HP ZBook x2 G4 Detachable Workstation

Introducing HP's most powerful detachable PC. With remarkable performance and versatility to push your favorite Adobe® applications to the limit, no PC is better suited to turn your vision into reality.

HP recommends Windows 10 Pro.

Incredible Power for Limitless Creativity

Easily work with high resolution files and switch between applications like Adobe® Photoshop and Illustrator. Create effortlessly with quad-core Intel® Core™ processors, twice the memory of any other HP detachable PC and NVIDIA® 3D Graphics.

Multiple modes. Ultimate versatility

With the flexibility of a detachable Bluetooth® keyboard, you can go from laptop to tablet whenever inspiration strikes. Plus customizable HP Quick Keys provide 18 time-saving shortcuts for your favorite Adobe® apps.

Make every stroke count

Create without interruption with a pen that never needs to be charged. It responds instantly to every nuance of your hand with 4,096 pressure sensitive levels and natural tilt capabilities.

Featuring

- Be productive in any situation. Windows 10 Pro for Workstations and powerful security, collaboration, and connectivity features from HP help you power through your day on the HP ZBook x2.[1]
- Immerse yourself in 1 billion colors on a stunning, 4K, multi-touch display. Work in any lighting with the anti-glare touchscreen - HP's most advanced detachable PC display.[2]
- Work quickly and comfortably with 18 equivalent shortcuts at your fingertips, customized for all your favorite Adobe® applications.
- The full-sized keyboard is Bluetooth®-enabled to stay active when detached, so you have access to shortcut key combinations when working in appications like Adobe® Photoshop®.
- Experience the intersection of mobility & performance in a fully-machined, aluminum and die-cast magnesium body starting at just 3.59 pounds and 14.6 mm thin when in tablet mode.[4]
- Professional graphics performance that delivers real-time visualization of multi-layered artwork and creative projects.
- Get twice the memory capacity of any other HP detachable PC. 32GB RAM over dual channels - very responsive under heavier workloads like complex layering in Adobe® Photoshop.
- HP Z Turbo Drive storage is up to 6X faster than SATA SSD and 21X faster than traditional HDD storage. Work anywhere with confidence, with up to 2TB8 of local PCIe storage.[5]
- Work at the speed of your ideas with the latest Intel® Core™ processors and up to 4.2 GHz of turbo boost at your fingertips.[6]
- The ZBook x2 undergoes dozens of tests for certification and optimized performance with the industry's leading software providers like Adobe® and Autodesk.
- Designed to go anywhere and handle the toughest workloads. Designed to pass MIL-STD tests.[3]
- Experience the dual-fan active cooling system, designed to dissipate heat from the powerful NVIDIA® graphics cards & Intel® quad-core™ processors.

