HP ZBook Studio x360 G5 Convertible Workstation

Reimagine your creative process with a versatile laptop that gives you the latest convertible design you'll want with the pro-grade performance you need. Showcase your work like never before with five unique modes.

HP recommends Windows 10 Pro for business

360-degree pro performance

• Finally, a convertible laptop designed to tackle large files and run multiple apps with speed and responsiveness. Seamlessly edit and render high-res images without delay, with NVIDIA® Quadro® P2000 graphics, 64 GB memory[1] and Intel® Core™ i9 processors.

Precision-crafted versatility

• With our innovative 360-degree hinge, you'll get the comfort of a laptop, the convenience of a tablet and the luxury of additional modes to help you showcase your work.

Pixel-perfect tools

• Achieve remarkable inking precision with 4096 levels of pressure sensitivity and tilt with the Wacom AES pen.

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 x360.

• Create on the go with the professional Wacom AES pen featuring 4K pressure sensitive levels, tilt and two customizable buttons.

• Take your work outdoors with the anti-glare touch display and built in ambient light sensor that dims or brightens based on your surroundings.

• 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).

• Create seamlessly. Save and access large files locally with up to 4TB local NVMe storage, up to 21 times faster than standard HDD storage and six times faster than SATA SSD.

• Do more at once with next-generation six-core Intel® Core™ i9 or Intel® Xeon® processors designed to handle complex, multi-threaded applications like Adobe Premier Pro.

• Seamlessly edit your designs and render multi-layered files with certified NVIDIA® Quadro® P2000 graphics, optimized for stability and performance with professional software apps.

• Protect your work with HP Sure View that activates a privacy screen at the touch of a button and RAID 1 that keeps a backup copy of all your files in case you ever need it.

• 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.

• 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.

• Confidently take your work anywhere knowing your HP ZBook Studio x360 was built for 24 x 7 x 365 workloads and passed 14 rigorous military standard tests like shock, drop and dust.

• Accidents happen - which is why we designed our minor spill-resistant full-sized chiclet keyboard with a chemically strengthened glass cover to help prevent wear and tear.

HP recommends Windows 10 Pro for business

HP ZBook Studio x360 G5 Convertible Workstation Specifications Table

Available Operating Systems	Windows 10 Pro 64 – HP recommends Windows 10 Pro for business[1] Windows 10 Home 64[1] Windows 10 Pro for Workstations 64[1] Red Hat® Enterprise Linux® 7 - Web support only[32] Ubuntu 16.04.3 LTS - Web support only[32] FreeDOS 2.0
Processor family[2,3,4,30,31]	9th Generation Intel® Core™ i9 processor; 9th Generation Intel® Core™ i7 processor; 8th Generation Intel® Core™ i9 processor (i9-8950HK); 8th Generation Intel® Core™ i7 processor (i7-8750H, i7-8850H); 8th Generation Intel® Core™ i5 processor (i5-8300H, i5-8400H)
Available Processors[2,3,4,30,31]	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™ 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 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™ 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 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™ 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, vPro™ Intel® Core™ i9-9980H 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)
Display size (diagonal)	15.6"
Viewing angle	##displayviewangle##
Maximum memory	64 GB DDR4-2667 non-ECC SDRAM; 32 GB DDR4-2667 ECC SDRAM; 32 GB DDR4-2667 non-ECC SDRAM [5,34] Transfer rates up to 2667 MT/s.
Memory slots	2 SODIMM
Internal storage	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[6,34,35]
Display[9]	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) HP DreamColor 15.6" diagonal 4K IPS LED-backlit touch screen with Corning® Gorilla® Glass 4, 600 cd/ m², 100% AdobeRGB (3840 x 2160) HP DreamColor 15.6" diagonal 4K IPS LED-backlit anti-glare touch screen with Corning® Gorilla® Glass 4, 600 cd/ m², 100% AdobeRGB (3840 x 2160) 15.6" diagonal FHD IPS eDP + PSR LED-backlit touch screen with Corning® Gorilla® Glass 4 and ambient light sensor, 400 cd/m² (1920 x 1080) 15.6" diagonal 4K IPS eDP + PSR LED-backlit touch screen with Corning® Gorilla® Glass 4 and ambient light sensor, 400 cd/m² (3840 x 2160)
Available Graphics	Integrated: Intel® UHD Graphics 630; Intel® UHD Graphics P630[9,10] Discrete: NVIDIA® Quadro® P1000 (4 GB GDDR5 dedicated); NVIDIA® Quadro® P2000 (4 GB GDDR5 dedicated)[11] (Intel® UHD Graphics 630 integrated on Core™ i7, Core™ i5 and Core™ i9 processors. Intel® UHD Graphics P630 integrated on Xeon® processors.)
Audio[13]	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
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)
Available Keyboards	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
Available Pointing Devices	Image sensor touchpad with on/off button, two-way scroll, gestures, three buttons; HP ZBook x360 Pen[36]
WLAN [7]	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™ Optional Near Field Communication (NFC) module
WWAN [8,14]	HP lt4132 LTE/HSPA+ 4G Mobile Broadband Module Intel® XMM™ 7360 LTE Advanced Optional Near Field Communication (NFC) module
Camera[9,12,14,30]	HP Privacy HD IR Camera 720p, face authentication with Windows Hello
Available Software[15,16,17,18]	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
Security management[19,20,21,22,23,26,27,28,29]	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
Power	150 W Slim Smart external AC power adapter
Battery type[26,31]	HP Long Life 6-cell, 95.6 Wh Li-ion polymer
Dimensions	14.17 x 10 x 0.35 to 0.74 in (front to rear); 36 x 25.4 x 0.88 to 1.87 cm (front to rear)
Weight	Starting at 4.9 lb; Starting at 2.26 kg
Ergonomic features	##displaytiltswiv##
Energy efficiency compliance[24]	ENERGY STAR® certified and EPEAT® registered configurations available
Environmental specifications[25]	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. 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.

