



HP ZBook Studio 15.6 G8 Mobile Workstation (314H8EA)



Overview

Power to free the creative mind

From keyboard to screen, every aspect of our ZBook Studio is designed for performance workflows. Render or visualize in real time, collaborate remotely, and even game from anywhere. With all this power engineered into such a small package, finally, there's one device for everything you do.

Power-packed for the work you do

With NVIDIA® graphics and Intel® Core™ processors you can animate in seconds and render or visualize in real time. Plus, with ZCentral Remote Boost you can share this power with teammates when they need a boost.[2]

A work laptop you'll want to game on

Go ahead—work and game on the same laptop with the performance of Z and the power of NVIDIA® graphics. Whether you're rendering in 3D or trying out the latest title, now nothing will slow you down.

Thin, light and designed to perform anywhere

At less than 4lbs,[5] with long-lasting battery life and built-in noise suppression, this sleek PC is designed so you can work and game from anywhere. Need to stay in the zone? Speakers custom tuned by Bang and Olufsen surround you in rich audio.

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™ i9 processor

Get high-end performance for intensive tasks like rendering and video editing with the Intel® Core™ i9 processor.^[1]

15.6" (39.6 cm) Diagonal FHD Display

Get clear and sharp visuals in full high definition. Comfortably work without reflections on an anti-glare screen.

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.^[3]

HP Fast Charge

Ultra-fast recharge takes you from zero to 50% charge in just 30 minutes.^[4]

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.

[2] HP ZCentral Remote Boost does not come preinstalled on Z Workstations but can be downloaded and run on all Z desktop and laptops without license purchase. With non-Z sender devices, purchase of perpetual individual license or perpetual floating license per simultaneously executing versions and purchase of ZCentral Remote Boost Software Support is required. ZCentral Remote Boost requires Windows 10, RHEL/CentOS (7 or 8), UBUNTU 18.04 or 20.04 LTS, or HP ThinPro 7.1 operating systems. MacOS (10.13, 10.14, 10.15) operating system is only supported on the receiver side. Requires network access. The software is available for download at hp.com/ZCentralRemoteBoost.

[5] Starting at weight. Weight will vary with configuration.

[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.

[3] 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.

[4] Recharges the battery up to 50% within 30 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.

Specifications

Operating system	Windows 10 Pro 64
Processor family	11th Generation Intel® Core™ i9 processor
Processor	Intel® Core™ i9-11950H (2.6 GHz base frequency, up to 5.0 GHz with Intel® Turbo Boost Technology, 24 MB L3 cache, 8 cores, 16 threads)
Memory	32 GB DDR4-3200 MHz RAM (onboard)
Internal Storage	1 TB PCIe® NVMe™ SSD
Memory card device	1 SD 7.0 media card reader
Optical drive	Not included
Graphics	Integrated
Graphics (integrated)	Intel® UHD Graphics
Display	39.6 cm (15.6") diagonal, FHD (1920 x 1080), IPS, anti-glare, 400 nits, low power, 72% NTSC
Display	15.6" diagonal, FHD (1920 x 1080), IPS, narrow bezel, anti-glare, 400 nits, low power, 100% sRGB ^[7,15,16,25,27,29]
Display size (diagonal)	39.6 cm (15.6")
Audio	Audio by Bang & Olufsen, stereo speakers (2 tweeters & 2 woofers), HP World Facing Microphone dual array digital microphones, functions keys for volume up and down, combo microphone/headphone jack, HD audio with 150Hz Bass Roll off
Minimum dimensions (W x D x H)	35.4 x 23.46 x 1.79 cm (non-touch); 35.4 x 23.46 x 1.75 cm (touch)
Weight	Starting at 1.79 kg (Weight varies by configuration and components.)
Keyboard	HP Premium Quiet Keyboard – spill-resistant, full-size, backlit keyboard with drain and DuraKeys
Pointing device	Clickpad with image sensor and glass surface supporting multi-touch gestures and taps
Camera	720p HD IR camera
Ports	1 headphone/microphone combo; 1 SuperSpeed USB Type-A 5Gbps signaling rate (charging); 1 nano security lock slot ^[12,13] (Mini Displayport and HDMI restrictions to Graphics cards are noted in Footnote54 and Footnote56)
Ports	1 power connector; 1 Mini DisplayPort™ 1.4; 2 Thunderbolt™ 4 with USB4™ Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4, HP Sleep and Charge); 1 HDMI 2.1
Wireless	Intel® Wi-Fi 6 AX201 (2x2) and Bluetooth® 5 combo
Power	150 W Slim Smart external AC power adapter ^[48]
Battery type	HP Long Life 6-cell, 83 Wh Li-ion polymer
Battery recharge time	Supports battery HP fast charge: approximately 50% in 30 minutes
Sustainable impact specifications	Low halogen

