HP ZBook Studio Mobile Workstation

Get the perfect blend of design and performance in the next generation HP ZBook Studio. Speed through your work and bring your ideas to life on HP’s brightest 4K laptop.

HP recommends Windows 10 Pro.

**HP's brightest 4K laptop**
See your work in one billion vibrant colors on the HP DreamColor display with 600 nits of brightness. Master color-critical work with a built-in color calibration system that helps maintain perfect color every single time.

**More powerful than ever before**
Get ultra-fast, 6-core Intel® Xeon® processors and enhanced thermals that keep your laptop cool and quiet. Render photorealistic images with certified NVIDIA® Quadro® graphics - optimized for stability and peak performance with leading software apps.

**HP's most secure mobile workstation**
Protect your confidential work with security features like facial recognition and a webcam shutter. With HP Sure View privacy display, your screen becomes visible only to you at the touch of a button, so you can do private work in busy, open areas.

**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 Studio.
- Get remarkable performance with heavy workloads with six-core Intel® Xeon® processors. Experience stability, data integrity and protection against potential crashes with ECC memory.
- Seamlessly edit your designs and render multi-layered files with certified NVIDIA® Quadro® P1000 graphics, optimized for stability and performance with professional software apps.
- Accelerate your productivity with up to 4TB local PCIe NVMe storage that’s up to 21 times faster than standard HDD storage and six times faster than SATA SSD.
- Get remarkable, real time performance running multiple applications simultaneously with 32 GB RAM.
- Take your work on the road with up to 16 hours of battery life for maximum productivity. When you need it, recharge ultra-fast (50% in just 30 minutes).
- Travel anywhere with this powerful laptop that weighs only 4.4 pounds. Get a full-sized, backlit minor spill-resistant keyboard for worry-free, flexible working on-the-go.
- Easily transition from indoors to outdoors with the ambient light sensor that dims or brightens based on your surroundings. Experience precise color accuracy with 100% Adobe® RGB.
- Host virtual meetings with the HP Collaboration Keyboard, world-facing 3rd mic & optional web cam. Get premium audio with 4 speakers custom tuned by Bang & Olufsen & a discrete amp.
- Experience fast transfer and upload speeds with dual Thunderbolt™ 3 ports. Stay connected with 2 USB 3.0, 1 HDMI and 1 SD card port.
- Confidently take your work anywhere knowing your HP ZBook Studio was built for 24x7x365 workloads and designed to pass rigorous military standard tests.
- Connect your HP ZBook Studio x360 to external displays with HP’s most powerful docking solution. Experience lightning fast Thunderbolt™ connectivity with remarkable performance.
## HP ZBook Studio G5 Mobile Workstation Specifications Table

### Operating System
- Windows 10 Pro
- Windows 10 Home
- Windows 10 Pro for Workstations
- Red Hat Enterprise Linux
- FreeBSD 2.0

### Processor Family
- 8th Generation Intel® Core™ i7 processor (i7-8750H, i7-8850H)
- 8th Generation Intel® Core™ i5 processor (i5-8300H, i5-8400H)
- 8th Generation Intel® Xeon® E3 processor (E3-2176v6, E3-2186v6)

### Processors
- Intel® Core™ i7-8750H with Intel® UHD Graphics 630 (2.2 GHz base frequency, up to 4.1 GHz with Intel® Turbo Boost Technology, 9 MB cache, 6 cores)
- Intel® Core™ i5-8250U with Intel® UHD Graphics 620 (2.5 GHz base frequency, up to 3.0 GHz with Intel® Turbo Boost Technology, 6 MB cache, 4 cores)
- Intel® Core™ i5-8265U with Intel® UHD Graphics 620 (2.6 GHz base frequency, up to 3.9 GHz with Intel® Turbo Boost Technology, 6 MB cache, 4 cores)
- 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)

### Maximum Memory
- 32 GB DDR4-2666 ECC SDRAM
- 32 GB DDR4-2667 non-ECC SDRAM

### Memory Slots
- 2 SODIMM

### Internal Storage
- 2 TB 5400 rpm SATA SED
- 500 GB up to 1 TB 7200 rpm SATA SED
- 500 GB 7200 rpm SATA EPP (250 GB 1.8" SSD)
- 500 GB 7200 rpm SATA EPP (250 GB 1.8" SSD)
- 256 GB up to 1 TB 1 SSD SDD
- 256 GB 2 M.2 SATA SED SDD
- 512 GB 2 M.2 SATA SED SDD (256 GB 2 M.2 SED SSD)
- 256 GB up to 1 TB PCIe® M.2 M.2 SSD
- 256 GB up to 512 GB PCIe® M.2 M.2 SSD

