HP ZBook Studio G5 Mobile Workstation

Get the perfect blend of ultra-slim design & pro-grade performance in the new HP ZBook Studio. Remove limitations from your creative workflow with fast editing and rendering, and bring your ideas to life on HP's brightest 4K UHD laptop[1] display.

HP recommends Windows 10 Pro.

HP's brightest 4K UHD laptop display

See your work in one billion vibrant colors on the HP DreamColor display with 600 nits of brightness. Master color-critical work with 100% Adobe RGB coverage that helps maintain perfect color every single time.

More powerful than ever before

Get ultra fast performance with the latest Intel® Core™ i9 processors and 64 GB memory[2]. Render photorealistic images with certified NVIDIA® Quadro® P2000 graphics - optimized for stability and peak performance with professional software apps.

HP's most secure mobile workstation

Protect your work with industry-leading security features. A touch of a button activates HP Sure View[3] privacy screen to protect against visual hacking and RAID 1[4] maintains a backup copy of all your files in case you ever need it.
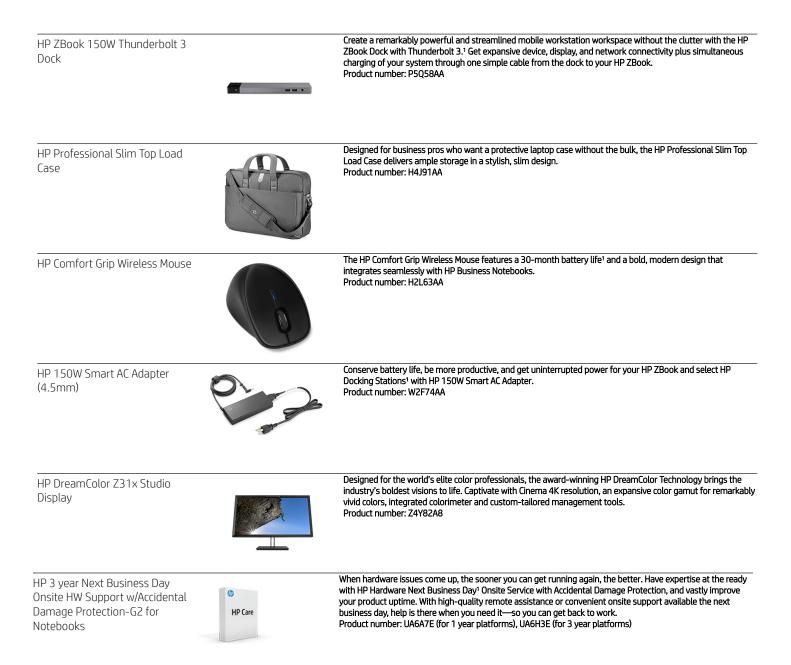
Featuring

- 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.[8]
- Do more at once with next-generation 6-core Intel® Core™ i9 or Intel® Xeon® processors designed to handle complex, multi-threaded applications like Adobe Premier Pro.[9]
- Seamlessly edit your designs and render multi-layered files with certified NVIDIA® Quadro® P2000 graphics, optimized for stability and performance with professional software apps.[10]
- Create seamlessly. Save and access large files locally with up to 4 TB local NVMe storage, up to 21 times faster than standard HDD storage and six times faster than SATA SSD.[11]
- Get remarkable, real time performance running multiple applications simultaneously with up to 64 GB RAM.[12]
- 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 45 minutes).[13,14]
- 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.[15]
- Take your work outdoors with the anti-glare display and built in ambient light sensor that dims or brightens based on your surroundings.[16]
- Host virtual meetings with the HP Collaboration Keyboard, HP World Facing Microphone & optional web cam. Get premium audio with 4 speakers tuned by Bang & Olufsen & a discrete amp.
- Experience fast transfer and upload speeds with dual Thunderbolt™ 3 ports. Keep all your devices and peripherals 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 24 x 7 x 365 workloads and passed 14 rigorous military standard tests like shock, drop and dust.[17]
- Innovative docking solution that takes you from laptop to desktop experience. Connect dual 4K UHD displays, charge your devices, take a conference call, and transfer data quickly.[18]

