



HP OmniBook X Laptop Next Gen AI 17-dd0013dx (B5UH5UA)



Overview

Designed and tested for durable reliability.

Backed by rigorous military-grade standard testing[1], the HP OmniBook X 17.3 Next Gen AI PC with its large 17.3" touch display[5] and modernized back-lit keyboard, is the perfect blend of high style and high performance. Equipped with the latest AI-powered Intel® Core™ Ultra Processor[2], to fuel creativity and AI personalized efficiency.



Engineered for above and beyond reliability

Designed to withstand shocks to drops to extreme temps and backed by rigorous military-grade testing[1].



Comfort wherever you create

Create in comfort with a 17.3" display[5], back-lit keyboard, and AI tools to optimize connections.



With more power, comes greater creativity

Powered by AI and the latest processor this PC has the performance necessary for intensive creations.



Built for a better tomorrow

HP OmniBook X 17.3 NGAI PCs are designed using recycled metals[3] and post-consumer recycled plastics[4].

Features



Get a fresh perspective

From a rejuvenated Start menu, to new ways to connect to your favorite people, news, games, and content—Windows 11 is the place to think, express, and create in a natural way.^[6]



FHD IPS touchscreen

Always see your content at its best with 178° wide-viewing angles and a vibrant picture. And with touchscreen technology, you can control your PC right from the screen.^[8]

Flicker-free

Using DC Dimming technology that controls brightness by adjusting direct current rather than cycling the backlight, we can eliminate screen flickering for more comfortable viewing.^[10]



Intel® Core™ Ultra Processors

Make the hard stuff easy with Intel® Core™ Ultra processors. Accelerate AI experiences across hundreds of apps.^[7]



16:9 aspect ratio

A 16:9 aspect ratio lets you see more of your content with less scrolling.^[9]



McAfee Online Protection 30-day trial

Secure your device with award winning antivirus and online protection. Free trial includes secure VPN for privacy and data protection when browsing on public Wi-Fi^[11]

[1] 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.

[2] Multi-core 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 is not a measurement of clock speed. Features and software that require a NPU may require software purchase, subscription or enablement by a software or platform provider, and third party software may have specific configuration or compatibility requirements. Potential NPU inferencing performance varies by use, configuration, and other factors.

[3] Recycled metal is expressed as a percentage of the total weight of the metal according to ISO 14021 definitions for metal parts over 25 grams.

[4] Recycled plastic is expressed as a percentage of the total weight plastic. Post-consumer recycled is based on the definition set in the EPEAT standard for computers, IEEE 1680.1-2018 standard.

[5] Display measured diagonally.

[6] 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 is automatically updated and enabled. High speed internet and Microsoft account required. ISP fees may apply and additional requirements may apply over time for updates. See <http://www.windows.com>.

[7] Multi-core 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 is not a measurement of higher performance. Features and software that require a NPU may require software purchase, subscription or enablement by a software or platform provider, and third party software may have specific configuration or compatibility requirements. Potential NPU inferencing performance varies by use, configuration, and other factors.

[8] Full high-definition (FHD) content is required to view FHD images.

[9] All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

[10] The flicker-free capability eliminates screen flickering through integrating DC-dimming LED backlights.

[11] Internet access required and not included. McAfee is pre-installed on your PC and an account is required for activation. Subscription renewal required after trial period. VPN feature is not available in India, China, Syria or North Korea. McAfee is not compatible with Windows 11 in S mode. You'll need to permanently switch out of S mode. There's no charge to switch out of S mode, but you won't be able to turn it back on.

