

# HP ZBook 15 G4 Mobile Workstation



## Portable powerhouse

We built desktop workstation power, performance and expandability into a device designed for the road. Made for mobile creative and design professionals with the most demanding projects, where compromise is simply not an option.



## HP recommends Windows 10 Pro.

### Discover gravity defying performance

- Made for the most demanding workloads, the HP ZBook 15 is used by NASA to help push the boundaries of science and discovery on the International Space Station. Imagine what it could do for you.

### Extreme power. Impressive expandability.

- Designed for your most demanding workloads, our HP ZBook 15 is engineered with the latest Intel® Xeon® processors<sup>2</sup>, NVIDIA® Quadro® or AMD Radeon™ Pro graphics, up to 3 TB of storage<sup>3</sup> and dual Thunderbolt 3 ports.

### No compromise reliability

- Confidently take on your workday with our durable & reliable HP ZBook 15. With a 3-year onsite<sup>5</sup> limited warranty, 120,000 hours of testing, and 30 years of HP Z DNA this is where the fusion of innovation, performance & reliability meet.

### Featuring

- Be productive in any situation. Windows 10 Pro and powerful security, collaboration, and connectivity features from HP help you power through your day on the HP ZBook 15.
- Choose from 7th generation Intel® Core™ or Intel® Xeon® processor options that bring speed and superior performance to the HP ZBook 15.
- For real-time visualization of multi-layered files and projects, experience AMD Radeon™ Pro or NVIDIA® Quadro® 3D graphics with 4 GB of video memory.
- Extremely responsive experience with heavy workloads and file sizes, with up to 64 GB DDR4 memory. Plus, help protect your data with optional ECC memory.
- Reduce boot up, file transfers and application load times by revolutionizing how your HP ZBook handles large files with 3 TB storage, including the optional dual HP Z Turbo Drives.
- Quickly and easily transfer data and connect to devices. This HP ZBook 15 is packed with multiple ports including HDMI, USB 3.0, and dual Thunderbolt™ 3 ports.
- When color accuracy is critical, the optional 4K UHD display with HP DreamColor technology provides 8 million color accurate pixels, which means crystal clear, immersive imagery.
- The HP ZBook Dock with Thunderbolt 3 quickly connects and powers your HP ZBook to compatible devices and provides support for dual 4K monitors at native resolutions.
- Get long lasting battery life, and when you need it, recharge quickly with HP Fast Charge. You'll get up 50% battery life in just 30 minutes.
- Reliable HP service is ready when you need it, including 3 years of parts, labor and onsite service with our limited warranty.
- Experience the dual-fan active cooling system designed to dissipate heat from the powerful NVIDIA® graphics cards and Intel® processors.
- The embedded Trusted Platform Module (TPM), Smart Card Reader and optional Finger Print Reader can help secure your data, e-mail, and user credentials.

# HP ZBook 15 G4 Mobile Workstation Specifications Table

HP recommends Windows 10 Pro.



