HP ZBook 17 G6 Mobile Workstation (6TU96EA)

Overview

Extreme performance to meet extraordinary demands

Our flagship ZBook is our ultimate laptop for those who need desktop performance on the go. Edit multiple content streams, manipulate complex data and develop in virtual reality—all on an impressive 17-inch diagonal screen.

Desktop performance. Unplugged.

Blitz render times and speed through multi-app workflows with next generation NVIDIA Quadro® graphics, 128 GB of memory[1] and multiple cores. And, with our industry-leading thermal design, everything stays cool and quiet even under the heaviest workloads.

Ready to expand. No tools required.

When your technology needs evolve, you can easily upgrade. Simply remove the back panel and switch out your memory or storage in seconds.

Software certified

Work confidently knowing your laptop is certified to tackle the most demanding applications. We've partnered with leading software providers to ensure your ZBook is optimized for peak performance.

Features

Windows 10 Pro 64

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

Intel® Core™ i7 processor

Run several CPU–heavy programs simultaneously without sacrificing performance with an Intel® Core™ i7 processor.[1]

17.3" (43.9 cm) Diagonal FHD Display

Get clear and sharp visuals in full high definition. Comfortably work in any light setting with reduced glare and an ambient light sensor that automatically dims or brightens your screen based on your surroundings.

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.[2]

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.[3]

Spill-resistant Keyboard

Accidents happen - which is why we designed our keyboard with a drain hole, so minor spills flow out the bottom for easy cleanup.

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[1] 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.

[2] 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.

[3] Skype requires Internet access and is not available in China.

Specifications

Operating system	Windows 10 Pro 64
Processor family	9th Generation Intel® Core™ i7 processors (i7 9750H, I7 9850H)
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	16 GB DDR4-2666 SDRAM (1 x 16 GB)
Memory Slots	4 SODIMM
Internal Storage	256 GB PCIe® NVMe™ SSD
Graphics	Integrated
Graphics (integrated)	Intel® UHD Graphics 630
Display	43.9 cm (17.3") diagonal FHD IPS anti-glare WLED-backlit with ambient light sensor, 300 nits, 72% NTSC (1920 x 1080)
Display	17.3" diagonal FHD IPS anti-glare WLED-backlit with ambient light sensor, 300 nits, 72% NTSC (1920 x 1080)[21,23]
Display size (diagonal)	43.9 cm (17.3")
Display size (diagonal)	17.3"
Audio features	Audio by Bang & Olufsen, dual stereo speakers, HP World Facing Microphone dual array digital microphone, functions keys for volume up and down, combo microphone/headphone jack, HD audio
Minimum dimensions (W x D x H)	41.6 x 28.8 x 3.3 cm
Minimum dimensions (W x D x H)	16.4 x 11.3 x 1.3 in
Weight	Starting at 3.2 kg *(Weight varies by configuration and components.)*
Weight	Starting at 7 lb *(Weight varies by configuration and components.)*
Keyboard	HP Dual Point backlit spill-resistant Collaboration Keyboard
Camera	720p HD webcam
Ports	1 RJ-45; 1 USB 3.1 Gen 1 (charging); 2 USB 3.1 Gen 1
Expansion slots	1 smart card reader; 1 SD media card reader
Ports	1 power connector; 1 Mini DisplayPort™ 1.4; 1 HDMI 2.0b; 1 headphone/microphone combo; 2 USB Type-C™ (Thunderbolt™ 3, pass through support DispalyPort™ 1.4, USB 3.1 Gen 2, with BC 1.2)
Network interface	Intel® Dual Band Wi-Fi 6 AX200 (2x2) and Bluetooth® 5 combo, non-vPro™
Power	200 W Slim Smart 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; HP BIOSphere Gen5; HP Client Security Suite Gen5; HP Device Access Manager; HP FingerPrint Sensor; HP Manageability Integration Kit; HP Power On Authentication; HP Secure Erase; HP Security Manager; HP Sure Recover Gen2; HP Sure Sense; HP Sure Start Gen5; Master Boot Record security; Microsoft Defender; Pre-boot authentication; Security lock slot; Trusted Platform Module TPM 2.0 Embedded Security Chip[22,24,30,31,33,34,38,47,49,50]

