



HP ZBook Studio G5 Mobile Workstation

Get the ultimate 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 shutter². With HP Sure View privacy display³, 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)¹⁰.
- Travel anywhere with this powerful laptop that weighs only 1.98 kg. 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 64 – HP recommends Windows 10 Pro. ¹ Windows 10 Home 64 ¹ Windows 10 Pro for Workstations 64 ¹ Windows 10 Pro (National Academic only) ¹ Red Hat® Enterprise Linux® 7 ³² FreeDOS 2.0
Processor Family	8th Generation Intel® Core™ i7+ processor (Core™ i7 and Intel® Optane™ memory); 8th Generation Intel® Core™ i5+ processor (Core™ i5 and Intel® Optane™ memory); Intel® Xeon® E3 processor ^{2,3}
Processors^{2,3,4,30,31}	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™ i7+ 8750H (Core™ i7 and 16 GB Intel® Optane™ memory) 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+ 8300H (Core™ i5 and 16 GB Intel® Optane™ memory) with Intel® UHD Graphics 630 (2.6 GHz base frequency, up to 4.0 GHz with Intel® Turbo Boost Technology, 8 MB cache, 4 cores); Intel® Core™ i5+ 8400H vPro™ (Core™ i5 and 16 GB Intel® Optane™ memory) 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™ i7+ 8850H vPro™ (Core™ i7 and 16 GB Intel® Optane™ memory) with Intel® UHD Graphics 630 (2.6 GHz base frequency, up to 4.3 GHz with Intel® Turbo Boost Technology, 9 MB cache, 6 cores); Intel® Core™ i7 8850H vPro™ with Intel® UHD Graphics 630 (2.6 GHz base frequency, up to 4.3 GHz with Intel® Turbo Boost Technology, 9 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® Xeon® E 2176M vPro™ 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® Xeon® E 2186M vPro™ with Intel® UHD Graphics P630 (2.9 GHz base frequency, up to 4.8 GHz with Intel® Turbo Boost Technology, 12 MB cache, 6 cores); Intel® Core™ i5-8300H with Intel® UHD Graphics 630 (2.3 GHz base frequency, up to 4.0 GHz with Intel® Turbo Boost Technology, 8 MB cache, 4 cores)
Maximum Memory	32 GB DDR4-2667 ECC SDRAM; 32 GB DDR4-2667 non-ECC SDRAM ⁵ Transfer rates up to 2667 MT/s.
Memory Slots	2 SODIMM
Internal Storage	up to 2 TB 5400 rpm SATA ⁶ 500 GB up to 1 TB 7200 rpm SATA ⁶ up to 500 GB 7200 rpm SATA SED ⁶ up to 500 GB 7200 rpm SATA FIPS 140-2 SED ⁶ 500 GB up to 2 TB SATA SSHD ⁶ 256 GB up to 1 TB SATA SSD ⁶ up to 256 GB M.2 SATA SED SSD ⁶
Available Graphics	Integrated: Intel® UHD Graphics 630; Intel® UHD Graphics P630 ^{8,9} Discrete: NVIDIA® Quadro® P1000 (4 GB GDDR5 dedicated) ¹⁰ (Intel® UHD Graphics 630 integrated on Core™ i7 and Core™ i5 processors. Intel® UHD Graphics P630 integrated on Xeon® processors.)
Audio	Bang & Olufsen, dual stereo speakers, dual array digital microphone, functions keys for volume up and down, combo microphone/headphone jack, HD audio ¹³
Communications	WLAN: Intel® Dual Band Wireless-AC 9560 802.11ac (2x2) Wi-Fi® and Bluetooth® 5.0 Combo; Intel® Dual Band Wireless-AC 9560 802.11ac (2x2) Wi-Fi® and Bluetooth® 5.0 Combo, non-vPro™ ^{7,12} Optional Near Field Communication (NFC) module
Expansion Slots	1 UHS-II SD card reader SD supports next generation secure digital and is backward compatible to SDHC, SDXC
Ports and Connectors	Left side: 1 USB 3.0; 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)
Input Device	HP Collaboration Keyboard, full-size, spill-resistant, backlit, with drain and DuraKeys, 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 Privacy HD IR Camera 720p, face authentication with Windows Hello ^{8,11,13,29}
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; HP WorkWise (requires Bluetooth); Skype for Business Certified; HP LAN-WLAN Protection; HP JumpStart; HP Client Security Suite Gen4 ^{14,15,16,17}
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 Config 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 ^{18,19,20,21,25,26,27,28}
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 ^{25,33}
Dimensions	36 × 25.4 × 0.88 to 1.74 cm (front to rear)
Weight	Starting at 2 kg
Environmental Certification	Low halogen ²⁴
Energy Efficiency Compliance	ENERGY STAR® certified and EPEAT® registered configurations available ²³

HP ZBook Studio G5 Mobile Workstation

Recommended Accessories and Services

HP Thunderbolt Dock 230W G2



Reinvent docking and boost productivity with our most versatile Thunderbolt™ dock, the small, sophisticated HP Thunderbolt Dock G2. Designed for workspace flexibility and network manageability¹, it delivers USB-C™² device connectivity and optional integrated audio.³

Product number: 2UK38AA

HP 3-year Travel Next Business Day Low End Notebook Only Hardware Support



This HP services offers notebook users on the go prompt, reliable coverage in major geographies of the world, for 3 years. For more information on Care Pack services, please visit www.hp.com/go/cpc.

