



HP ZBook 17 G6 Mobile Workstation (9JG50UA)



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.

Specifications

Operating system	Windows 10 Pro 64
Processor family	9th Generation Intel® Core™ i9 processor
Processor	Intel® Core™ i9-9880H (2.3 GHz base frequency, up to 4.8 GHz with Intel® Turbo Boost Technology, 16 MB L3 cache, 8 cores)
Memory	64 GB DDR4-2666 MHz RAM (2 x 32 GB)
Memory Slots	4 SODIMM
Internal Storage	512 GB PCIe® NVMe™ TLC SSD
Hard drive (2nd)	1 TB PCIe® NVMe™ TLC SSD
Optical drive	Not included
Graphics	Integrated
Graphics (integrated)	Intel® UHD Graphics 630
Display	43.9 cm (17.3") diagonal, FHD (1920 x 1080), IPS, anti-glare, 300 nits, 72% NTSC
Display	17.3" diagonal, FHD (1920 x 1080), IPS, anti-glare, 300 nits, 72% NTSC ^[21,23]
Display size (diagonal)	43.9 cm (17.3")
Display size (diagonal)	17.3"
Audio	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 Collaboration Keyboard – spill-resistant, backlit, dual point keyboard with numeric keypad
Pointing device	Touchpad with multi-touch gesture support
Camera	720p HD privacy camera
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 DisplayPort™ 1.4, USB 3.1 Gen 2, with BC 1.2)
Network interface type	WLAN
Wireless	Intel® Dual Band Wi-Fi 6 AX200 (2x2) and Bluetooth® 5 combo, vPro™

Wireless	Intel® Dual Band Wi-Fi 6 AX200 (2x2) and Bluetooth® 5 combo, vPro®
Power	200 W Slim Smart external AC power adapter
Battery type	HP Long Life 6-cell, 95.6 Wh Li-ion polymer
Ecolabels	EPEAT® registered
Energy star certified	ENERGY STAR® certified
Sustainable impact specifications	Low halogen
Security management	Absolute persistence module; HP Device Access Manager; HP Power On Authentication; HP Security Manager; Security lock slot; Trusted Platform Module TPM 2.0 Embedded Security Chip; Master Boot Record security; Pre-boot authentication; HP BIOSphere Gen5; HP Sure Start Gen5; HP Secure Erase; HP Manageability Integration Kit; HP Sure Recover Gen2; Microsoft Defender; HP Client Security Suite Gen5; HP Sure Sense ^[22,24,30,31,33,34,38,47,49,50]
UPC number	194721648211

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).
Ambient light sensor	Ambient light sensor
Battery brand	HP
Battery capacity	95.6
Battery capacity uom	Wh
Battery cells number	6
Battery life	Long Life
Battery type	Li-ion polymer
Bluetooth version	Bluetooth® 5.0
Camera Infrared	IR
Camera resolution (vertical)	1080p
Camera resolution standard	HD
Color gamut	72% NTSC
Display	17.3" diagonal FHD display
Display	43.9 cm (17.3") diagonal FHD display
Display brightness	300
Display brightness uom	nits
Display panel technology	IPS
Display resolution (pixels)	1920 x 1080
Display resolution standard	FHD
Display size (diagonal) uom	"
Display size (diagonal, imperial)	17.3
Display size (diagonal, metric)	43.9
Display size (diagonal, metric) uom	cm
Display surface treatment	anti-glare
Display technology	HP DreamColor
ECC memory	non-ECC
External I/O ports footnote number	[6,15,48]
Fingerprint reader	Fingerprint reader