Additional specifications

Accessories	HP Z32 4k UHD Display, 1AA81A8; HP Thunderbolt Dock w/combo cable G2, 3TR87AA; HP 17.3 Business Slim Top Load, 2UW02AA; HP Slim Wireless Keyboard and Mouse, T6L04AA; ZBook 17 G5 battery kit (95 Whr), 4ME80AA; HP 3 year Next Business Day Onsite HW Support w/Accidental Damage Protection-G2 for Notebooks, UA6A7E (for 1 year platforms), UA6H3E (for 3 year platforms).
Display	17.3" diagonal Full HD display
Display	43.9 cm (17.3") diagonal Full HD display
External I/O ports footnote number	[6,15,48]
Graphics	Discrete
Graphics (discrete)	NVIDIA® Quadro® T1000 (4 GB GDDR5 dedicated)
I/O Port location	Right side
I/O Port location	Left side
Legal tagline	HP recommends Windows 10 Pro.
MDA key selling point	Windows 10 Pro or other operating systems available
Memory and storage	16 GB memory; 256 GB SSD storage
Memory slots footnote	[8,9,10]
Processor speed	2.6 GHz
Standard memory note	Transfer rates up to 2666 MT/s.
Storage acceleration	16 GB PCIe® NVMe™ Intel® Optane™ Memory for storage acceleration[49]
Storage type	SSD
UNSPSC code	43211503

[21] UHD content required to view UHD images.

[22] HP BIOSphere - Requires Intel® 8th generation processors. HP Sure Start Gen5 - Available on HP Elite and HP Z Workstation products equipped with Intel® 8th generation processors.

[23] Resolutions are dependent upon monitor capability, and resolution and color depth settings.

[24] HP Client Security Manager Gen5 requires Windows and is available on select HP Pro, Elite and Z PCs. See product specifications for details.

[30] HP Manageability Integration Kit can be downloaded from http://www.hp.com/go/clientmanagement

[31] Absolute agent is shipped turned off, and will be activated when customers activate a purchased subscription. Subscriptions can be purchased for terms ranging multiple years. Service is limited, check with Absolute for availability outside the U.S. The Absolute Recovery Guarantee is a limited warranty. Certain conditions apply. For full details visit: http://www.absolute.com/company/legal/agreements/computrace-agreement. Data Delete is an optional service provided by Absolute Software. If utilized, the Recovery Guarantee is null and void. In order to use the Data Delete service, customers must first sign a Pre-Authorization Agreement and either obtain a PIN or purchase one or more RSA SecurID tokens from Absolute Software.

[33] Microsoft Defender Opt in and internet connection required for updates.

[34] Security lock slot is Lock sold separately.

[38] HP Sure Start Gen5 is available on select HP PCs with Intel processors. See product specifications for availability.

[47] Secure Erase - For the methods outlined in the National Institute of Standards and Technology Special Publication 800-88 "Clear" sanitation method. HP Secure Erase does not support platforms with Intel® Optane™.

[49] HP Sure Recover Gen2: See product specifications for availability. Requires an open, wired network connection. Not available on platforms with multiple internal storage drives. You must back up important files, data, photos, videos, etc. before using HP Sure Recover to avoid loss of data. HP Sure Recover (Gen1) does not support platforms with Intel® Optane™.

Keyboards/Mice/Monitors and Input Devices

Keyboard and Mouse Kits

HP Wireless (Link-5) Keyboard	T6U20AA
HP USB Essential Keyboard and Mouse	H6L29AA
HP Slim USB Keyboard and Mouse	T6T83AA
HP Slim Wireless Keyboard and Mouse	T6L04AA

Mice

HP Slim Bluetooth Mouse	F3J92AA
HP Ultra Mobile Wireless Mouse	H6F25AA
HP X4000b Bluetooth Mouse	H3T50AA
HP USB Fingerprint Mouse	4TS44AA
USB Travel Mouse	G1K28AA
HP Elite Presenter Mouse	2CE30AA
HP Wireless Premium Mouse	1JR31AA
HP Essential USB Mouse	2TX37AA
HP USB Premium Mouse	1JR32AA
HP Comfort Grip Wireless Mouse	H2L63AA
HP 3-button USB Laser Mouse	H4B81AA
HP Bluetooth Travel Mouse	6SP30AA

Keyboards

HP USB Collaboration Keyboard	Z9N38AA
HP Wireless Collaboration Keyboard	Z9N39AA
HP Conferencing Keyboard	K8P74AA

Docking and Port Replicators

Docking Stations

HP Thunderbolt Dock G2 with Combo Cable	3TR87AA
HP Thunderbolt Dock 230W G2	2UK38AA
HP USB-C/A Universal Dock G2	5TW13AA
HP USB-C Dock G5	5TW10AA