Security management

Absolute persistence module; HP Device Access Manager; HP Power On Authentication; Trusted Platform Module TPM 2.0 Embedded Security Chip; Master Boot Record security; Pre-boot authentication; HP Sure Click; Windows Defender; HP Secure Erase; HP Manageability Integration Kit; HP Sure Sense; HP BIOSphere Gen6; HP Sure Start Gen6; HP Sure Admin; HP Image Assistant; MS Bitlocker Encryption; Nano Security Lock Slot; HP Sure Recover Gen4; HP Sure Run Gen4; HP Client Security Manager Gen7; HP Sure Recover Gen4 with Embedded Reimaging^[34,35,36,37,38,39,40,41,42,43,49]

Software included

Bing search for IE11; Buy Office; HP Hotkey Support; HP Noise Cancellation Software; HP Performance Advisor; HP Support Assistant; Native Miracast support; HP Connection Optimizer; HP Privacy Settings; HP QuickDrop; Data Science Stack; HP Easy Clean; HP PC Hardware Diagnostics; HP ZCentral Remote Boost 2020 Software for Z workstation; Tile™ Application; Windows 10 Cloud Recovery Client; 1-month Adobe® free trial offer^[30,33,51,55,57,58]

Manufacturer Warranty

3 year (3/3/0) limited warranty includes 3 years of parts and labor. No on-site repair. Terms and conditions vary by country. Certain restrictions and exclusions apply.

Additional specifications

Additional information on the product category	For the latest information, please visit our Web site at http://www.hp.com/workstations
Available software	HP Smart Support
Battery brand	HP
Battery capacity	83
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)	720p
Camera resolution standard	HD
Color gamut	72% NTSC
Datasheet photo 1	AHID/d4031ee00e7ea4f85d23506a7089e01f4c76ed02
Datasheet photo 2	Publication logos/HP_Care_Pack_RGB_blue_NT.jpg
Datasheet photo 3	AHID/5b1bd89f8d7f5ce5844135f36861398dd7f6cc7b
Datasheet photo 4	AHID/1505c3457da8641bcf303ac8fa00a5e7c15f75eb
Datasheet photo 5	AHID/79b0c9e2fd3e6217a00efcf9cddb0739eff3e999
Display	15.6" diagonal FHD display
Display	39.6 cm (15.6") diagonal FHD display
Display brightness	400
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)	15.6
Display size (diagonal, metric)	39.6
Display size (diagonal, metric) uom	cm
Display surface treatment	anti-glare
External I/O ports footnote number	[54,56]

Fingerprint reader	Fingerprint Sensor
Graphic card footnote number	[12,13,18,21,22,23,50,52]
Graphics	Discrete
Graphics (discrete)	NVIDIA RTX™ A2000 (4 GB GDDR6 dedicated)
Graphics card brand	NVIDIA®
Graphics card memory size	4
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 name	HP Premium Quiet Keyboard
Keyboard size	Full-size
Legal tagline	HP recommends Windows 10 Pro for business
MDA key selling point	Windows 10 Pro or other operating systems available
Memory and storage	32 GB memory; 1 TB SSD storage
Memory layout (slots & size)	onboard
Memory module type	DIMM
Memory size	32
Memory size uom	GB
Memory speed	3200
Memory speed uom	MHz
Memory type	DDR4
Processor Brand	Intel®
Processor base frequency	2.6
Processor base frequency uom	GHz
Processor cache	24 MB L3
Processor core	8
Processor family	Core™ i9
Processor frequency technology	Intel® Turbo Boost Technology
Processor generation	11th Generation
Processor maximum frequency	5.0
Processor maximum frequency uom	GHz
Processor model	11950H

