Datasheet

HP ZBook 15v G5 Mobile Workstation

HP's most affordable workstation

Supercharge your projects on a high performance laptop that packs a punch at a low cost, with high speed processors and graphics certified for peak performance.

HP recommends Windows 10 Pro.

Pro-grade performance

- Get lightening fast response times with 6-core Intel® Xeon® processors and 32GB memory, even when running multiple apps at once. Access large 4K files quickly with 4TB high-speed storage and speed up rendering time with NVIDIA® Quadro® graphics.

Software certified

- Work with confidence knowing your laptop is certified to tackle your most important applications. We’ve partnered with leading software providers like Autodesk and SolidWorks to ensure the HP ZBook 15v is optimized for peak performance.

Built to last

- The HP ZBook 15v undergoes rigorous military standard testing including drop, shock and harsh environments. Now you can take your work on the road with confidence knowing your laptop was built for durability.

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 15v.
- Tackle complex 2D and 3D models with certified NVIDIA® Quadro® graphics - optimized for stability and peak performance with professional software apps.
- Do more at once with 6-core Intel® Xeon® processors designed to handle complex, multi-threaded applications like Autodesk Revit®.
- Increase productivity with up to 1 TB local PCIe NVMe storage - up to 21x faster than standard HDD and 6x faster than SATA SSD.
- Stay connected for longer with up to 10 hours of battery life and super-fast recharge, powering up by 50% in just 30 minutes.
- Collaborate and connect remotely through a 720-pixel webcam for sharp picture quality. Log in quickly and securely with facial recognition and a webcam shutter.
- Experience premium audio with custom tuned Bang & Olufsen speakers.
- Unclutter your work environment with HP’s most powerful docking solution. Experience lightning fast Thunderbolt™ connectivity with remarkable performance.
**Available Operating Systems**

Windows 10 Pro 64 – HP recommends Windows 10 Pro.
Windows 10 Home 64
Windows 10 Pro for Workstations 64
FreeDOS 2.0

**Processor family**

8th Generation Intel® Core™ i7 processor (17-8750H, 17-8850H); 8th Generation Intel® Core™ i5 processor (15-8300H, 15-8400H); Intel® Xeon® E3 processor (E3-1276M); 9th Generation Intel® Core™ i5 processors (15 9300H, 15 9400H); 9th Generation Intel® Core™ i7 processors (17 9750H, 17 9850H); 9th Generation Intel® Core™ i9 processor (19 9880H)

**Available Processors**

Intel® Xeon® E 2176M with Intel® UHD Graphics P630 (2.7 GHz base frequency, up to 4.4 GHz with Intel® Turbo Boost Technology, 12 MB cache, 6 cores)
Intel® Core™ i5 8400H vPro™ with Intel® UHD Graphics 630 (2.5 GHz base frequency, up to 4.2 GHz with Intel® Turbo Boost Technology, 8 MB cache, 4 cores)
Intel® Core™ i5 9300H with Intel® UHD Graphics 630 (2.4 GHz base frequency, up to 4.1 GHz with Intel® Turbo Boost Technology, 8 MB cache, 4 cores)
Intel® Core™ i7 9750H with Intel® UHD Graphics 630 (2.6 GHz base frequency, up to 4.5 GHz with Intel® Turbo Boost Technology, 12 MB cache, 6 cores)
Intel® Core™ i7 9850H with Intel® UHD Graphics 630 (2.6 GHz base frequency, up to 4.6 GHz with Intel® Turbo Boost Technology, 12 MB cache, 6 cores)
Intel® Core™ i9 9880HK with Intel® UHD Graphics 630 (2.3 GHz base frequency, up to 4.8 GHz with Intel® Turbo Boost Technology, 16 MB cache, 8 cores)
Intel® Core™ i9 9980HK with Intel® UHD Graphics 630 (2.4 GHz base frequency, up to 5.0 GHz with Intel® Turbo Boost Technology, 16 MB cache, 8 cores)

**Maximum memory**

32 GB DDR4-2667 ECC SDRAM; 32 GB DDR4-2667 non-ECC SDRAM
Transfer rates up to 2667 MT/s

**Memory slots**

2 2SO DIMM

**Internal storage**

up to 2 TB 5400 rpm SATA
500 GB up to 1 TB 7200 rpm SATA
500 GB 7200 rpm SATA SED
500 GB up to 2 TB SATA SED
256 GB up to 1 TB SATA SSD
256 GB up to M.2 SATA SSD
256 GB up to M.2 SATA SED SSD
256 GB up to 512 GB PCIe® NVMe™ M.2 SSD
Port(s) and Connectors

Left side: 1 AC power; 1 USB 3.0; 1 USB 3.0 (charging)
Right side: 1 HDMI 2.0; 1 headphone/microphone combo; 1 power connector; 1 RJ-45; 1 USB 3.0; 1 US B 3.1 Gen 2 Type-C™ with Thunderbolt™ 3 (DisplayPort™ 1.2)

**Audio**

HP tuned Bang & Olufsen, dual stereo speakers, dual array digital microphone supporting HP Noise Cancelling Software, keyboard functions keys for volume up and down, combo microphone/headphone jack, HD audio

**Display**

Integrated: Intel® UHD Graphics 630; Intel® UHD Graphics P630
Discrete: NVIDIA® Quadro® P600 (4 GB GDDR5 dedicated)

**Available Graphics**

Intel® UHD Graphics 630 integrated on Core™ i7 and Core™ i5 processors, Intel® UHD Graphics P630 integrated on Xeon® processors

