

HP ZBook Studio G5 Mobile Workstation (2Q454UT)



Smaller, faster and brighter than ever

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 for business

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

Windows 10 Pro for Workstations 64

Work without compromising on performance or security with Windows 10 Pro for Workstations, powered by HP's collaboration and connectivity technology. [5]

Intel® Core™ i7 processor

Run several CPU-heavy programs simultaneously without sacrificing performance with an Intel® Core™ i7 processor. [6]

NVIDIA® Quadro® P1000 graphics card

Get stable, reliable performance on demanding professional applications with NVIDIA® Quadro® P1000 graphics. [10]

HP Z Turbo Drive High-speed Storage

Work without limits in any location with local PCIe storage that's up to 6x faster than SATA SSD, and up to 21x faster than traditional HDD storage. [7]

HP Collaboration Keyboard

Launch and manage calls from anywhere using Skype® with HP Noise Cancellation and the world-facing third microphone. Shortcut keys, including start/stop call, calendar and screen share, enable efficient and effective collaboration. [8]

Specifications

Operating system	Windows 10 Pro 64
Processor family	9th Generation Intel® Core™ i7 processor
Processor	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)
Memory	32 GB DDR4-2666 SDRAM (2 x 16 GB)
Memory Slots	2 SODIMM
Internal Storage	512 GB PCIe® NVMe™ SSD
Optical drive	Not included
Graphics	Discrete
Graphics (discrete)	NVIDIA® Quadro® P1000 (4 GB GDDR5 dedicated)
Graphics	Integrated
Graphics (integrated)	Intel® UHD Graphics 630
Display	39.6 cm (15.6") diagonal FHD IPS anti-glare WLED-backlit with HP Sure View integrated privacy screen, Corning® Gorilla® Glass 4, 650 nits, 72% NTSC (1920 x 1080)
Display	15.6" diagonal FHD IPS anti-glare WLED-backlit with HP Sure View integrated privacy screen, Corning® Gorilla® Glass 4, 650 nits, 72% NTSC (1920 x 1080) ^[B]
Display size (diagonal)	39.6 cm (15.6")
Display size (diagonal)	15.6"
Audio features	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
Minimum dimensions (W x D x H)	36 x 25.4 x 0.88 to 1.74 cm (front to rear)
Minimum dimensions (W x D x H)	14.17 x 10 x 0.35 to 0.69 in (front to rear)
Weight	Starting at 2 kg <i>(Weight varies by configuration and components.)</i>
Weight	Starting at 4.4 lb; <i>(Weight varies by configuration and components.)</i>
Keyboard	HP Collaboration Privacy Keyboard, spill-resistant, backlit and function key control
Pointing device	Clickpad with multi-touch gesture support
Camera	720p HD webcam with IR
Ports	1 USB 3.0; 1 USB 3.0 (charging)
Expansion slots	1 UHS-II SD card reader <i>(SD supports next generation secure digital and is backward compatible to SDHC, SDXC)</i>
Ports	1 HDMI 2.0; 1 headphone/microphone combo; 1 power connector; 2 USB 3.1 Type-C™ Thunderbolt™ 3 (DisplayPort™ 1.3)
Network interface type	WLAN
Network interface	Intel® Dual Band Wireless-AC 9560 802.11ac (2x2) Wi-Fi® and Bluetooth® 5.0 Combo
Power	150 W external AC power adapter
Battery type	HP Long Life 6-cell, 95.6 Wh Li-ion polymer
Energy efficiency	ENERGY STAR® certified
Environmental	Low halogen
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 ^[18,19,20,21,25,26,27,28]
UPC number	194850522802
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

No Recommended Accessories and Services

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.
- [5] 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>.
- [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.
- [7] 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.
- [8] Skype requires Internet access and is not available in China.

Technical Specifications Footnotes

- [8] HD content required to view HD images.
- [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.
- [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.

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