Specifications

Operating system	Windows 11 Home
Product color	Glacier silver aluminum
Processor family	Intel® Core™ Ultra 7 processor
Processor	Intel® Core™ Ultra 7 256V (up to 4.8 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 8 cores, 8 threads) ^[6,7]
Chipset	Intel® integrated SoC
Memory	16 GB LPDDR5x-8533 MT/s (onboard)
Internal Storage	1 TB PCIe® Gen4 NVMe™ M.2 SSD
Product design	Sandblasted anodized finish
Graphics	Integrated
Graphics (integrated)	Intel® Arc™ 140V GPU (8GB)
Display	43.9 cm (17.3") diagonal, FHD (1920 x 1080), multitouch-enabled, IPS, edge-to-edge glass, micro-edge, 400 nits, 100% sRGB
Display	17.3" diagonal, FHD (1920 x 1080), multitouch-enabled, IPS, edge-to-edge glass, micro-edge, 400 nits, 100% sRGB
Display size (diagonal)	43.9 cm (17.3")
Display size (diagonal)	17.3"
Audio	DTS:X® Ultra; Dual speakers; HP Audio Boost; Poly Studio
Dimensions (W x D x H)	39.6 x 25.86 x 1.53 cm
Dimensions (W x D x H)	15.59 x 10.18 x 0.60 in
Weight	2.45 kg
Weight	5.41 lb
Keyboard	Full-size, backlit, soft gray keyboard with numeric keypad
Pointing device	HP Imagepad
Camera	5MP IR camera with temporal noise reduction and integrated dual array digital microphones
Ports	3 USB Type-A 10Gbps signaling rate; 1 HDMI 2.1; 1 headphone/microphone combo; 1 Thunderbolt™ 4 with USB Type-C® 40Gbps signaling rate (USB Power Delivery 3.1, DisplayPort™ 2.1, HP Sleep and Charge); 1 USB Type-C® 10Gbps signaling rate (USB Power Delivery 3.1, DisplayPort™ 1.4a, HP Sleep and Charge) ^[19]
Package dimensions (W x D x H)	8 x 46.1 x 30.3 cm
Package weight	3.62 kg
Wireless	Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card ^[11,12,46]
Power supply type	65 W USB Type-C® power adapter

Battery type	6-cell, 83 Wh Li-ion polymer (<i>[23]</i>)
Battery recharge time	Supports battery fast charge: approximately 50% in 45 minutes ^[5]
Energy star certified	ENERGY STAR® certified
Sustainable impact specifications	Ocean-bound plastic in speaker enclosure(s) and bezel; Keyboard keycaps and scissors contain post-consumer recycled plastic; Recycled metal in cover, keyboard frame and keyboard bracket
Security management	Mic mute key; Camera privacy shutter; Trusted Platform Module (Firmware TPM) support
Software included	McAfee Online Protection 30-day trial
Software - Productivity & finance	1 month trial for new Microsoft 365 customers ^[24]
Cloud service	100 GB Dropbox storage for 3 months ^[1]
UPC number	198990145396

Additional specifications

Aspect ratio	16:9
Automation feature photo 01	https://hp.widen.net/content/xsopywdmlu/original/xsopywdmlu.png
Battery capacity	83
Battery capacity uom	Wh
Battery cells number	6
Battery type	Li-ion polymer
Bluetooth version	Bluetooth® 5.3
Brightness	400 nits
Camera Infrared	IR
Camera microphone	integrated dual array digital microphones
Camera resolution	5
Camera resolution uom	MP
Color	Glacier silver
Color gamut	100% sRGB
Datasheet feature photo 06	https://hp.widen.net/content/9s0gsi6mmi/original/9s0gsi6mmi.png
Display	17.3" diagonal FHD touch display
Display	43.9 cm (17.3") diagonal FHD touch display
Display bezel	Micro-edge
Display brightness	400
Display brightness uom	nits
Display design	Edge-to-edge glass
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 touchscreen type	Touch screen
Ecolabels	EPEAT® Gold with Climate+
Flicker-free	Yes ^[45]
HDMI out – version	2.1

HDMI –out	1
Headphone/microphone combo	1
Keyboard backlight	Backlit
Keyboard color	Soft gray
Keyboard keypad	Numeric keypad
Keyboard size	Full-size
Memory and storage	16 GB memory;1 TB SSD storage
Memory layout (slots & size)	onboard
Memory size	16
Memory size uom	GB
Memory speed	8533
Memory speed uom	MT/s
Memory type	LPDDR5x
Neural Processing Unit	Intel® AI Boost (47 NPU TOPS)
Number of User-accessible Memory Slots	0
Package depth, imperial (most common size)	18.14
Package depth, metric (most common size)	46.1
Package height, imperial (most common size)	11.92
Package height, metric (most common size)	30.3
Package weight	8 lb
Package width, imperial (most common size)	3.14
Package width, metric (most common size)	8
Packaging unit of measure (imperial)	in
Packaging unit of measure (metric)	cm
Playbook TS icon 1	https://assetmanager.hp.com/assets/share/asset/fl7epibsdn
Playbook TS icon 8	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c03905827.png
Playbook TS icon OS	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c03905482.png
Playbook TS icon battery life	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c03905264.png
Playbook TS icon connectivity	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08201987.png
Playbook TS icon dimensions NB	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08250394.png