### Display
- HP DreamColor 15.6" diagonal 4K IPS anti-glare LED-backlit, 600 cd/m², 100% Adobe RGB (3840 x 2160); 15.6" diagonal FHD IPS eDP anti-glare LED-backlit ambient light sensor, 400 cd/m² (1920 x 1080); 15.6" diagonal 4K IPS eDP anti-glare LED-backlit ambient light sensor, 400 cd/m² (3840 x 2160); HP Sure View 15.6" diagonal FHD IPS anti-glare LED-backlit ambient light sensor, 650 cd/m² (1920 x 1080)

### Available Graphics
- Integrated: Intel® UHD Graphics 630; Intel® UHD Graphics P630
- Discrete: NVIDIA Quadro P1000 (4 GB GDDR5) dedicated

### Expansion Slots
- 1 UHS-II SD card reader

### Ports and Connectors
- Left side: 1 USB 3.1, 1 USB 3.0 (charging)
- Right side: 1 HDMI 2.0, 1 headphone/microphone combo, 1 power connector, 2 USB 3.1 Type-C™ Thunderbolt™ 3 (DisplayPort™ 1.3)

### Networking
- WLAN: Intel® Dual Band Wireless AC 9560 2x2:1ac (2x2) Wi-Fi® and Bluetooth® 5.0 Combo; Intel® Dual Band Wireless-AC 9560 2x2:1ac (2x2) Wi-Fi and Bluetooth 5.0 Combo, non-vPro™
- Optional Near Field Communication (NFC) module

### Audio
- Bang & Olufsen, dual stereo speakers, dual array digital microphone, functions keys for volume up and down, combo microphone/headphone jack, HD audio

### Input Device
- HP Collaboration Keyboard; full-size, spill-resistant, backlit, with drain and Duraflex keys, clickpad with image sensor and glass surface, multi-touch gestures and taps enabled; image sensor clickpad with on/off button, two-way scroll, gestures, two buttons

### Camera
- HP SureView HD IR Camera 720p, face authentication with Windows Hello
- HP SureView Privacy HD IR Camera 720p

### Power
- 150 W Slim smart external AC power adapter
- HP Long Life 4-cell, 64 Wh Li-ion prismatic; HP Long Life 6-cell, 95.6 Wh Li-ion polymer

### Security
- Absolute persistence module; Common Criteria EAL4+; Augmented Certified Discrete TPM 2.0 Embedded Security Chip; DriveLock and Automatic DriveLock; HP Device Access Manager; HP Fingerprint Sensor; HP Password Manager; HP Power On Authentication; HP Security Manager; Pre-boot authentication; Microsoft Security Defender; HP Sure Click; Measured Boot; HP BIOS Configuration Utility (BCU); HP Client Catalog; HP Driver Packs; HP System Software Manager (SSM); HP Manageability Integration Kit Gen2; HP BIOSphere with Sure Start Gen4; HP Secure Disk Erase; HP Host Based Mac Address

### Software
- Bing search for IE11; Skype Office; HP ePrint Driver + JetAdvantage; HP Backup Support; HP Noise Cancellation Software; HP Performance Advisor; HP Recovery Manager; HP Remote Graphics Software; HP Support Assistant; HP Velocity; HP WorkWise (requires Bluetooth); Skype for Business Certified; HP LAN-WLAN Protection; HP JumpStart; HP Client Security Suite Gen4

### Dimensions (W x D x H)
- 14.17 x 9.65 x 0.847 in
- 36 x 24.5 x 2.18 cm

### Weight
- Starting at 4.4 lb
- Starting at 4.05 kg

### Energy Efficiency Compliance
- ENERGystar® certified and EPEAT® registered configurations available

### Environmental
- Low halogen

### Warranty
- 3 year or 1 year limited warranty options available, depending on country. Batteries have a default one year limited warranty except for Long Life batteries which will have same 1-year or 3-year limited warranty as the platform. 24x7 operation will not void the HP warranty. Optional HP Care Pack Services are extended service contracts which go beyond your standard limited warranties.
## Accessories and Services (not included)