Graphics	Discrete
Graphics (discrete)	NVIDIA® Quadro RTX™ 5000 (16 GB GDDR6 dedicated)
Graphics card brand	NVIDIA®
Graphics card family	Quadro®
Graphics card memory size	16
Graphics card memory size uom	GB
Graphics card memory type	GDDR6
I/O Port location	Left side
I/O Port location	Right side
Keyboard backlight	backlit
Keyboard features	Spill-resistant
Keyboard keypad	numeric keypad
Keyboard name	HP Collaboration Keyboard
Keyboard pointing device	Dual point
Legal tagline	HP recommends Windows 11 Pro for business
Memory and storage	64 GB memory; 1.5 TB SSD storage
Memory layout (slots & size)	2 x 32 GB
Memory module type	DIMM
Memory size	64
Memory size uom	GB
Memory slots footnote	[8,9,10]
Memory speed	2666
Memory speed uom	MHz
Memory type	DDR4
Model Number	RTX™ 5000
Number of memory slots	2
Processor Brand	Intel®
Processor base frequency	2.3
Processor cache	16 MB L3
Processor core	8
Processor family	Core™ i9
Processor frequency UOM	GHz
Processor frequency technology	Intel® Turbo Boost Technology
Processor generation	9th Generation
Processor maximum frequency	4.8

Processor maximum frequency uom	GHz
Processor model	9880H
Processor threads	16
Standard memory note	Transfer rates up to 2666 MT/s.
Storage acceleration	16 GB PCIe® NVMe™ Intel® Optane™ Memory for storage acceleration ^[49]
Storage capacity	512
Storage capacity uom 01	GB
Storage interface 01	PCIe®
Storage interface protocol 01	NVMe™
Storage memory technology 01	TLC
Storage type	SSD
Storage type 01	SSD
UNSPSC code	43211503
Wireless Model	Wi-Fi 6 AX200
Wireless antenna	2x2
Wireless standard	Wi-Fi 6
Wireless supplier	Intel®
vPro enabled	vPro™

[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™.

Accessories

Batteries/Chargers/Adapters

★ : Recommended

AC Adapters

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

Batteries

ZBook 17 G5 battery kit (95 Whr)	4ME80AA
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Keyboards/Mice and Input Devices

Keyboard and Mouse Kits

HP Slim Wireless Keyboard and Mouse	T6L04AA ★	
HP Slim Wireless Keyboard and Mouse	T6L04UT	obsolete
HP Wired Desktop 320MK Mouse and Keyboard	9SR36AA	
HP Wired Desktop 320MK Mouse and Keyboard	9SR36ET	
HP Wired Desktop 320MK Mouse and Keyboard	9SR36UT	
HP Wireless Rechargeable 950MK Mouse and Keyboard	3M165AA	
HP Wireless Rechargeable 950MK Mouse and Keyboard	3M165UT	

Mice

HP Bluetooth Travel Mouse	6SP30AA ★
HP X4000b Bluetooth Mouse	H3T50AA ★
HP 3-button USB Laser Mouse	H4B81AA
HP 3-button USB Laser Mouse	H4B81ET
HP Bluetooth Travel Mouse	6SP30UT
HP Comfort Grip Wireless Mouse	H2L63AA
HP Comfort Grip Wireless Mouse	H2L63UT
HP Elite Presenter Mouse	2CE30AA
HP Elite Presenter Mouse	2CE30ET
HP Elite Presenter Mouse	2CE30UT
HP USB Fingerprint Mouse	4TS44AA
HP USB Fingerprint Mouse	4TS44ET
HP USB Fingerprint Mouse	4TS44UT

HP Wired Desktop 320M Mouse	9VA80AA	
HP Wired Desktop 320M Mouse	9VA80ET	
HP Wired Desktop 320M Mouse	9VA80UT	
HP Wireless Premium Mouse	1JR31AA	
HP Wireless Premium Mouse	1JR31UT	
HP X4000b Bluetooth Mouse	H3T50UT	
USB Travel Mouse	G1K28AA	
USB Travel Mouse	G1K28ET	

Keyboards

HP Wired Desktop 320K Keyboard	9SR37AA	
HP Wired Desktop 320K Keyboard	9SR37ET	
HP Wired Desktop 320K Keyboard	9SR37UT	
HP Wireless (Link-5) Keyboard	T6U20AA	
HP Wireless (Link-5) Keyboard	T6U20UT	obsolete