Product number: UC909E

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 Facial recognition and webcam shutter are optional features that must be configured at purchase.
- ³ HP Sure View integrated privacy screen is an optional feature that must be configured at purchase.
- ⁴ 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>.
- ⁵ 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.
- ⁶ Windows 10 MM14 battery life will vary depending on various factors including product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See www.bapco.com for additional details.
- ⁷ 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. Charging time may vary +/-10% due to System tolerance.
- ⁸ Weight will vary by configuration.
- ⁹ Ambient light sensor only available on select models with standard and full UHD (not available with HP DreamColor or privacy display models).
- ¹⁰ 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. Accidental damage requires an optional HP Accidental Damage Protection Care Pack.
- ¹¹ ZBook dock with Thunderbolt™ sold separately.
- Screen images courtesy of Mind Frame Cinema, Local Motors, and HaZ.com

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 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>
- ⁴ vPro. Some functionality of this technology, such as Intel Active management technology and Intel Virtualization technology, requires additional 3rd party software in order to run. Availability of future "virtual appliances" applications for Intel vPro technology is dependent on 3rd party software providers. Compatibility future "virtual appliances" is yet to be determined.
- ⁵ Only 2 DIMM configurations run at 2400 MHz and 4 DIMM configurations run at 2133 MHz.
- ⁶ 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.
- ⁷ 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.
- ⁸ HD content required to view HD images.
- ⁹ Intel® HD graphics 630 is configurable as a standalone graphics option; Intel® HD graphics P630 only used when NVIDIA® Optimus™ Technology is enabled.
- ¹⁰ 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.
- ¹¹ Privacy camera is not available on touchscreen.
- ¹² Dual-microphone array when equipped with optional webcam and optional world facing microphone.
- ¹³ Optional or add-on feature.
- ¹⁴ 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).
- ¹⁵ HP Remote Graphics Software requires a Windows, Linux®, or Mac® OS X 10.10 and newer operating system and network access.
- ¹⁶ 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.
- ¹⁷ HP Client Security Suite Gen 4 requires Windows and Intel® or AMD 8th generation processors.
- ¹⁸ 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>.
- ¹⁹ Finger Sensor is optional
- ²⁰ HP Manageability Integration Kit can be downloaded from <http://www.hp.com/go/clientmanagement>.
- ²¹ HP BIOSphere Gen4 requires Intel® or AMD 8th generation processors. HP Sure Start Gen4 is available on HP Z Workstations products equipped with 8th generation Intel® or AMD processors.
- ²² HP Password manager requires Windows.
- ²³ EPEAT® registered where applicable. EPEAT registration varies by country. See www.epeat.net for registration status by country.
- ²⁴ External power supplies, power cords, cables and peripherals are not low halogen. Service parts obtained after purchase may not be low halogen.
- ²⁵ 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 limited warranty as the platform.
- ²⁶ HP Secure Disk Erase is for the methods outlined in the National Institute of Standards and Technology Special Publication 800-88.
- ²⁷ HP Sure Click is available on select HP platforms and supports Microsoft® Internet Explorer, Google Chrome, and Chromium™. Supported attachments include Microsoft Office (Word, Excel, PowerPoint) and PDF files in read only mode. Check <http://h20195.www2.hp.com/v2/GetDocument.aspx?docname=4AA7-0922ENW> for all compatible platforms as they become available.
- ²⁸ Microsoft Security Defender requires Windows 10
- ²⁹ Windows Hello optional
- ³⁰ Intel® Optane™ memory system acceleration does not replace or increase the DRAM in your system.
- ³¹ Intel Turbo Boost performance varies depending on hardware, software and overall system configuration. See www.intel.com/technology/turboboost for more information.
- ³² Supported, not preloaded.
- ³³ 4 cell now only w/ UMA, and not possible with DSC.

Sign up for updates

hp.com/go/getupdated

Copyright © 2018 HP Development Company, L.P. The only warranties for HP products are set forth in the express limited warranty statements accompanying such products. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

Intel, Xeon, Core, Thunderbolt, and Intel vPro are trademarks of Intel Corporation or its subsidiaries 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.