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
<th>Product number</th>
</tr>
</thead>
<tbody>
<tr>
<td>HP ZBook 150W Thunderbolt 3 Dock</td>
<td>Create a remarkably powerful and streamlined mobile workstation workspace without the clutter with the HP ZBook Dock with Thunderbolt 3. Get expansive device, display, and network connectivity plus simultaneous charging of your system through one simple cable from the dock to your HP ZBook.</td>
<td>P5Q58AA</td>
</tr>
<tr>
<td>HP Professional Slim Top Load Case</td>
<td>Designed for business pros who want a protective laptop case without the bulk, the HP Professional Slim Top Load Case delivers ample storage in a stylish, slim design.</td>
<td>H4J91AA</td>
</tr>
<tr>
<td>HP Comfort Grip Wireless Mouse</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>H2L63AA</td>
</tr>
<tr>
<td>HP 150W Smart AC Adapter (4.5mm)</td>
<td>Conserve battery life, be more productive, and get uninterrupted power for your HP ZBook and select HP Docking Stations with HP 150W Smart AC Adapter.</td>
<td>W2F74AA</td>
</tr>
<tr>
<td>HP DreamColor Z31x Studio Display</td>
<td>Designed for the world’s elite color professionals, the award-winning HP DreamColor Technology brings the industry’s boldest visions to life. Captivate with Cinema 4K resolution, an expansive color gamut for remarkably vivid colors, integrated colorimeter and custom-tailored management tools.</td>
<td>Z4Y82A8</td>
</tr>
<tr>
<td>HP 3 year Next Business Day Onsite HW Support w/Accidental Damage Protection-G2 for Notebooks</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>UC282E (for 1 year platforms), UC279E (for 3 year platforms)</td>
</tr>
</tbody>
</table>
HP recommends Windows 10 Pro.

Messaging Footnotes

1 Based on HP's unique and comprehensive security capabilities at no additional cost among desktop workstation vendors as of Sept. 2017 on HP Mobile Workstations with 7th Gen and higher Intel® Processors.
2 Intel® Core™, Intel® Core™ i3, Intel® Core™ i5, Intel® Core™ i7, Intel® Core™ i9, Intel® Pentium®, Intel® Celeron®, Intel® Atom®, Intel® Xeon®, and Intel® UHD Graphics are trademarks of Intel Corporation in the U.S. and/or other countries. Bluetooth is a trademark of its proprietor and used by HP Inc. under license. ENERGY STAR® is a registered trademark of the U.S. Environmental Protection Agency. DisplayPort™ and the DisplayPort™ logo are trademarks owned by the Video Electronics Standards Association (VESA®) in the United States and other countries. The NVIDIA logo and Quadro are trademarks and/or registered trademarks of NVIDIA Corporation in the U.S. and other countries.

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. ISP fees may apply and additional requirements may apply over time for updates. See http://www.windows.com.
2 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.
3 Optional or add-on feature.
4 DisplayPort™ and the DisplayPort™ logo are trademarks owned by the Video Electronics Standards Association (VESA®) in the United States and other countries. The NVIDIA logo and Quadro are trademarks and/or registered trademarks of NVIDIA Corporation in the U.S. and other countries.
5 HP Sure View integrated privacy screen is an optional feature that must be configured at purchase.
6 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.
7 HP Sure View integrated privacy screen is an optional feature that must be configured at purchase.
8 MIL-STD-810G 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. Accident damage requires an optional HP Accidental Damage Protection Care Pack.
9 Weight will vary by configuration.
10 Ambient light sensor only available on select models with standard and full UHD (not available with HP DreamColor or privacy display models).
11 Only 2 DIMM configurations run at 2400 MHz and 4 DIMM configurations run at 2133 MHz.
12 System memory is shared with the video graphics memory. System memory size decreases when used for video memory.
13 Battery is internal and not replaceable by customer. Serviceable by warranty.
14 EPEAT® registered where applicable. EPEAT registration varies by country. See www.epeat.net for registration status by country.
15 HPSecureDiskErase is for the methods outlined in the National Institute of Standards and Technology Special Publication 800-88.
16 HPPasswordmanager requires Windows.
17 HPBIOSphereGen4 requires Intel® or AMD 8th generation processors. HPSureStartGen4 is available on HP Z Workstations product sequipped with 8th generation Intel® or AMD processors.
18 HP Manageability Integration Kit can be downloaded from http://www.hp.com/go/clientmanagement.
19 Privacy camera is not available on touchscreen.
20 Finger Sensor is optional.
21 WP Remote Graphics Software requires a Windows, Linux®, or Mac® OS X 10.10 and newer operating system and network access.
22 HP Workzone smartphone app is available as a free download on the App Store and Google Play. See requirements at www.hp.com/go/workzone.
23 Battery is internal and not replaceable by customer. Serviceable by warranty.
24 Windows Hello optional.
25 HP Secure Disk Erase is for the methods outlined in the National Institute of Standards and Technology Special Publication 800-88.
26 HP Secure Disk Erase is for the methods outlined in the National Institute of Standards and Technology Special Publication 800-88.
27 Battery is internal and not replaceable by customer. Serviceable by warranty.
28 Battery is internal and not replaceable by customer. Serviceable by warranty.
29 HPRemote Graphics Software requires Windows 10
30 Microsoft Security Defender requires Windows 10
31 Windows Hello optional.