Processor threads	16
Product long name specifications	HP ZBook Studio 15.6 G8 Mobile Workstation, 15.6", Windows 10 Pro 64, Intel® Core™ i9, 32GB RAM, 1TB SSD, FHD
Sales office and telephone number	Albania: +49 89 9396 1803; Algeria: +213 (0) 61 68 23 00; Austria: +43 (0) 810 00 60 80; Bahrain: 800 171; Belgium: +32 (02) 729 71 11; Bulgaria: +359 2 969 87; Bosnia-Herzegovina: +49 89 9396 1803; Commonwealth of Independent States (CIS): +(095) 923 50 01; Croatia: +385 1 606 02 00; Czech Republic: +420 261 108 108; Denmark: +45 48 12 10 00; HP East Africa, Authorized Consultant: +254 20 27 16 111 ; Egypt: HP +202 792 5070 ; Estonia: +372 6 813 820; Finland: HP Myyntipalvelu 010 217 2700; France: +33 (0) 826 800 400; Germany: +49 (0) 180 532 62 22; Greece: +30 801 11 22 55 47; Hungary: +36 (1) 382 11 11; Iceland: +354 (1) 67 10 00; Ireland: +353 1 615 82 00; Israel: +972 9 830 48 48; Italy: Prodotti +39 02 92607 330, Servizio HP Care Pack: +39 02 9212 2040; Kazakhstan & Kyrgyzstan: +7 327 2 58 43 43; Latvia: +371 703 07 00; Lithuania: +370 5 2103 300; Luxembourg : (+352) 263 160 34 Macedonia: +49 89 9396 1803; Malta: +49 89 9396 1803; Middle East (Within UAE Toll Free): 800 45 20; Moldova: +49 89 9396 1803; Morocco (African Region): Call Centre +212 22 40 47 47, HP Sale Office +212 22 97 37 37/+212 22 43 64 00; Netherlands: 0800 266 7272; Nigeria: + 234 13 205 241/3; Norway: +47 24 09 70 00; Poland: 0 801 522 622 and/or 00 48 22 565 77 00 (calls are charged at national rates); Portugal: +351 808 200 808 (end user welcome desk for commercial products) ; Romania: +40 (21) 303 83 00; Saudi Arabia: (Toll free) 800 897 14 33, Office Number: +96612731200; Serbia and Montenegro: +381 11 201 99 00; Slovakia: 0800 147 147; Slovenia: +386 1 230 74 20; Spain: +34 (91) 631 16 00; Sweden: +46 200 27 00 00; Switzerland: Pre-sales/product information +41 (0) 848 88 44 66, Spare parts, manuals +41 (0) 848 84 74 64; Tunisia: +216 1 89 12 22; Turkey: +90 (212) 444 79 79; UAE (Toll Free): 800 45 20; UAE (Toll Free): 800 45 20 or 800 49 10; Ukraine: +380 44 490 61 20 ; United Kingdom: HP Teleweb Glasgow +44 (0) 845 270 40 00
Standard memory note	Transfer rates up to 3200 MT/s.
Storage capacity 01	1
Storage capacity uom 01	TB
Storage interface 01	PCIe®
Storage interface protocol 01	NVMe™
Storage type	SSD
Storage type 01	SSD
Wireless Model	Wi-Fi 6 AX201
Wireless antenna	2x2
Wireless standard	Wi-Fi 6
Wireless supplier	Intel®

[7] Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration. See <http://www.intel.com/technology/turboboost/> for more information.

[12] HDMI 2.0 works with Discrete Graphics and Intel(r) Iris Xe Graphics. Note: For Nvidia Discreate Gfx, it can support HDMI 2.1 except GPU of QN20-P1 SKU(HDMI2.0 support).

[13] HDMI 2.0 connector is provided with Intel® UHD Graphics and/or NVIDIA Quadro T1000 or T2000 configurations; miniDP 1.4 connector is provided with NVIDIA Quadro RTX 3000 or higher configurations

[15] UHD content required to view UHD images.

[16] HD content required to view HD images.

[25] HP Sure View is optional and must be configured at purchase. It operates in landscape orientation.

[27] Display options may be limited to specific CPU / GPU Configurations.

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

[30] HP ZCentral Remote Boost does not come preinstalled on Z Workstations but can be downloaded and run on all Z desktop and laptops without license purchase. With non-Z sender devices, purchase of perpetual individual license or perpetual floating license per simultaneously executing versions and purchase of ZCentral Remote Boost Software Support is required. ZCentral Remote Boost requires Windows 10, RHEL/CentOS (7 or 8), UBUNTU 18.04 or 20.04 LTS, or HP ThinPro 7.1 operating systems. MacOS (10.13, 10.14, 10.15) operating system is only supported on the receiver side. Requires network access. The software is available for download at hp.com/ZCentralRemoteBoost.

[33] HP Connection Optimizer requires Windows 10.