HP ZBook x2 G4 Detachable Workstation Specifications Table

Operating System	Windows 10 Pro for Workstations 64 – HP recommends Windows 10 Pro. [1] Windows 10 Pro for Workstations [1] Windows 10 Home Single Language 64 [1] FreeDOS 2.0
Processor Family	7th Generation Intel® Core™ i7 processor (i7-7500U, i7-7600U); 8th Generation Intel® Core™ i7 processor (i7-8650U, i7-8550U); 8th Generation Intel® Core™ i5 processor [2,3,25]
Processors[2,3,25]	Intel® Core™ i7-7500U with Intel® HD Graphics 620 (2.7 GHz base frequency, up to 3.5 GHz with Intel® Turbo Boost Technology, 4 MB cache, 2 cores) Intel® Core™ i7-7600U with Intel® HD Graphics 620 (2.8 GHz base frequency, up to 3.9 GHz with Intel® Turbo Boost Technology, 4 MB cache, 2 cores) Intel® Core™ i5-8250U with Intel® UHD Graphics 620 (1.6 GHz base frequency, up to 3.4 GHz with Intel® Turbo Boost Technology, 6 MB cache, 4 cores) Intel® Core™ i7-8550U with Intel® UHD Graphics 620 (1.8 GHz base frequency, up to 4 GHz with Intel® Turbo Boost Technology, 8 MB cache, 4 cores) Intel® Core™ i7-8650U with Intel® UHD Graphics 620 (1.9 GHz base frequency, up to 4.2 GHz with Intel® Turbo Boost Technology, 8 MB cache, 4 cores)
Maximum Memory	32 GB DDR4-2133 non-ECC SDRAM (Transfer rates up to 2133 MT/s.)
Memory Slots	2 SODIMM
Internal Storage	128 GB M.2 SATA SSD [4] 512 GB M.2 SATA FIPS SSD [4] 512 GB PCIe® NVMe™ M.2 SED SSD [4] 256 GB up to 2 TB PCIe® NVMe™ M.2 SSD [4] 256 GB up to 512 GB HP Z Turbo Drive PCIe® NVMe™ SSD [4]
Display	14" diagonal 4K IPS anti-glare (3840 x 2160); HP DreamColor 14" diagonal 4K IPS anti-glare touch screen (3840 x 2160)
Available Graphics	Integrated: Intel® HD Graphics 620; Intel® UHD Graphics 620 [6] Discrete: NVIDIA® Quadro® M620 (2 GB GDDR5 dedicated)
Expansion Slots	1 smart card reader; 1 SD media card reader (SD supports next generation secure digital and is backward compatible to SDHC, SDXC)
Ports and Connectors	Left side: 1 headphone/microphone combo Right side: 1 power connector; 1 HDMI 1.4; 1 USB 3.0 (charging); 2 USB 3.1 Type-C™ Thunderbolt™ 3 (DisplayPort™ 1.2)
Networking	WLAN: HP hs3110 HSPA+ Intel® Mobile Broadband Module; Intel® Dual Band Wireless-AC 8265 802.11a/b/g/n/ac (2x2) Wi-Fi® and Bluetooth® 4.2 Combo [5]
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	Backlit keyboard with function key control; Extra large clickpad with on/off button, two-way scroll, gestures, two buttons; Image sensor clickpad with on/off button, two-way scroll, gestures, two buttons; HP ZBook x2 Pen
Camera	720p HP webcam (front-facing); 720p HD webcam with IR (front-facing); 8 MP (world-facing camera) [7,8]
Power[15]	90 W external AC power adapter; 65 W external AC power adapter [15] HP Long Life 4-cell, 70 Wh Li-ion polymer Up to 10 hours [23]
Security	Absolute Persistence Module; DriveLock and Automatic DriveLock; HP Spare Key; RAID (available as a configurable option); Serial, parallel, USB enable/disable (via BIOS); Setup password (via BIOS); Power-on password (via BIOS); HP Client Security Suite Gen 3; HP Security Manager; HP Credential Manager; HP Password Manager; HP Power On Authentication; HP Device Access Manager; Trusted Platform Module TPM 2.0 Embedded Security Chip; Support for chassis padlocks and cable lock devices; Integrated hood sensor [11,12,13,14,19,24]
Software	HP Performance Advisor; HP Remote Graphics Software; HP Drive Encryption (FIPS 140-2); Microsoft Security Essentials; HP PageLift; Windows Defender; HP ePrint Driver; HP Client Security [9,10,18,26]
Dimensions (W x D x H)	0.53 x 14.35 x 8.94 in (tablet mode); 0.75 x 14.35 x 8.94 in (laptop mode) 36.45 x 22.7 x 2.03 cm (laptop mode); 36.45 x 22.7 x 1.46 cm (tablet mode); 37.08 x 25.1 x 1.86 cm
Weight	Starting at 4.78 lb (laptop mode); Starting at 3.64 lb (tablet mode) Starting at 2.17 kg (laptop mode); Starting at 1.65 kg (tablet mode)
Energy Efficiency Compliance	ENERGY STAR® certified and EPEAT® registered configurations available [16]
Environmental	Low halogen [17]
Management Features	HP Driver Packs; HP SoftPaq Download Manager (SDM) preinstalled; HP System Software Manager (SSM); HP BIOS Config Utility (BCU); HP Client Catalog; HP Management Integration Kit for Microsoft System Center Configuration Manager; LANDESK Management [20,21,22]
Warranty	3 year or 1 year limited warranty options available, depending on country. Batteries have the same 1 year or 3 year limited warranty as the platform. 24/7 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)