**Available Software**

Bing search for IE11; Buy Office; HP ePrint Driver + JetAdvantage; HP Hotkey Support; HP Noise Cancellation Software; HP Performance Advisor; HP Recovery Manager; HP Remote Graphics Software; HP Support Assistant; HP Velocity; Skype for Business Certified; HP LAN-WLAN Protection; HP JumpStart

**Power**

120 W Slim Smart external AC power adapter; 150 W Slim Smart external AC power adapter

**Battery type**

HP Long Life 3-cell, 52 Wh Li-ion polymer; HP Long Life 4-cell, 70 Wh Li-ion polymer

**Dimensions**

14.37 x 10.1 x 1 in; 36.5 x 25.65 x 2.54 cm

**Weight**

Starting at 4.72 lb; Starting at 2.14 kg

**Energy efficiency compliance**

ENERGY STAR® certified and EPEAT® registered configurations available
Low halogen

**Warranty**

1 year limited warranty options available, depending on country. Batteries have the same 1 year limited warranty as the platform. 24/7 operation will not void the HP warranty. Optional HP Care Pack Services are extended service contracts which go beyond your standard limited warranties.
# HP ZBook 15v G5 Mobile Workstation

## Accessories and services (not included)

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HP Z24n G2 24-inch Display</strong></td>
<td>Be a productive powerhouse with the sleek WUXGA HP Z24n G2 24-inch Display. This virtually seamless display is factory-tested for reliability and longevity with integrated color calibration, uninterrupted multi-screen tiling, and expansive device connections, including USB-C™.</td>
<td>Product number: 1JS09A8</td>
</tr>
<tr>
<td><strong>HP Comfort Grip Wireless Mouse</strong></td>
<td>The HP Comfort Grip Wireless Mouse features a 30-month battery life and a bold, modern design that integrates seamlessly with HP Business Notebooks.</td>
<td>Product number: H2L63AA</td>
</tr>
<tr>
<td><strong>HP 3 year Next Business Day Onsite HW Support w/Accidental Damage Protection-G2 for Notebooks</strong></td>
<td>When hardware issues come up, the sooner you can get running again, the better. Have expertise at the ready with HP Hardware Next Business Day Onsite Service with Accidental Damage Protection, and vastly improve your product uptime. With high-quality remote assistance or convenient onsite support available the next business day, help is there when you need it—so you can get back to work.</td>
<td>Product number: UA6Z7E</td>
</tr>
</tbody>
</table>
HP recommends Windows 10 Pro.

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Messaging Footnotes
1 HP-STD-B160 testing is pending. Testing is not intended to demonstrate fitness of U.S. Department of Defense (DoD) 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 Accident Damage Protection Care Pack.
2 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. ESP fees may apply and additional requirements may apply over time for updates. See http://www.windows.com.
3 For hard drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less, up to 30 GB for Windows 10. For all system recovery software.
4 Recharges the 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.
5 Charging time may vary +/-10% due to System tolerance.
6 Facial recognition and webcam shutter are optional features that must be configured at purchase.
7 HP Sure Start Gen6 is available on HP 2 Workstations equipped with 8th generation Intel® or AMD processors.
8 ZBook dock with Thunderbolt™ sold separately.
9 Screen images courtesy of Motus Motorcycles.

Technical Specifications Footnotes
1 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. ESP fees may apply and additional requirements may apply over time for updates. See http://www.windows.com.
2 Intel vPro technology is dependent on 3rd party software providers. Compatibility of future “virtual appliances” is yet to be determined.
3 Intel® Core™ i7 processor is designed to improve overall system power efficiency by using the new Intel® Microarchitecture core. The processor also supports Intel® Virtualization technology, which enables the processor to support enhanced virtualization capabilities in the operating system.
4 HD content required to view HD images.
5 The National Institute of Standards and Technology (NIST) Special Publication 800-88 is a government publication with the objective of providing the public and private sectors with a common understanding of the concepts and requirements of effective media sanitization. This publication is intended to support Federal initiatives and may not cover state and local government, commercial, or personal media sanitization initiatives. It is not a certification or an endorsement.
6 Intel® Core™ i7 processor is designed to improve overall system power efficiency by using the new Intel® Microarchitecture core. The processor also supports Intel® Virtualization technology, which enables the processor to support enhanced virtualization capabilities in the operating system.
7 Battery is internal and not replaceable by customer. Serviceable by warranty. Batteries have a default one year limited warranty.
8 HP Sure Start Gen4 is available on HP Z Workstations equipped with 8th generation Intel® or AMD processors.
9 HP Sure Start Gen4 is available on HP Z Workstations equipped with 8th and 9th generation Intel® or AMD processors.
10 HP Sure Start Gen4 is available on HP Z Workstations equipped with 8th and 9th generation Intel® or AMD processors.
11 HP Password manager requires Windows.
12 HP Remote Graphics Software requires a Windows, Linux®, or MacOS X 10.10 and newer operating system and network access.
13 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 http://www.hp.com/go/mobileprinting).
14 Facial recognition is not available on touchscreen.
15 Dual-microphone array when equipped with optional webcam and optional world facing microphone.
16 Battery is internal and not replaceable by customer. Serviceable by warranty. Batteries have a default one year limited warranty.
17 HP Sure Start Gen4 is available on HP Z Workstations equipped with 8th and 9th generation Intel® or AMD processors.
18 HP Sure Start Gen4 is available on HP Z Workstations equipped with 8th and 9th generation Intel® or AMD processors.
19 HP Windows Hello optional.
20 A cell now only use UML, and not possible with DISC.

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