[34] HP BIOSphere Gen6 requires Windows 10 and is available on select HP Pro and Elite PCs. Features may vary depending on the platform and configurations

[35] 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.

[36] HP Sure Run Gen4 is available on select HP PCs and requires Windows 10.

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

[38] Security lock slot is Lock sold separately.

[39] HP Client Security Manager Gen7 requires Windows and is available on the select HP Elite and Pro PCs.

[40] HP Sure Recover Gen4 is available on select HP PCs and requires Windows 10 and an open network connection. You must back up important files, data, photos, videos, etc. before using HP Sure Recover to avoid loss of data. Network based recovery using Wi-Fi is only available on PCs with Intel Wi-Fi Module.

[41] HP Sure Recover Gen4 with Embedded Reimaging is an optional feature which requires Windows 10 must be configured at purchase. You must back up important files, data, photos, videos, etc. before use to avoid loss of data. Network based recovery using Wi-Fi is only available on PCs with Intel Wi-Fi Module.

[42] HP Sure Click requires Windows 10. See https://bit.ly/2PrLT6A_SureClick for complete details

[43] HP Sure Start Gen6 is available on select HP PCs and requires Windows 10.

[48] 150W Power Adapter is not available with Nvidia RTX™ A3000 or higher configurations

[49] HP Sure Admin requires Windows 10, HP BIOS, HP Manageability Integration Kit from <http://www.hp.com/go/clientmanagement> and HP Sure Admin Local Access Authenticator smartphone app from the Android or Apple store.

[51] HP Easy Clean requires Windows 10 RS3 and will disable the keyboard, touchscreen, and clickpad only. Ports are not disabled. See user guide for clean.

[55] HP Quick Drop requires Internet access and Windows 10 PC preinstalled with HP QuickDrop app and either an Android device (phone or tablet) running Android 7 or higher with the Android HP QuickDrop app, and /or an iOS device (phone or tablet) running iOS 12 or higher with the iOS HP QuickDrop app.

[57] Tile requires Windows 10. Some features require optional subscription to Tile Premium. Ring feature not available on HP Elite G8 Laptops. Tile application for Windows 10 available for download from the Windows Store. Mobile phone app available for download from App Store and Google Play. Requires iOS 11 and greater

or Android 6.0 and greater see <https://support.thetileapp.com/hc/en-us/articles/200424778> for more information. HP Tile will function as long as the PC has battery power.

[58] Offer available worldwide (excluding China and embargoed countries or other countries identified as restricted by applicable law or regulation) to new and existing subscribers who are 18+. Click on the Adobe icon in the start menu to redeem a 1-month free trial membership for select Adobe software. The software is tied to the device and is not transferrable. If you would like to sign up for an auto-renewing subscription, you can provide your payment method at sign-up. By adding a payment method, your subscription will automatically renew at the then current rate on your renewal date until you cancel. If you cancel before the end of the one-month free trial, you won't be charged. You can cancel your subscription anytime via your Adobe Account page or by contacting Customer Support. Please see current prices for Adobe Spark and the remaining Adobe products available in this offer. Offer not available to Education, OEM, or volume licensing customers. Subject to availability where the recipient resides. Additional terms and conditions may apply. VOID WHERE PROHIBITED OR RESTRICTED BY LAW.

Accessories

Batteries/Chargers/Adapters

★ : Recommended

AC Adapters

HP 150W Slim Smart AC Adapter (4.5mm)	4SC18AA ★
HP 200W Slim Smart AC Adapter (4.5mm)	4SC19AA

Connectivity Adapters

HP 4.5 mm and USB-C Dock Adapter G2	6LX61AA
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Power Packs

HP USB-C Essential Power Bank	3TB55AA	obsolete
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Cases and Covers

Cases

HP Renew Business 15.6-inch Laptop Bag	3E5F8AA ★
HP Executive 15.6 Top Load	6KD06AA ★
HP 15.6 Business Top Load	2SC66A6
HP 15.6 Business Top Load	2SC66AA
HP 15.6 Business Top Load	2SC66ET
HP 17.3 Business Slim Top Load	2UW02A6
HP 17.3 Business Slim Top Load	2UW02AA
HP All in One Carry On Luggage	7ZE80AA
HP Executive 15.6 Leather Top Load	6KD09AA
HP Executive 17.3 Top Load	6KD08AA
HP Prelude 15.6-inch Laptop Bag	2Z8P4AA
HP Prelude Pro Recycled Top Load	1X645A6
HP Prelude Pro Recycled Top Load	1X645AA
HP Prelude Topload	1E7D7AA
HP Renew Business 15.6-inch Laptop Bag	3E5F8A6
HP Renew Business 17.3-inch Laptop Bag	3E2U6AA