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 ZBook x2 Protective Case	Help protect your HP ZBook x2 in the office and on the go with HP ZBook x2 Protective Case. It has a shoulder strap for hands-free carrying, an easy-grip handle, and cutouts for access to all your essential ports. Stand it up with the integrated kickstand or mount it with the built-in VESA pattern. **Product number: Y7B68AA**
HP ZBook x2 Pen	Create and design or mark up files on the screen of your HP ZBook x2 with the HP ZBook x2 Pen. Keep your pen out of harm's way with the included pen case. Be ready for quick nib swaps with a nib removal tool, holder, 6 felt replacement nibs, and 4 POM replacement nibs for paper-like interaction. **Product number: 1VY59AA**
HP ZBook x2 Nib Set	Be ready when inspiration strikes with HP ZBook x2 Nib Set for your HP ZBook x2 Pen. It has 6 felt replacement nibs, and 4 POM replacement nibs that create a paper-like interaction for more intricate design work. **Product number: 1VY60AA**
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] 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.
[2] Sold separately or as an optional feature.
[3] 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.
[4] Weight will vary by configuration.
[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] 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.

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] For hard drives and solid state drives, 1 GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30 GB of system disk is reserved for system recovery software.
[5] 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.
[6] HD content required to view HD images.
[7] Optional or add-on feature.
[8] Windows Hello face authentication utilizes a camera specially configured for near infrared (IR) imaging to authenticate and unlock Windows devices as well as unlock your Microsoft Passport.
[9] 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.
[10] HP Remote Graphics Software: Rrequires a Windows, Linux®, or Mac®OS X 10.10 and newer operating system and network access.
[11] HP Client Security Suite Gen3 requires Windows and Intel® or AMD 7th Gen processors.
[12] 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. If Data Delete is utilized, the Recovery Guarantee payment is null and void. In order to use the Data Delete service, customers must first sign a Pre-Authorization Agreement and either create a PIN or purchase one or more RSA SecurID tokens from Absolute Software.
[13] HP Password Manager: Some websites and applications may not be supported. User may need to enable or allow the add-on / extension in the internet browser.
[14] HP Sure Start Gen3 is available on HP EliteBook, HP ZBook, and HP Z Workstation products equipped with Intel® 7th generation processors.
[15] The HP 65W Smart AC Adapter Configurations with Intel HD graphics only, does not support HP Fast Charge.
[16] EPEAT® registered where applicable. EPEAT registration varies by country. See www.epeat.net for registration status by country. Search keyword generator on HP's 3rd party option store for solar generator accessories at http://www.hp.com/go/options www.hp.com/go/options
[17] External power supplies, power cords, cables and peripherals are not low halogen. Service parts obtained after purchase may not be low halogen.
[18] HP Support Assistant: Requires Windows and Internet Access.
[19] Power On Authentication: HP commercial platforms support password with this feature and fingerprint where applicable.
[20] HP SoftPaq Download Manager (SDM); HP System Software Manager (SSM); HP Management Integration Kit for Microsoft System Center Configuation Manager: Not preinstalled, however available for download at http://www.hp.com/go/clientmanagement.
[21] HP Driver Packs not preinstalled, however available for download at http://www.hp.com/go/clientmanagement.
[22] HP Management Integration Kit can be downloaded from http://www8.hp.com/us/en/ads/clientmanagement/overview.html.
[23] Hybrid Graphics configurations and Intel HD graphics configurations.
[24] Requires Windows and Intel® 7th generation processors
[25] HP ZBook x2 G4 detachable pc is planned to be available for shipment with the above Intel® 7th generation processors in December 2017 and Intel 8th Gen processors in early 2018.
[26] Windows Defender Opt In, Windows 10, and internet connection required for updates.

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