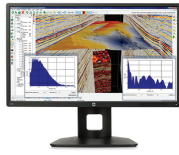
<b>Operating System</b>	Windows 10 Pro 64 – HP recommends Windows 10 Pro. <sup>1</sup> Windows 10 Home 64 <sup>1</sup> FreeDOS 2.0
<b>Processor Family</b>	7th Generation Intel® Xeon® processor (E3-1535M v6, E3-1505M v6 models); 7th Generation Intel® Core™ i7 processor (i7-7700HQ, i7-7820HQ models); 7th Generation Intel® Core™ i5 processor (i5-7300HQ, i5-7440HQ models) <sup>2,3</sup>
<b>Processors<sup>2,3</sup></b>	Intel® Xeon® E3-1535M v6 with Intel® HD Graphics P630 (3.1 GHz, up to 4.2 GHz with Intel® Turbo Boost Technology 2.0, 8 MB L3 cache, 4 cores); Intel® Xeon® E3-1505M v6 with Intel® HD Graphics P630 (3 GHz, up to 4 GHz with Intel® Turbo Boost Technology 2.0, 8 MB L3 cache, 4 cores); Intel® Core™ i7-7820HQ with Intel® HD Graphics 630 (2.9 GHz, up to 3.9 GHz with Intel® Turbo Boost Technology 2.0, 8 MB L3 cache, 4 cores); Intel® Core™ i7-7700HQ with Intel® HD Graphics 630 (2.8 GHz, up to 3.8 GHz with Intel® Turbo Boost Technology 2.0, 6 MB L3 cache, 4 cores); Intel® Core™ i5-7440HQ with Intel® HD Graphics 630 (2.8 GHz, up to 3.8 GHz with Intel® Turbo Boost Technology 2.0, 6 MB L3 cache, 4 cores); Intel® Core™ i5-7300HQ with Intel® HD Graphics 630 (2.5 GHz, up to 3.5 GHz with Intel® Turbo Boost Technology 2.0, 6 MB L3 cache, 4 cores)
<b>Chipset</b>	Mobile Intel® CM236 integrated with processor
<b>Maximum Memory</b>	Up to 64 GB DDR4-2400 ECC SDRAM or 64 GB DDR4-2400 non-ECC SDRAM <sup>4,5</sup> Standard memory note: Transfer rates up to 2400 MT/s for systems with less than 32 GB. Transfer rates up to 2133 MT/s for systems with greater than 32 GB. Non-ECC memory only available with Intel® Core™ processors. ECC memory only available with Intel® Xeon® processors.
<b>Memory Slots</b>	4 SODIMM
<b>Internal Storage</b>	up to 500 GB SATA (7200 rpm) <sup>6</sup> up to 1 TB SATA (5400 rpm) <sup>6</sup> up to 500 GB SATA SED (7200 rpm) <sup>6</sup> up to 500 GB SATA SED FIPS 140-2 (7200 rpm) <sup>6</sup> up to 500 GB (8 GB cache) SATA SSHD <sup>6</sup> 256 GB up to 1 TB SATA SSD <sup>6</sup> up to 256 GB M.2 SATA SED SSD <sup>6</sup>
<b>Display</b>	39.6 cm (15.6") diagonal FHD IPS anti-glare (1920 x 1080); 39.6 cm (15.6") diagonal UHD DreamColor IPS anti-glare (3840 x 2160); 39.6 cm (15.6") diagonal FHD IPS touch screen (1920 x 1080); 39.6 cm (15.6") diagonal FHD anti-glare (1920 x 1080)
<b>Available Graphics</b>	Integrated: Intel® HD Graphics 630; Intel® HD Graphics P630 <sup>8,10</sup> Discrete: AMD Radeon™ Pro WX 4150 (4 GB GDDR5 dedicated); NVIDIA® Quadro® M620 (2 GB GDDR5 dedicated); NVIDIA® Quadro® M1200 (4 GB GDDR5 dedicated); NVIDIA® Quadro® M2200 (4 GB GDDR5 dedicated) <sup>11</sup> Intel® HD Graphics 630 integrated on Core™ i7 and Core™ i5 processors. Intel® HD Graphics P530 integrated on Xeon® processors.
<b>Expansion Slots</b>	1 SD UHS-II flash media; 1 smart card reader SD supports next generation secure digital and is backward compatible to SDHC, SDXC
<b>Ports and Connectors</b>	Left side: 1 RJ-45; 1 USB 3.0 (charging); 1 VGA Right side: 1 power connector; 2 USB Type-C™ (Thunderbolt™ 3, DisplayPort™ 1.2, USB 3.1); 2 USB 3.0; 1 stereo microphone-in/headphone-out combo
<b>Communications</b>	LAN: Integrated Intel® I219-LM Gigabit Network Connection WLAN: Intel® Dual Band Wireless-AC 8265 802.11a/b/g/n/ac (2x2) Wi-Fi and Bluetooth® 4.2 Combo; Intel® Dual Band Wireless-AC 8265 802.11a/b/g/n/ac (2x2) non-vPro™ Wi-Fi and Bluetooth® 4.2 Combo <sup>7</sup> WWAN: HP It4120 Qualcomm® Snapdragon™ X5 LTE Mobile Broadband Module; HP It4132 LTE/HSPA+ 4G Mobile Broadband Module; HP h53210 HSPA+ Mobile Broadband Module <sup>8</sup>
<b>Audio</b>	Bang & Olufsen HD audio. Integrated stereo speakers and microphone (dual-microphone array when equipped with optional webcam). Button for volume mute, functions keys for volume up and down. Combo microphone-in/stereo headphone-out jack.
<b>Camera</b>	720p HD webcam (optional) <sup>9,12</sup>
<b>Power</b>	150 W Slim Smart AC adapter (external)
<b>Input Device</b>	HP Spill Resistant Keyboard (backlit with function key control) with numeric keypad Image sensor touchpad with on/off button, two-way scroll, gestures, three pick buttons. Pointstick with three additional pointstick buttons.
<b>Security</b>	Absolute Persistence Module; DriveLock and Automatic DriveLock; HP FingerPrint Sensor (optional); Integrated smart card reader; One-step logon; Optional USB port disable at factory (user configurable via BIOS); RAID (available as a configurable option); Removable media write/boot control; SATA port disablement (via BIOS); Security lock slot; Serial, parallel, USB enable/disable (via BIOS); Setup password (via BIOS); Support for Intel® AT; Power-on password (via BIOS); HP BIOSphere with Sure Start Gen3; Common Criteria EAL4+ Augmented Certified Discrete TPM 2.0 Embedded Security Chip <sup>17,18,19</sup>
<b>Software</b>	HP Mobile Workstations are shipped with a variety of software titles including: HP Performance Advisor; HP Remote Graphics Software (HP RGS); HP Velocity; HP Client Security Suite Gen3; HP ePrint Driver+JetAdvantage; HP Recovery Manager; HP WorkWise (requires Bluetooth); HP LAN-WLAN Protection; HP Hotkey Support; HP Jumpstart; HP Support Assistant; HP Noise Cancellation; Buy Office; Bing Search; Skype. Please refer to this product's quickspec document for a full list of preinstalled software. <sup>13,14,15,16</sup>
<b>Dimensions</b>	386 x 264 x 26 mm
<b>Weight</b>	Starting at 2.6 kg Weight varies by configuration and components
<b>Energy Efficiency Compliance</b>	ENERGY STAR® certified and EPEAT® registered configurations available <sup>20</sup>
<b>Environmental Certification</b>	Low halogen <sup>21</sup>
<b>Warranty</b>	3-year (3-3-0) limited warranty and service offering includes 3 years of parts and labor. Terms and conditions vary by country.