Playbook TS icon display NB	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08205649.png
Playbook TS icon graphics	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08169202.png
Playbook TS icon memory	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08267700.png
Playbook TS icon processor	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08201972.png
Playbook TS icon storage	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08192819.png
Playbook TS icon weight imperial	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c05790117.png
Playbook TS icon weight metric	https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08267650.png
Processor Brand	Intel®
Processor cache	12 MB L3
Processor core	8
Processor family	Core™ Ultra 7
Processor frequency technology	Intel® Turbo Boost Technology
Processor maximum frequency	4.8
Processor maximum frequency uom	GHz
Processor model	256V
Processor threads	8
Product brand name	HP
Product long name specifications	HP OmniBook X Laptop Next Gen AI 17-dd0013dx, Windows 11 Home, 17.3", Touch screen, Intel® Core™ Ultra 7, 16GB RAM, 1TB SSD, FHD, Glacier silver
Product long name specifications V2	HP OmniBook X Laptop Next Gen AI 17, Windows 11 Home, 17.3", Touch screen, Intel® Core™ Ultra 7, 16GB RAM, 1TB SSD, FHD, Glacier silver
Product short name specifications	HP OmniBook X Laptop Next Gen AI 17-dd0013dx, 17.3", Intel® Core™ Ultra 7, 16GB RAM, 1TB SSD
Screen-to-body ratio (without speakers)	86% ^[18]
Storage capacity	1
Storage capacity uom 01	TB
Storage form factor 01	M.2
Storage interface 01	PCIe® Gen 4
Storage interface protocol 01	NVMe™
Storage type	SSD
Storage type 01	SSD
Thunderbolt™ 4 ports	1
Touchscreen	Yes
UNSPSC code	43211503

USB Type-A	3
USB Type-C	1
Wireless Model	Wi-Fi 6E AX211
Wireless antenna	2x2
Wireless standard	Wi-Fi 6E
Wireless supplier	Intel®

[1] 100 GB of free Dropbox storage for 3 months from date of registration. For complete details and terms of use, including cancellation policies, visit the Dropbox website at <https://www.dropbox.com/help/space/hp-promotion>. Internet service required and not included.

[5] Recharges your battery up to 50% within 45 minutes when the system is off using “shut down” command, using HP adapter provided with the notebook or recommended power adapter disclosed in specifications (see <http://store.hp.com>). After charging has reached 50% capacity, charging speed will return to normal speed. Charging time may vary +/-10% due to System tolerance. Available on select HP products.

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

[11] Wi-Fi 6E is designed to support gigabit data rate when transferring files between two devices connected to the same router. Requires a wireless router, sold separately.

[12] Wi-Fi 6E requires a Wi-Fi 6E router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 6E is backwards compatible with prior 802.11 specs. And available in countries where 6GHz is supported.

[18] Percent of active plus nonactive viewing area to active viewing area plus border. Measure with lid vertical to the desk.

[19] For best results with HP Sleep and Charge, use a USB charging protocol standard cable or cable adapter with an external device.

[24] Must activate within 180 days of Windows activation.

[45] The Flicker-free capability is eliminating screen flickering through integrating DC-dimming LED backlights or LED emissions. OLED panel is functional with DC-DIMMING when above 100nits.

[46] Bluetooth® 5.3 operation requires Microsoft OS/Chrome OS support. Until Microsoft OS/Chrome OS support is available, Bluetooth® 5.3 will function as Bluetooth® 5.2 or lower.

Accessories for PC

Mice/Pens/Other Pointing Devices

★ : Recommended

Mouse Pads

HP 100 Sanitizable Mouse Pad	8X594AA
HP 105 Sanitizable Mouse Pad	8X595AA
HP 200 Sanitizable Desk Mat	8X596AA
HP 205 Sanitizable Desk Mat	8X597AA

Wired Mice

HP 125 Wired Mouse	265A9AT
HP 125 Wired Mouse	265A9UT
HP 125 Wired Mouse (Bulk120)	265A9A6
HP 128 LSR WRD Mouse (Bulk120)	265D9A6
HP 128 Laser Wired Mouse	265D9AA
HP 150 Wired Mouse	240J6AA
HP 320M Wired Mouse (Bulk 120)	9VA80A6
HP Wired Desktop 320M Mouse	9VA80AA
HP Wired Mouse 100	6VY96AA
HP Wired Mouse 1000	4QM14AA
HP Wired Mouse 105	822M9AA
HP Wired Mouse 105	822M9UT
HP X500 Wired Mouse	E5E76AA
USB Travel Mouse	G1K28AA