Security and Protection

PC Locks

HP Sure Key Cable Lock	6UW42AA ★	
HP Keyed Cable Lock 10 mm	T1A62AA ★	
HP Combination Lock	T0Y15AA	
HP Combination Lock	T0Y15UT	
HP Essential Combination Lock	T0Y16AA	
HP Essential Combination Lock	T0Y16UT	
HP Keyed Cable Lock 10 mm	T1A62UT	
HP Master Keyed Cable Lock 10mm	T1A63AA	obsolete
HP Master Keyed Cable Lock 10mm	T1A63UT	
HP Sure Key Cable Lock	6UW42UT	

Docking and Port Replicators

Docking Stations

HP Thunderbolt Dock G2 with Combo Cable	3TR87AA ★	
HP Thunderbolt Dock 230W G2	2UK38AA	
HP Thunderbolt Dock G2 with Combo Cable	3TR87ET	
HP Thunderbolt Dock G2 with Combo Cable	3TR87UT	

HP USB-C Dock G5	26D32AA	
HP USB-C Dock G5	5TW10AA	
HP USB-C Dock G5	5TW10ET	
HP USB-C Dock G5	5TW10UT	
HP USB-C Mini Dock	1PM64AA	
HP USB-C Mini Dock	1PM64UT	
HP USB-C Travel Hub G2	7PJ38AA	obsolete
HP USB-C Travel Hub G2	7PJ38UT	
HP USB-C/A Universal Dock G2	5TW13AA	
HP USB-C/A Universal Dock G2	5TW13ET	
HP USB-C/A Universal Dock G2	5TW13UT	

Docking Accessories

HP Thunderbolt Dock Audio Module	3AQ21AA	
HP Thunderbolt Dock Audio Module	3AQ21UT	

Cases and Covers

Cases

HP 17.3 Business Slim Top Load	2UW02AA ★	obsolete
HP Executive 17.3 Top Load	6KD08AA	
HP Executive 17.3 Top Load	6KD08UT	

Backpacks

HP Executive 17.3 Backpack	6KD05AA ★	
HP Executive 17.3 Backpack	6KD05UT	

Memory

DDR4 Memory

HP 16 GB 2666 MHz DDR4 ECC	4UY12AA	
HP 16 GB 2666 MHz DDR4 ECC	4UY12UT	
HP 16 GB 2666 MHz DDR4 Memory	4VN07AA	obsolete
HP 8 GB 2666 MHz DDR4 Memory	4VN06AA	obsolete

DDR Memory

HP 16 GB 3200MHz DDR4 Memory	286J1AA	
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HP 16 GB 3200MHz DDR4 Memory