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**HP recommends Windows 10 Pro.**

### Accessories and services (not included)

**HP Z27s 27-inch IPS UHD Display**



Join the Ultra High Definition movement and expand your visual workspace with the HP Z27s 68,6 cm (27") IPS UHD Display, which delivers an extra-large screen with UHD/4K<sup>1</sup> presentation and flexible connectivity and comfort features.  
**Product number: J3G07A4**

**3Dconnexion CadMouse**



Simplify scroll, click, and zoom functions and comfortably drive your CAD projects with the 3Dconnexion CADMouse.  
**Product number: M5C35AA**

**HP 16GB DDR4 2133MHz ECC Memory**



Boost the capabilities of your HP Business Notebook PC and improve system performance and application responsiveness with low-power, high-speed, DDR4 ECC memory from HP.  
**Product number: V1D59AA**

**HP 1TB SSD 2280 M.2 PCI-E 3x4 NVME**



Reduce boot up, calculation, and graphics response times and revolutionize how your HP Business Notebook handles large files with the HP 1TB SSD 2280 M.2 PCI-E 3x4 NVME, a remarkably affordable and innovative PCIe-based NVMe memory SSD storage solution.  
**Product number: X2E90AA**

**HP ZBook Thunderbolt 3 1m Cable**



Use the cable to connect your HP ZBook 150W or 200W Thunderbolt 3 Dock to your notebook.  
**Product number: Z4P20AA**