HP USB-C Mini Dock	1PM64AA
HP USB-C Premium Hub	4WX89AA
HP USB-C Dock G4	3FF69AA
HP USB-C Universal Dock	1MK33AA
HP USB-C Mini Dock	1PM64UT
HP USB-C Dock G5	5TW10UT
HP USB-C Universal Dock	1MK33UT
HP USB-C/A Universal Dock G2	5TW13UT

Port Replicators

HP USB Travel Dock	T0K30AA

Docking Accessories

HP USB-C Universal Dock Non Flash	3DV65AA
HP Thunderbolt Dock Audio Module	3AQ21AA
HP Thunderbolt Dock Audio Module	3AQ21UT

Cabinets and Stands

Notebook Stands

HP Hot Desk Stand	W3Z73AA
HP Dual Hinge II Notebook Stand	E8F99AA
HP Hot Desk 2nd Monitor Arm	W3Z74AA

Monitor Stands

Monitor Stand	M9X76AA
HP Adjustable Dual Display Stand	AW664AA

Notebook and Monitor Stands

HP Adjustable Display Stand	AW663AA

Audio/Multimedia and Communication Devices

Phones

HP UC Speaker Phone	4VW02AA

Headsets

HP UC Wired Headset	K7V17AA

HP UC Wireless Duo Headset	W3K09AA
HP Stereo 3.5mm Headset	T1A66AA
HP Stereo USB Headset	T1A67AA
HP UC Wireless Mono Headset	W3K08AA

Memory

DDR4 Memory

HP 8 GB 2666 MHz DDR4 Memory	4VN06AA
HP 16 GB 2666 MHz DDR4 ECC	4UY12AA
HP 8 GB 2666 MHz DDR4 ECC	4UY11AA
HP 16 GB 2666 MHz DDR4 Memory	4VN07AA
HP 32GB 2666MHz DDR4 N-ECC	6NX83AA

Cables/Cable Kits/Cable Adapters

Cable Adapters

HP USB-C to USB 3.0 Adapter	N2Z63AA
HP USB-C to USB-A Hub	Z6A00AA
HP USB-C to HDMI 2.0	1WC36AA
HP Thunderbolt Dock G2 Combo Cable	3XB96AA
HP USB-C to VGA Adapter	N9K76AA
HP USB-C to DP Adapter	N9K78AA
HP Thunderbolt 230W G2 Cable	3XB95AA

Audio and Video Cables

HP HDMI to DVI Adapter	F5A28AA

Cables and Cable Kits

HP USB-C to USB-C 100W cable (Z Display dock/charge)	5AR72AA

PC Cable Options

HP ZBook Thunderbolt 3 1m Cable	Z4P20AA

Security and Protection

PC Locks

HP Dual Head Master Cable Lock 10 mm	T1A65AA

HP Master Keyed Cable Lock 10mm	T1A63AA
HP Essential Combination Lock	T0Y16AA
HP Sure Key Cable Lock	6UW42AA
HP Essential Keyed Cable Lock	T0Y14AA
HP Keyed Cable Lock 10 mm	T1A62AA
HP Combination Lock	T0Y15AA
HP Dual Head Keyed Cable Lock 10 mm	T1A64AA

Batteries/Chargers/Adapters

AC Adapters

HP 200W Slim Smart AC Adapter (4.5mm)	4SC19AA
HP 7.4 mm to 4.5 DC Dongle	K0Q39AA

Cases and Covers

Cases

HP 17.3 Business Slim Top Load	2UW02AA
HP Executive 17.3 Top Load	6KD08AA
HP Essential Messenger Case	H1D25AA
HP 17.3 Business Roller Case	2SC68AA

Backpacks

HP 17.3 Business Backpack	2SC67AA
HP Exec 17.3 Midnight Backpack	1KM17AA
HP Executive 17.3 Backpack	6KD05AA

Network Adapters

Wireless LAN

HP XMM™ 7360 LTE-Advance WWAN	3FB01AA

PC Drives and Storage

PC Solid State Drives

HP 256GB 2280 M2 PCIe 3x4 NVME	V3K66AA
HP 1TB TLC PCIe 3x4 NVMe M.2 Solid State Drive	6SK99AA
HP 512 GB TLC PCIe 3x4 NVMe M.2 Solid State Drive	1FU88AA

HP 2TB TLC PCIe 3x4 NVMe M.2 Solid State Drive	6SL00AA

PC DVD Drives

HP External USB DVDRW Drive	F2B56AA

Graphics Cards

Graphics Connectors/Adapters

HP HDMI to VGA Adapter	H4F02AA

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