286J1UT

HP 4 GB 3200MHz DDR4 Memory

286H5AA

HP 4 GB 3200MHz DDR4 Memory

286H5UT

HP 8 GB 3200MHz DDR4 Memory

286H8AA

HP 8 GB 3200MHz DDR4 Memory

286H8UT

PC Drives and Storage

PC Solid State Drives

HP 1TB TLC PCIe 3x4 NVMe M.2 Solid State Drive

6SK99AA

HP 1TB TLC PCIe 3x4 NVMe M.2 Solid State Drive

6SK99UT

HP 256 GB PCI-e 3x4 NVMe M2 Solid State Drive

1D0H6AA

HP 256 GB TLC PCI-e 3x4 NVMe M.2 SSD

1D0H6UT

HP 512 GB PCI-e 3x4 NVMe M2 Solid State Drive

1D0H7AA

HP 512 GB PCI-e 3x4 NVMe M2 Solid State Drive

1D0H7UT

PC DVD Drives

HP External USB DVDRW Drive

F2B56AA

HP External USB DVDRW Drive

F2B56ET

HP External USB DVDRW Drive

F2B56UT

HP USB External DVD-RW Writer

Y3T76AA

Point of Sales System Options

POS Display Accessories

HP Engage One 10.1-inch Display

1XD80A7

HP Engage One 10.1-inch Display

1XD80AA

HP Engage One 10.1-inch Display

1XD81A7

HP Engage One 10.1-inch Touch Display

1XD81AA

HP Engage One W 10.1-inch Display

3FH66A7

HP Engage One W 10.1-inch Display

3FH66A8

HP Engage One W 10.1-inch Display

3FH66AA

HP Engage One W 10.1-inch Touch Display

3FH67A7

HP Engage One W 10.1-inch Touch Display

3FH67A8

HP Engage One W 10.1-inch Touch Display

3FH67AA

HP L5010ta

2KY27AA

Cables/Cable Kits/Cable Adapters

Audio and Video Cables

HP HDMI to DVI Adapter	F5A28AA
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Cable Adapters

HP Thunderbolt 230W G2 Cable	3XB95AA
HP Thunderbolt Dock G2 Combo Cable	3XB96AA
HP Thunderbolt Dock G2 Combo Cable	3XB96UT
HP USB-C to DP Adapter	N9K78AA
HP USB-C to DP Adapter	N9K78UT
HP USB-C to USB 3.0 Adapter	N2Z63AA
HP USB-C to USB 3.0 Adapter	N2Z63UT
HP USB-C to USB-A Hub	Z6A00AA
HP USB-C to USB-A Hub	Z6A00UT
HP USB-C to VGA Adapter	N9K76AA
HP USB-C to VGA Adapter	N9K76UT
HP USB-C to VGA Display Adapter	P7Z54AA

Cables and Cable Kits

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

Graphics Connectors/Adapters

HP HDMI to VGA Adapter	H4F02AA
HP HDMI to VGA Adapter	H4F02ET
HP HDMI to VGA Adapter	H4F02UT

Audio/Multimedia and Communication Devices

Headsets

HP Stereo 3.5mm Headset	T1A66AA
HP Stereo USB Headset	T1A67AA

Network Adapters

Wireless LAN

HP XMM™ 7360 LTE-Advance WWAN

3FB01AA

obsolete

HP XMM™ 7360 LTE-Advance WWAN

3FB01UT

Monitors

Business Monitors

★ : Recommended

Z Displays

HP Z32 31.5-inch 4K UHD Display	1AA81A4 ★
HP DreamColor Z27x G2 Studio Display	2NJ08A4
HP DreamColor Z31x Studio Display	Z4Y82A4
HP DreamColor Z31x Studio Display	Z4Y82AT
HP Z24f G3 FHD Display	3G828AA
HP Z24n G3 WUXGA Display	1C4Z5AA
HP Z24u G3 WUXGA USB-C Display	1C4Z6AA
HP Z25xs G3 QHD USB-C DreamColor Display	1A9C9AA
HP Z27k G3 4K USB-C Display	1B9T0AA
HP Z27q G3 QHD Display	1C4Z7AA
HP Z27u G3 QHD Display	1B9X2AA
HP Z27xs G3 4K USB-C DreamColor Display	1A9M8AA
HP Z32 31.5-inch 4K UHD Display	1AA81A7
HP Z32 31.5-inch 4K UHD Display	1AA81A8
HP Z38c 37.5-inch Curved Display	Z4W65A4
HP Z38c 37.5-inch Curved Display	Z4W65A8
HP Z38c 37.5-inch Curved Display	Z4W65AT
HP Z43 42.5-inch 4K UHD Display	1AA85A4
HP Z43 42.5-inch 4K UHD Display	1AA85A8

E-Series

HP E14 G4 Portable Monitor	1B065AA
HP E22 G4 FHD Monitor	9VH72AA
HP E23 G4 FHD Monitor	9VF96AA
HP E24 G4 FHD Monitor	9VF99AA
HP E24 G4 FHD No Stand(Bulk2) Monitor	3R473AA
HP E24d G4 FHD USB-C Docking Monitor	6PA50A8
HP E24d G4 FHD USB-C Docking Monitor	6PA50AT
HP E24i G4 WUXGA Monitor	9VJ40AA
HP E24mv G4 FHD Conferencing Monitor	169L0AA
HP E24q G4 QHD Monitor	9VG12AA

