 6 (802.11ax WLAN) are draft specifications and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other 802.11ax WLAN devices. Only available in countries where 802.11ax is supported.
- <sup>14</sup> HP tested Windows 10, version 1809 on this platform. For testing information on newer versions of Windows 10, please see <https://support.hp.com/document/c05195282>
- <sup>15</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>16</sup> Intel® integrated graphics: Intel® UHD Graphics 630 integrated on Core™ i7 processors and Intel® UHD Graphics P630 integrated on Xeon® processors.
- <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 communicate with other 802.11ax WLAN devices. Only available in countries where 802.11ax is supported.
- <sup>19</sup> HP Sure Click requires Windows 10 Pro or Enterprise. See [https://bit.ly/2PrLT6A\\_SureClick](https://bit.ly/2PrLT6A_SureClick) for complete details.
- <sup>20</sup> 120 W power adapter is configurable with Intel UMA graphics 150 W power adapter is configurable with NVIDIA Quadro P620 T1000 and T2000 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 configurations
- <sup>23</sup> Resolutions are dependent upon monitor capability, and resolution and color depth settings.
- <sup>24</sup> HP Client Security Manager Gen6 requires Windows and is available on select HP Elite, Pro and Workstations.
- <sup>25</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>26</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
- <sup>27</sup> HP Sure Run Gen3 is available on select Windows 10 based HP Pro, Elite and Workstation PCs with select Intel® or AMD processors. Network based recovery using Wi-Fi is only available on PCs with Intel Wi-Fi Module®.
- <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. 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/computrace-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> Microsoft Defender Opt in and internet connection required for updates.
- <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 Gen 6 is available on select HP PCs and workstations. See product specifications for availability
- <sup>39</sup> HP ZCentral Remote Boost does not come preinstalled on Z Workstations but can be downloaded and run on all Z desktop and laptops without license purchase. 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. RGS requires Windows, RHEL (7 or 8), UBUNTU 18.04 LTS, or HP ThinPro 7 operating systems. MacOS (10.13 or newer) operating system is only supported on the receiver side. Requires network access. The software is available for download at [hp.com/ZCentralRemoteBoost](http://hp.com/ZCentralRemoteBoost).
- <sup>41</sup> 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.
- <sup>42</sup> External power supplies, power cords, cables and peripherals are not low halogen. Service parts obtained after purchase may not be low halogen.
- <sup>44</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>45</sup> Dual-microphone array when equipped with optional webcam and optional world facing microphone.
- <sup>46</sup> HP Sure Admin requires Windows 10, HP BIOS, HP Manageability Integration Kit from <http://www.hp.com/go/clientmanagement> and HP Sure Admin Local Access Authenticator smartphone app from the Android or Apple store.
- <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>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.
- <sup>50</sup> HP Sure Sense requires Windows 10 Pro or Enterprise. See product specifications for availability.

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