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Accessories and services (not included)

HP 3 year Next Business Day Onsite HW Support w/Accidental Damage Protection-G2 for Notebooks 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 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: UA6Z7E (for 1 year platforms), UB0E4E (for 3 year platforms)

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Messaging Footnotes

[1] 64 GB RAM planned to be available in December 2018.
[2] DreamColor display with anti-glare and Wacom AES pen optional and only available with certain configurations. DreamColor display required for one billion colors.
[3] 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
[4] Wacom AES pen optional and only available with certain configurations.
[5] Ambient light sensor only available on select models with standard and full UHD (not available with HP DreamColor or HP Sure View display models).
[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 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.
[8] 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.
[9] Adobe Premier Pro sold separately.
[10] NVIDIA® Quadro® P2000 graphics is a configurable option.
[11] HP Sure View integrated privacy screen is an optional feature that must be configured at purchase and functions in landscape orientation.
[12] Raid 1 will not be available until December 2018.
[13] 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.
[14] ZBook dock with Thunderbolt™ and dual displays sold separately.

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 Intel® Core™ i5 with vPro™/Core™ i7 with vPro™/Core™ i9 with vPro™/Xeon® with vPro™ technology, such as Intel® Active Management technology and Intel® Virtualization technology, requires additional third-party software in order to run. Availability of future "virtual appliances" applications for Intel® Core™ i5 with vPro™/Core i7 with vPro™/ Core™ i9 with vPro™/XEON® with vPro™ technology is dependent on third- party software providers. Compatibility with 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] 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.
[9] HD content required to view HD images.
[10] Intel® HD graphics 630 is configurable as a standalone graphics option; Intel® HD graphics P630 only used when NVIDIA® Optimus™ Technology is enabled.
[11] 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.
[12] Privacy camera not available on touchscreen.
[13] Dual-microphone array when equipped with optional webcam and optional world facing microphone.
[14] Optional or add-on feature
[15] 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.
[16] HP Remote Graphics Software requires a Windows, Linux®, or Mac®OS X 10.10 and newer operating system and network access.
[18] HP Client Security Suite Gen 4 requires Windows and Intel® or AMD 8th generation processors.
[19] 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.
[20] Finger Sensor is optional
[21] HP Manageability Integration Kit can be downloaded from http://www.hp.com/go/clientmanagement.
[22] HP Password manager requires Windows.
[23] HP BIOSphere Gen4 requires Intel® or AMD 8th generation processors. HP Sure Start Gen4 is available on HP Z Workstations products equipped with 8th and 9th generation Intel® or AMD processors.
[24] EPEAT® registered where applicable. EPEAT registration varies by country. See www.epeat.net for registration status by country.
[25] External power supplies, power cords, cables and peripherals are not low halogen. Service parts obtained after purchase may not be low halogen.
[26] 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.
[27] HP Secure Disk Erase is for the methods outlined in the National Institute of Standards and Technology Special Publication 800-88.
[28] 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.
[29] Windows Defender Opt In, Windows 10, and internet connection required for updates.
[30] Windows Hello optional
[31] 4 cell now only w/ UMA, and not possible with DSC.
[32] Supported, not preloaded.
[34] Available in December 2018.
[35] RAID 1 Configuration requires 2 NVMe PCIe M.2 drives; both drives must be the same capacity and only available on NVMe technology.
[36] HP ZBook x360 Pen using AES technology support up to 4096 levels of pressure sensitivity.

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