Wireless Mice

HP 150 Wireless Mouse	2S9L1AA
HP 220 Wireless Mouse	3FV66AA
HP 220 Wireless Mouse	7KX10AA
HP 220 Wireless Mouse	7KX11AA
HP 220 Wireless Mouse	7KX12AA
HP 235 Slim Wireless Mouse	4E407UT
HP 240 Black Bluetooth Mouse	3VOG9AA
HP 240 Empire Red Bluetooth Mouse	43N05AA
HP 240 Lunar White Bluetooth Mouse	793F9AA

HP 240 Pike Silver Bluetooth Mouse	43N04AA
HP 245 Bluetooth Mouse	81S67AA
HP 245 Bluetooth Mouse	81S67UT
HP 250 Dual Mouse	6V2J7AA
HP 255 Dual Wireless Mouse	8R3U1AA
HP 255 Dual Wireless Mouse	8R3U1UT
HP 280 Silent Wireless Mouse	19U64AA
HP 285 Silent Wireless Mouse	6G4E6AA
HP 410 Slim Silver Bluetooth Mouse	4M0X5AA
HP 420 Programmable Bluetooth Mouse	7M1D3AA
HP 425 Programmable Bluetooth Mouse	7M1D5AA
HP 430 Multi-Device Wireless Mouse	3B4Q2AA
HP 435 Multi-Device Wireless Mouse	3B4Q5UT
HP 480 Comfort Bluetooth Mouse	8T6M3AA
HP 510 Ultra-Fast Rechargeable Wireless Mouse	9C2F6AA
HP 515 Ultra-Fast Rechargeable Wireless Mouse	9C2F7AA
HP 635 Multi-Device Wireless Mouse	1D0K2AA
HP 685 Comfort Dual-Mode Mouse	8T6M0UT
HP 690 Rechargeable Wireless Mouse	7M1D4AA
HP 695 Rechargeable Wireless Mouse	8F1Y4AA
HP 710 Rechargeable Silent Mouse	6E6F1AA
HP 710 Rechargeable Silent Mouse	6E6F2AA
HP 715 Rechargeable Multi-Device Mouse	6E6F0AA
HP 920 Ergonomic Wireless Mouse	6H1A4AA
HP 925 Ergonomic Vertical Mouse	6H1A5AA
HP 930 Creator Wireless Mouse	1D0K9AA
HP 935 Creator Wireless Mouse	1D0K8AA
HP Wireless Mouse 200	2HU82AA
HP Wireless Mouse 200	2HU83AA
HP Wireless Mouse 200	2HU84AA
HP Wireless Mouse 200	2HU85AA
HP Wireless Mouse 200	X6W31AA
HP Wireless Mouse Z3700	4VY82AA
HP Wireless Mouse Z3700	7UH88AA
HP X3000 Black G3 Wireless Mouse	683N7AA
HP X3000 Blue G3 Wireless Mouse	683N8AA

HP X3000 G2 Wireless Mouse	28Y30AA
HP X3000 Silver G3 Wireless Mouse	683N9AA
HP Z3700 Black Wireless Mouse	26V63AA
HP Z3700 Black Wireless Mouse	V0L79AA
HP Z3700 Blue Wireless Mouse	V0L81AA
HP Z3700 Ceramic White Wireless Mouse	171D8AA
HP Z3700 Dual Black Mouse	758A8AA
HP Z3700 Dual Silver Mouse	758A9AA
HP Z3700 Gold Wireless Mouse	X7Q43AA
HP Z3700 Red Wireless Mouse	V0L82AA
HP Z3700 Silver Wireless Mouse	X7Q44AA
HP Z3700 TUP G2 Wireless Mouse	681R9AA
HP Z3700 White Wireless Mouse	V0L80AA
HP Z3700 Wireless Mouse G2 Black Onyx	681R7AA
HP Z3700 Wireless Mouse G2 Ceramic White	681S1AA
HP Z3700 Wireless Mouse G2 Dragonfly Blue	681S0AA
HP Z3700 Wireless Mouse G2 Nature Silver	66Z09AA