**HP 3 year Next Business Day Onsite Hardware Support for Notebooks**

Receive 3 years of next business day onsite HW Support from an HP-qualified technician for your computing device, if the issue cannot be solved remotely.  
**Product number: U4414E**



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**HP recommends Windows 10 Pro.**

## Messaging Footnotes:

- <sup>1</sup> Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers and/or software 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> Multi-Core is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering is not a measurement of higher performance.
- <sup>3</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>4</sup> Sold separately or as an optional feature.
- <sup>5</sup> Onsite service may require an optional HP Care Pack. Availability may vary.
- <sup>6</sup> Recharges your battery up to 50% within 30 minutes when the system is off or in 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.

## 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.microsoft.com>
- <sup>2</sup> Multi-Core is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering is not a measurement of higher performance.
- <sup>3</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>4</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>5</sup> Only 2 DIMM configurations run at 2400 MHz and 4 DIMM configurations run at 2133 MHz.
- <sup>6</sup> For storage drives GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30 GB (for Windows 10) is reserved for system recovery software.
- <sup>7</sup> Wireless cards are optional or add-on features and requires separately purchased wireless access point and internet service. Availability of public wireless access points limited. The specifications for the 802.11ac 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 802.11ac WLAN devices.
- <sup>8</sup> WWAN is an optional feature. 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>9</sup> HD content required to view HD images.
- <sup>10</sup> Intel® HD graphics 630 is configurable as a standalone graphics option; Intel® HD graphics P630 only used when NVIDIA® Optimus™ Technology is enabled.
- <sup>11</sup> NVIDIA® Quadro® mobile professional graphics support up to four independent displays when using a HP ZBook Dock with Thunderbolt 3 (sold separately) or DP 1.2 hubs with MST. AMD Radeon™ Pro professional graphics support up to six independent displays when using an HP ZBook Dock with Thunderbolt 3 (sold separately) or DP 1.2 hubs with MST.
- <sup>12</sup> Optional or add-on feature.
- <sup>13</sup> HP ePrint Driver requires an internet connection to HP web-enabled printer and HP ePrint account registration (for a list of eligible printers, supported documents and image types and other HP ePrint details, see [www.hp.com/go/businessmobileprinting](http://www.hp.com/go/businessmobileprinting)).
- <sup>14</sup> HP Remote Graphics Software requires a Windows, Linux®, or Mac® OS X 10.10 and newer operating system and network access.
- <sup>15</sup> HP Workwise smartphone app is available as a free download on the App Store and Google Play. See requirements at [www.hp.com/go/workwise](http://www.hp.com/go/workwise)
- <sup>16</sup> HP Client Security Suite Gen3 requires Windows and Intel® or AMD 7th Gen processors.
- <sup>17</sup> BIOS Absolute Persistence module is shipped turned off, and will be activated when customers purchase and activate a subscription. Service may be limited. Check with Absolute for availability outside the U.S. The optional subscription service of Absolute Recovery Guarantee is a limited warranty. Certain conditions apply. For full details visit: <http://www.absolute.com/company/legal/agreements/computrace-agreement>. If Data Delete is utilized, the Recovery Guarantee payment is null and void. In order to use the Data Delete service, customers must first sign a Pre-Authorization Agreement and either create a PIN or purchase one or more RSA SecurID tokens from Absolute Software.
- <sup>18</sup> Intel AT security requires a separately purchased Absolute Computrace service subscription and must be activated and configured. Check with Absolute for availability in your country. Intel and HP assume no liability for lost or stolen data and/or systems or any other damages resulting therefrom. See <http://www.intel.com/technology/anti-theft/>
- <sup>19</sup> Sure Start Gen3 is available on HP Zbook products equipped with Intel® 7th generation processors.
- <sup>20</sup> EPEAT® registered where applicable. EPEAT registration varies by country. See [www.epeat.net](http://www.epeat.net) for registration status by country.
- <sup>21</sup> External power supplies, power cords, cables and peripherals are not low halogen. Service parts obtained after purchase may not be low halogen.

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