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] Red Hat® Enterprise Linux® 7 - Web support only [32] FreeDOS 2.0
Processor Family	Intel® Xeon® processor (E-2176M, E- 2186M); 8th Generation Intel® Core™ i9 processor (i9-8950HK); 8th Generation Intel® Core™ i7+ processor (Core™ i7 and Intel® Optane™ memory) (i7-8750H, i7-8850H); 8th Generation Intel® Core™ i7 processor (i7-8750H, i7-8850H); 8th Generation Intel® Core™ i5+ processor (Core™ i5 and Intel® Optane™ memory) (i5-8300H, i5-8400H); 8th Generation Intel® Core™ i5 processor (i5-8300H, i5-8400H) [2,3,30,31,34]
Processors[2,3,30,31,34]	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® 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® Core™ i9 8950HK with Intel® UHD Graphics 630 (2.9 GHz base frequency, up to 4.8 GHz with Intel® Turbo Boost Technology, 12 MB cache, 6 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™ 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™ 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+ 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™ 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+ 8300H (Core™ i5 and 16 GB Intel® Optane™ memory) 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) 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	64 GB DDR4-2667 non-ECC SDRAM; 32 GB DDR4-2667 ECC SDRAM; 32 GB DDR4-2667 non-ECC SDRAM [5,35] (Transfer rates up to 2667 MT/s.)
Memory Slots	2 SODIMM
Internal Storage	2 TB 5400 rpm SATA [6] 500 GB up to 1 TB 7200 rpm SATA [6] 500 GB 7200 rpm SATA SED [6] 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] 256 GB M.2 SATA SED SSD [6] 256 GB up to 2 TB PCIe® NVMe™ M.2 SSD [6] 256 GB up to 512 GB PCIe® NVMe™ M.2 SED SSD [6] 2 x 1 TB up to 2 x 2 TB PCIe® NVMe™ M.2 SSD [6,35,36]
Display	HP DreamColor 15.6" diagonal 4K IPS anti-glare LED-backlit, 600 cd/m², 100% AdobeRGB (3840 x 2160); 15.6" diagonal 4K IPS eDP + PSR anti-glare LED-backlit and ambient light sensor, 400 cd/m² (3840 x 2160); 15.6" diagonal FHD IPS eDP + PSR anti-glare LED-backlit with ambient light sensor, 400 cd/m² (1920 x 1080); HP Sure View 15.6" diagonal FHD IPS eDP + PSR LED-backlit touch screen with Corning® Gorilla® Glass 4, 650 cd/m² (1920 x 1080) [8]
Available Graphics	Integrated: Intel® UHD Graphics 630; Intel® UHD Graphics P630 [8,9] Discrete: NVIDIA® Quadro® P1000 (4 GB GDDR5 dedicated); NVIDIA® Quadro® P2000 (4 GB GDDR5 dedicated) [10] (Intel® UHD Graphics 630 integrated on Core™ i7, Core™ i5 and Core™ i9 processors. Intel® UHD Graphics P630 integrated on Xeon® processors.)
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)
Networking	: 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)
Audio	HP tuned Bang & Olufsen, quad stereo speakers, HP World Facing Microphone supporting HP Noise Reduction Software, keyboard functions keys for volume up and down, combo microphone/headphone jack, HD audio, HP Clear Sound Amp [13]
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]
Power	150 W Slim Smart external AC power adapter HP Long Life 6-cell, 95.6 Wh Li-ion polymer; HP Long Life 4-cell, 64 Wh Li-ion polymer [25,33]
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; 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; Windows Defender [18,19,20,21,25,26,27,28]
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; HP Client Security Suite Gen4 [14,15,16,17]
Dimensions (W x D x H)	14.17 x 10 x 0.35 to 0.69 in (front to rear) 36 x 25.4 x 0.88 to 1.74 cm (front to rear)
Weight	Starting at 4.4 lb; Starting at 2 kg (Weight varies by configuration and components.)
Energy Efficiency Compliance	ENERGY STAR® certified and EPEAT® registered configurations available [23]
Environmental	Low halogen [24]
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. Optional HP Care Pack Services are extended service contracts which go beyond your standard limited warranties. Service levels and response times for HP Care Packs may vary depending on your geographic location.

Accessories and Services (not included)

HP ZBook 150W Thunderbolt 3 Dock	Create a remarkably powerful and streamlined mobile workstation workspace without the clutter with the HP ZBook Dock with Thunderbolt 3.[1] Get expansive device, display, and network connectivity plus simultaneous charging of your system through one simple cable from the dock to your HP ZBook. Product number: P5Q58AA
HP Professional Slim Top Load Case	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. Product number: H4J91AA
HP Comfort Grip Wireless Mouse	The HP Comfort Grip Wireless Mouse features a 30-month battery life[1] and a bold, modern design that integrates seamlessly with HP Business Notebooks. Product number: H2L63AA
HP 150W Smart AC Adapter (4.5mm)	Conserve battery life, be more productive, and get uninterrupted power for your HP ZBook and select HP Docking Stations[1] with HP 150W Smart AC Adapter. Product number: W2F74AA
HP DreamColor Z31x Studio Display	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. Product number: Z4Y82A8
HP 3 year Next Business Day Onsite HW Support w/Accidental Damage Protection-G2 for Notebooks	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[1] 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. Product number: UA6A7E (for 1 year platforms), UA6H3E (for 3 year platforms)

Messaging Footnotes

[1] Based on internal analysis of laptops, clamshell form factor brightness based on 4K UHD nits as of March 26, 2018.
[2] 64 GB RAM planned to be available in December 2018.
[3] HP Sure View integrated privacy screen is an optional feature that must be configured at purchase and functions in landscape orientation.
[4] Raid 1 planned to be available in December 2018.
[8] 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
[9] Adobe Premier Pro is sold separately.
[10] NVIDIA® Quadro® P2000 graphics is a configurable option.
[11] 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.
[12] 64 GB RAM planned to be available in December 2018.
[13] 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.
[14] Recharges the battery up to 50% within 45 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.
[15] Weight will vary by configuration.
[16] Ambient light sensor only available on select models with standard and full UHD (not available with HP DreamColor or privacy display models)
[17] MIL-STD-810G 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.

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. 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.
[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] Windows Defender Opt In, Windows 10, and internet connection required for updates.
[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.
[34] Intel® Optane™ memory is only available if HDD is selected and 2nd M.2 is not selected.
[35] Available in December 2018.
[36] RAID 1 Configuration requires 2 NVMe PCIe M.2 drives; both drives must be the same capacity and only available on NVMe technology.

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