

# HP ZBook Studio x360 G5 Convertible Workstation



HP's most powerful convertible PC

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<sup>1</sup> 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. And with the HP DreamColor matte touchscreen, you'll experience one billion vibrant colors<sup>2</sup> on HP's brightest 4K UHD laptop display.

#### 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 ZBook Studio x360 G5 Convertible Workstation Specifications Table



Available Operating Systems	Windows 10 Pro 64 – HP recommends Windows 10 Pro for business <sup>1</sup> Windows 10 Home 64 <sup>1</sup> Windows 10 Pro for Workstations 64 <sup>1</sup> Red Hat® Enterprise Linux® 7 - Web support only <sup>32</sup> Ubuntu 16.04.3 LTS - Web support only <sup>32</sup>
Processor family <sup>2,3,4,30,31</sup>	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 <sup>2,3,4,30,31</sup>	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)
Maximum memory	64 GB DDR4-2667 non-ECC SDRAM; 32 GB DDR4-2667 ECC SDRAM; 32 GB DDR4-2667 non-ECC SDRAM <sup>5,34</sup> Transfer rates up to 2667 MT/s.
Memory slots	2 SODIMM
Internal storage	up to 256 GB SATA SSD <sup>6</sup> up to 1 TB M.2 SATA SED SSD <sup>6</sup> 256 GB up to 2 TB PCIe® NVMe™ M.2 SSD <sup>6</sup> 256 GB up to 512 GB PCIe® NVMe™ M.2 SED SSD <sup>6</sup> 2 x 1 TB up to 2 x 2 TB PCIe® NVMe™ M.2 SSD <sup>6,34,35</sup>
Display	HP Sure View 39.62 cm (15.6") diagonal FHD IPS eDP + PSR LED-backlit touch screen with Corning® Gorilla® Glass 4, 650 cd/m <sup>2</sup> (1920 x 1080); HP DreamColor 39.62 cm (15.6") diagonal 4K IPS LED-backlit touch screen with Corning® Gorilla® Glass 4, 600 cd/m <sup>2</sup> , 100% AdobeRGB (3840 x 2160); HP DreamColor 39.62 cm (15.6") diagonal 4K IPS LED-backlit anti-glare touch screen with Corning® Gorilla® Glass 4, 600 cd/m <sup>2</sup> , 100% AdobeRGB (3840 x 2160); 39.62 cm (15.6") diagonal FHD IPS eDP + PSR LED-backlit touch screen with Corning® Gorilla® Glass 4 and ambient light sensor, 400 cd/m <sup>2</sup> (1920 x 1080); 39.62 cm (15.6") diagonal 4K IPS eDP + PSR LED-backlit touch screen with Corning® Gorilla® Glass 4 and ambient light sensor, 400 cd/m <sup>2</sup> (3840 x 2160) <sup>9</sup>
Available Graphics	Integrated: Intel® UHD Graphics 630; Intel® UHD Graphics P630 <sup>9,10</sup> Discrete: NVIDIA® Quadro® P1000 (4 GB GDDR5 dedicated); NVIDIA® Quadro® P2000 (4 GB GDDR5 dedicated) <sup>11</sup> (Intel® UHD Graphics 630 integrated on Core™ i7, Core™ i5 and Core™ i9 processors. Intel® UHD Graphics P630 integrated on Xeon® processors.)
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 <sup>13</sup>
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 devices	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 touchpad with on/off button, two-way scroll, gestures, three buttons <sup>36</sup> ;
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™ <sup>7</sup> ; WWAN: HP It4132 LTE/HSPA+ 4G Mobile Broadband Module; Intel® XMM™ 7360 LTE Advanced <sup>8,14</sup> (Optional Near Field Communication (NFC) module)
Camera	HP Privacy HD IR Camera 720p, face authentication with Windows Hello <sup>9,12,14,30</sup>
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; HP Client Security Suite Gen4 <sup>15,16,17,18</sup>
Security management	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 <sup>19,20,21,22,23,26,27,28,29</sup>
Power	150 W Slim Smart external AC power adapter
Battery type	HP Long Life 6-cell, 95.6 Wh Li-ion polymer; HP Long Life 4-cell, 64 Wh Li-ion polymer <sup>26,31</sup>
Dimensions	36 x 25.4 x 2.04 cm
Weight	Starting at 2.26 kg (Weight varies by configuration and components.)
Ergonomic features	##displaytiltswiv##
Energy efficiency compliance	ENERGY STAR® certified and EPEAT® registered configurations available <sup>24</sup>
Environmental specifications	Low halogen <sup>25</sup>
Warranty	3 year (3-3-0) limited warranty and service offering includes 3 years of parts and labor. Terms and conditions vary by country.

## HP ZBook Studio x360 G5 Convertible Workstation

### Accessories and services (not included)

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#### HP USB-C Universal Dock



Transform your HP notebook or tablet into a complete desktop experience with the HP USB-C Universal Dock, which delivers USB-C™ charging<sup>1</sup> and connections for your network, dual 4K displays, and accessories with one cable connection. Transform your HP notebook or tablet into a complete desktop experience with the HP USB-C Universal Dock, which delivers USB-C™ charging<sup>1</sup> and connections for your network, dual 4K displays, and accessories with one cable connection. Bringing powerful, intelligently engineered workstations to power users who demand IT that performs – with uncompromising graphics and speed. HP Workstations are easy-to-buy, quick-to-deploy and simple-to-maintain solutions that support businesses, grow with complex needs and anticipate challenges.