HP E24t G4 FHD Touch Monitor	9VH85AA
HP E24u G4 FHD USB-C Monitor	189T0AA
HP E27 G4 FHD Monitor	9VG71AA
HP E27d G4 QHD USB-C Docking Monitor	6PA56A8
HP E27q G4 QHD Monitor	9VG82AA
HP E27u G4 QHD USB-C Monitor	189T3AA

EliteDisplays

HP EliteDisplay E233 23-inch Monitor	1FH46A7
HP EliteDisplay E233 23-inch Monitor	1FH46AA
HP EliteDisplay E243 23.8-inch Monitor	1FH47AA
HP EliteDisplay E243d 23.8-inch Docking Monitor	1TJ76A8
HP EliteDisplay E243d 23.8-inch Docking Monitor	1TJ76AA
HP EliteDisplay E243d 23.8-inch Docking Monitor	1TJ76AT
HP EliteDisplay E243d 23.8-inch Docking Monitor	1TJ76U9
HP EliteDisplay E243d 23.8-inch Docking Monitor	7MP20AA
HP EliteDisplay E243m 23.8-inch Monitor	1FH48A7
HP EliteDisplay E243m 23.8-inch Monitor	1FH48A8
HP EliteDisplay E243m 23.8-inch Monitor	1FH48AA
HP EliteDisplay E243m 23.8-inch Monitor	1FH48AS
HP EliteDisplay E243m 23.8-inch Monitor	1FH48AT
HP EliteDisplay E243m 23.8-inch Monitor Head Only	1FH48U9
HP EliteDisplay E273m 27-inch Monitor	1FH51A7
HP EliteDisplay E273m 27-inch Monitor	1FH51A8
HP EliteDisplay E273m 27-inch Monitor	1FH51AA
HP EliteDisplay E273m 27-inch Monitor	1FH51AS
HP EliteDisplay E273m 27-inch Monitor	1FH51AT
HP EliteDisplay E273m 27-inch Monitor Head Only	1FH51U9
HP EliteDisplay S340c 34-inch Curved Monitor	V4G46AA

Healthcare Edition Displays

HP Healthcare Edition HC241 Clinical Review Monitor	3ME68AA
HP Healthcare Edition HC241p Clinical Review Monitor	3ME69AA

ProDisplays

HP Mini-in-One 24 Display	7AX23AA
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HP Mini-in-One 24 Display

7AX23AT

HP Mini-in-One 24 Display

7AX23U9

P-Series

HP P19v G4 Monitor

9TY84AA

HP P21v G4 Monitor

9TY72AA

HP P22 G4 22 FHD Monitor

1A7E4AA

HP P22h G4 FHD Monitor

7UZ36A7

HP P22h G4 FHD Monitor

7UZ36AA

HP P22h G4 FHD Monitor

7UZ36AT

HP P22v G4 Monitor

9TT53AA

HP P24 G4 24 FHD Monitor

1A7E5AA

HP P24h G4 FHD Monitor

7VH44AA

HP P24h G4 FHD Monitor

7VH44AT

HP P24q G4 QHD Height Adjust Monitor

8MB10AA

HP P24v G4 Monitor

9TT78AA

HP P27h G4 FHD Monitor

7VH95AA

HP P27h G4 FHD Monitor

7VH95AT

HP P27q G4 QHD Height Adjust Monitor

8MB11AA

HP P27v G4 Monitor

9TT20AA

Business LCD Monitors

HP P204v 19.5-inch Monitor

5RD66A7

HP P204v 19.5-inch Monitor

5RD66AA

Value Displays

HP V22b Monitor

2XM33AA

HP V24b Monitor

2XM34AA

Workstation Solutions

★ : Recommended

Workstation Solutions

Data Science Workstation Solution	DATASCIENCE
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