Keyboards/Other Input Devices

Wired Keyboards

HP 125 Wired Keyboard	266C9AA
HP 150 Wired Keyboard	664R5AA
HP 400 Backlit Wired Keyboard	7N7C0AA
HP 405 Multi-Device Backlit Wired Keyboard	7N7C1AA
HP 405 Multi-Device Backlit Wired Keyboard	7N7C1UT
HP 480 Comfort Wired Keyboard	8T6M1AA
HP 485 Comfort Wired Keyboard	8T6M2AA
HP Pavilion Wired Keyboard 300	4CE96AA
HP Wired Desktop 320K Keyboard	9SR37UT
HP Wired Desktop 320K Keyboard (Bulk12)	9SR37A6

Wired Combo

HP 150 Wired Mouse and Keyboard	240J7AA
HP 225 Wired Mouse and Keyboard Combo	286J4AA
HP Pavilion Keyboard and Mouse 200	9DF28AA

HP Pavilion Wired Keyboard and Mouse 400	4CE97AA
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HP Wired Desktop 320MK Mouse and Keyboard	9SR36AA
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HP Wired Desktop 320MK Mouse and Keyboard	9SR36UT
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Wireless Keyboards

HP 220 Wireless Keyboard	805T2AA
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HP 225 Wireless Keyboard	805T1AA
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HP 230 Wireless Keyboard	3L1E7AA
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HP 350 Compact Multi-Device Bluetooth Keyboard	692S8AA
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HP 350 Compact Multi-Device Bluetooth Keyboard	692T0AA
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HP 430 Programmable Wireless Keypad	7N7C2AA
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HP 435 Programmable Wireless Keypad	7N7C3AA
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HP 450 Programmable Wireless Keyboard	4R184AA
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HP 455 Programmable Wireless Keyboard	4R177A6
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HP 455 Programmable Wireless Keyboard	4R177AA
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HP 460 Multi-Device Bluetooth Keyboard	7N7B8AA
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HP 475 Dual-Mode Wireless Keyboard	7N7B9AA
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HP 475 Dual-Mode Wireless Keyboard	7N7B9UT
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HP 680 Comfort Dual-Mode Keyboard	8T6L8AA
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HP 720 Multi-Device Rechargeable Wireless Keyboard	9T5B1AA
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HP 725 Multi-Device Rechargeable Wireless Keyboard	9T5B2AA
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HP 960 Ergonomic Wireless Keyboard	7E755AA
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HP 965 Ergonomic Wireless Keyboard	7E756AA
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HP 970 Programmable Wireless Keyboard	3Z729AA
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HP 975 Dual-Mode Wireless Keyboard	3Z726AA
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Wireless Combo

HP 230 Wireless Mouse and Keyboard Combo	18H24AA
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HP 230 Wireless Mouse and Keyboard Combo	3L1F0AA
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HP 235 Wireless Mouse and Keyboard Combo	1Y4D0UT
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HP 330 Wireless Mouse and Keyboard Combination	2V9E6AA
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HP 650 Wireless Keyboard and Mouse Combo	4R013AA
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HP 650 Wireless Keyboard and Mouse Combo	4R016AA
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HP 655 Wireless Keyboard and Mouse Combo	4R009AA
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HP 655 Wireless Keyboard and Mouse Combo	860P8AA
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HP 655 Wireless Keyboard and Mouse Combo (Bulk 10)	4R009A6
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HP 680 Comfort Dual-Mode Keyboard and Mouse Combo	8T6L6AA
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HP 685 Comfort Dual-Mode Keyboard and Mouse Combo	8T6L7UT
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HP 720 Multi-Device Rechargeable Wireless Keyboard and Mouse Combo	9T5A9AA
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HP 725 Multi-Device Rechargeable Wireless Keyboard and Mouse Combo	9T5B0UT
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HP Wireless Keyboard and Mouse 300	3ML04AA
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Port Replicators/Dongles/Docking

Cables/Cable Adapters/Dongles

HP 240W Thunderbolt 4 Cable	BR1V3AA
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HP 240W Thunderbolt 4 Cable	BR1W8AA
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Monitors

HP Home Monitors

★ : Recommended

Series 3

HP Series 3 27 inch FHD Monitor - 327se	B7HS7AA
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HyperX Microphones

★ : Recommended

HyperX USB/XLR Microphones

HyperX FlipCast - USB/XLR Dynamic Microphone (Black)	B2CM1AA
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