**Product number: 1MK33AA**

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#### HP 17.3 Business Slim Top Load

Make it easy to carry your 17.3" diagonal notebook when you're on the move with the HP 17.3 Business Top Load. It has two carrying handles and a crossbody strap and is ready to help protect its precious cargo with lockable<sup>1</sup> zippers, a secure RFID pocket, and plenty of room. The HP Business Slim Top Load Case is a compact, stylish, and durable case designed for the sleek and lightweight HP slim profile business notebooks (up to 35.81 cm/14.1" diagonal screens). Bringing powerful, intelligently engineered workstations to power users who demand IT that performs – with uncompromising graphics and speed. HP Workstations are easy-to-buy, quick-to-deploy and simple-to-maintain solutions that support businesses, grow with complex needs and anticipate challenges.

**Product number: 2UW02AA**

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#### HP 3 year Next Business Day Onsite Hardware Support for Notebooks



Receive 3 years of next business day onsite HW support from an HP-qualified technician for your computing device, if the issue cannot be solved remotely.

**Product number: U4414E**

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## HP ZBook Studio x360 G5 Convertible Workstation

### Messaging Footnotes

- <sup>1</sup> 64 GB RAM planned to be available in December 2018.
- <sup>2</sup> DreamColor display with anti-glare and Wacom AES pen optional and only available with certain configurations. DreamColor display required for one billion colors.
- <sup>3</sup> 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>
- <sup>4</sup> Wacom AES pen optional and only available with certain configurations.
- <sup>5</sup> Ambient light sensor only available on select models with standard and full UHD (not available with HP DreamColor or HP Sure View display models).
- <sup>6</sup> 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](http://www.bapco.com) for additional details.
- <sup>7</sup> 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.
- <sup>8</sup> 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.
- <sup>9</sup> Adobe Premier Pro sold separately.
- <sup>10</sup> NVIDIA® Quadro® P2000 graphics is a configurable option.
- <sup>11</sup> HP Sure View integrated privacy screen is an optional feature that must be configured at purchase and functions in landscape orientation.
- <sup>12</sup> RAID 1 will not be available until December 2018.
- <sup>13</sup> 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.
- <sup>14</sup> ZBook dock with Thunderbolt™ and dual displays sold separately.

### Technical Specifications Footnotes

- <sup>1</sup> 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>.
- <sup>2</sup> 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.
- <sup>3</sup> 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>
- <sup>4</sup> 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.
- <sup>5</sup> Only 2 DIMM configurations run at 2400 MHz and 4 DIMM configurations run at 2133 MHz.
- <sup>6</sup> 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.
- <sup>7</sup> 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.
- <sup>8</sup> 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.
- <sup>9</sup> HD content required to view HD images.
- <sup>10</sup> Intel® HD graphics 630 is configurable as a standalone graphics option; Intel® HD graphics P630 only used when NVIDIA® Optimus™ Technology is enabled.
- <sup>11</sup> 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.
- <sup>12</sup> Privacy camera not available on touchscreen.
- <sup>13</sup> Dual-microphone array when equipped with optional webcam and optional world facing microphone.
- <sup>14</sup> Optional or add-on feature
- <sup>15</sup> 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](http://www.hp.com/go/businessmobileprinting)).
- <sup>16</sup> HP Remote Graphics Software requires a Windows, Linux®, or Mac® OS X 10.10 and newer operating system and network access.
- <sup>18</sup> HP Client Security Suite Gen 4 requires Windows and Intel® or AMD 8th generation processors.
- <sup>19</sup> 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>.
- <sup>20</sup> Finger Sensor is optional
- <sup>21</sup> HP Manageability Integration Kit can be downloaded from <http://www.hp.com/go/clientmanagement>.
- <sup>22</sup> HP Password manager requires Windows.
- <sup>23</sup> 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.
- <sup>24</sup> EPEAT® registered where applicable. EPEAT registration varies by country. See [www.epeat.net](http://www.epeat.net) for registration status by country.
- <sup>25</sup> External power supplies, power cords, cables and peripherals are not low halogen. Service parts obtained after purchase may not be low halogen.
- <sup>26</sup> 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.
- <sup>27</sup> HP Secure Disk Erase is for the methods outlined in the National Institute of Standards and Technology Special Publication 800-88.
- <sup>28</sup> 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.
- <sup>29</sup> Windows Defender Opt In, Windows 10, and internet connection required for updates.
- <sup>30</sup> Windows Hello optional
- <sup>31</sup> 4 cell now only w/ UMA, and not possible with DSC.
- <sup>32</sup> Supported, not preloaded.
- <sup>34</sup> Available in December 2018.
- <sup>35</sup> RAID 1 Configuration requires 2 NVMe PCIe M.2 drives; both drives must be the same capacity and only available on NVMe technology.
- <sup>36</sup> HP ZBook x360 Pen using AES technology support up to 4096 levels of pressure sensitivity.

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