Backpacks

HP Executive 15.6 Backpack	6KD07AA ★
HP 17.3 Business Backpack	2SC67A6

HP 17.3 Business Backpack	2SC67AA
HP 17.3 Business Backpack	2SC67ET
HP Executive 17.3 Backpack	6KD05AA
HP Prelude 15.6-inch Backpack	2Z8P3AA
HP Prelude Backpack 15.6	1E7D6AA
HP Prelude Pro Recycled Backpack	1X644A6
HP Prelude Pro Recycled Backpack	1X644AA
HP Renew Business 17.3-inch Laptop Backpack	3E2U5A6
HP Renew Business 17.3-inch Laptop Backpack	3E2U5AA

Docking and Port Replicators

Docking Stations

HP Thunderbolt Dock G2 with Combo Cable	3TR87AA ★
HP USB-C Dock G5	26D32AA ★
HP USB-C Dock G5	5TW10AA ★
HP Thunderbolt Dock 230W G2	2UK38AA
HP Thunderbolt Dock G2 with Combo Cable	3TR87ET
HP USB-C Dock G5	5TW10ET
HP USB-C/A Universal Dock G2	5TW13AA
HP USB-C/A Universal Dock G2	5TW13ET

Docking Accessories

HP Thunderbolt Dock Audio Module	3AQ21AA
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Port Replicators

HP USB 3.0 to Gigabit LAN Adapter	N7P47AA
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Keyboards/Mice and Input Devices

Keyboard and Mouse Kits

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

Mice

HP 635 Multi-Device Wireless Mouse	1D0K2AA ★
HP 3-button USB Laser Mouse	H4B81AA
HP 3-button USB Laser Mouse	H4B81ET
HP 935 Creator Wireless Mouse	1D0K8AA
HP Bluetooth Travel Mouse	6SP30AA
HP Comfort Grip Wireless Mouse	H2L63AA
HP Elite Presenter Mouse	2CE30AA
HP Elite Presenter Mouse	2CE30ET
HP USB Fingerprint Mouse	4TS44AA
HP USB Fingerprint Mouse	4TS44ET
HP USB Premium Mouse	1JR32AA
HP Wired Desktop 320M Mouse	9VA80AA
HP Wired Desktop 320M Mouse	9VA80ET
HP Wireless Premium Mouse	1JR31AA
HP X4000b Bluetooth Mouse	H3T50AA
USB Travel Mouse	G1K28AA
USB Travel Mouse	G1K28ET

Keyboards

HP Wireless (Link-5) Keyboard	T6U20AA
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PC Drives and Storage

PC Solid State Drives

HP 1TB TLC PCIe 3x4 NVMe M.2 Solid State Drive	6SK99AA
HP 256 GB PCI-e 3x4 NVMe M2 Solid State Drive	1D0H6AA
HP 2TB TLC PCIe 3x4 NVMe M.2 Solid State Drive	6SL00AA
HP 512 GB PCI-e 3x4 NVMe M2 Solid State Drive	1D0H7AA

PC DVD Drives

HP External USB DVDRW Drive	F2B56AA
HP External USB DVDRW Drive	F2B56ET
HP USB External DVD-RW Writer	Y3T76AA

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
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HP Thunderbolt Dock G2 Combo Cable	3XB96AA
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HP USB Type-C to RJ45 Adapter	V8Y76AA
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HP USB-C to RJ45 Adapter	V7W66AA
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HP USB-C to USB 3.0 Adapter	N2Z63AA
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HP USB-C to USB-A Hub	Z6A00AA
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HP USB-C to VGA Adapter	N9K76AA
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HP USB-C to VGA Display Adapter	P7Z54AA
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Graphics Cards

Graphics Connectors/Adapters

HP HDMI to VGA Adapter	H4F02AA
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HP HDMI to VGA Adapter	H4F02ET
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Security and Protection

PC Locks

HP Nano Keyed Cable Lock	1AJ39AA
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HP Nano Master Keyed Cable Lock	1AJ40AA
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HP Sure Key Cable Lock	6UW42AA
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Audio/Multimedia and Communication Devices

Phones

HP UC Speaker Phone	4VW02AA
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Expansion Solution and Controller Cards

Port Adapters

HP USB-C to 4.5 mm Adapter	4ST73AA
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