



# HP ENVY x360 Convert 13-ay1016nn (5S4G4EA)



## Overview

### Limitless creation, from anywhere

Ready whenever inspiration strikes. Bring true-to-life, vibrant visuals to your screen anywhere, anytime with this versatile, convertible PC with long battery life. Simultaneously use the touch and pen input to capture every detail of your sketches and rest easy knowing your creations are under wraps until you're ready to share them.



### The power to bring your creations to life

With an AMD Processor[1] with powerful graphics, a long battery life, ample SSD storage and HP Command Center, you get performance to meet your creative needs.



### Privacy for your peace of mind

Keep it confidential with an unhackable camera shutter and dedicated microphone mute button.



### Thoughtfully designed

Ideas come to life in vibrant color with the high definition, micro-edge display[2]. The 360 degree hinge adapts so can capture every intricate sketch with precision.

## Features

### Get a fresh perspective

Windows 11 provides a calm and creative space where you can pursue your passions through a fresh experience. 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.<sup>[3]</sup>



### FHD IPS display

Enjoy crystal-clear images from any angle. With 178° wide-viewing angles and a vibrant 1920 x 1080 resolution, you'll always have a great view of your favorite content.<sup>[5]</sup>



### SuperSpeed USB Type-C® Power + Display + 10Gbps signaling rate

Plug in your external storage with this SuperSpeed USB Type-A port, featuring 5Gbps signaling data rate.<sup>[7]</sup>



### AMD Ryzen™ 7 Processor

Tap into truly impressive notebook performance. A revolutionary new architecture with amazing battery life that delivers exceptional multi-threaded processing and Vega graphics for intensive multimedia tasks.<sup>[4]</sup>



### HP Wide Vision HD Camera

The 88-degree, wide-angle field of view lets you video chat with the entire family or group of friends in crystal clear detail.<sup>[6]</sup>



### Dropbox cloud storage

Store and synchronize your content online with Dropbox. Get 25 GB of storage for one year to access, manage, and share your photos, music, and files from anywhere with Internet access.<sup>[8]</sup>

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[1] 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. AMD's numbering is not a measurement of clock speed.

[2] HD (High Definition) content required to view HD images.

[3] 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>.

[4] 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. AMD's numbering is not a measurement of clock speed.

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

[6] Features may require software or other 3rd party applications to provide the described functionality.

[7] Actual throughput may vary.

[8] 25 GB of free online storage for one year from date of registration. For complete details and terms of use, including cancellation policies, visit the website at [www.dropbox.com](http://www.dropbox.com). Internet service required and not

*included.*

## Specifications

<b>Operating system</b>	Windows 11 Home
<b>Product color</b>	Nightfall black aluminum
<b>Processor family</b>	AMD Ryzen™ 7 processor
<b>Processor</b>	AMD Ryzen™ 7 5800U (up to 4.4 GHz max boost clock, 16 MB L3 cache, 8 cores, 16 threads) <sup>[6,7]</sup>
<b>Chipset</b>	AMD Integrated SoC
<b>Memory</b>	16 GB DDR4-3200 MHz RAM (onboard)
<b>Internal Storage</b>	1 TB PCIe® NVMe™ M.2 SSD
<b>Product design</b>	Sandblasted, anodized finish
<b>Optical drive</b>	Optical drive not included
<b>Graphics</b>	Integrated
<b>Graphics (integrated)</b>	AMD Radeon™ Graphics
<b>Display</b>	33.8 cm (13.3") diagonal, FHD (1920 x 1080), multitouch-enabled, IPS, edge-to-edge glass, micro-edge, BrightView, Corning® Gorilla® Glass NBT™, 1000 nits, 72% NTSC, HP Sure View integrated privacy screen
<b>Display</b>	13.3" diagonal, FHD (1920 x 1080), multitouch-enabled, IPS, edge-to-edge glass, micro-edge, BrightView, Corning® Gorilla® Glass NBT™, 1000 nits, 72% NTSC, HP Sure View integrated privacy screen
<b>Display size (diagonal)</b>	33.8 cm (13.3")
<b>Display size (diagonal)</b>	13.3"
<b>Audio</b>	Audio by Bang & Olufsen; Dual speakers; HP Audio Boost
<b>Minimum dimensions (W x D x H)</b>	30.65 x 19.46 x 1.64 cm <i>(Dimensions vary by configuration)</i>
<b>Minimum dimensions (W x D x H)</b>	12.07 x 7.66 x 0.65 in
<b>Weight</b>	1.3 kg <i>(Weight varies by configuration)</i>
<b>Weight</b>	2.87 lb
<b>Keyboard</b>	Full-size, backlit, nightfall black keyboard
<b>Pointing device</b>	HP Imagepad with multi-touch gesture support; Precision Touchpad Support
<b>Input devices</b>	Accelerometer; Gyroscope; eCompass; IR Thermal sensor
<b>Camera</b>	HP Wide Vision 720p HD camera with camera shutter and integrated dual array digital microphones
<b>Ports</b>	1 SuperSpeed USB Type-C® 10Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4, HP Sleep and Charge); 1 SuperSpeed USB Type-A 5Gbps signaling rate (HP Sleep and Charge); 1 SuperSpeed USB Type-A 5Gbps signaling rate; 1 AC smart pin; 1 headphone/microphone combo <sup>[19]</sup>
<b>Expansion slots</b>	1 microSD media card reader

<b>Package dimensions (W x D x H)</b>	6.9 x 48.3 x 30.5 cm
<b>Package weight</b>	2.42 kg
<b>Wireless</b>	Realtek Wi-Fi 6 (2x2) and Bluetooth® 5.2 combo (Supporting Gigabit data rate)
<b>Power supply type</b>	65 W AC power adapter
<b>Battery type</b>	3-cell, 51 Wh Li-ion polymer
<b>Battery life</b>	Up to 13 hours and 45 minutes <sup>[3]</sup>
<b>Battery recharge time</b>	Supports battery fast charge: approximately 50% in 30 minutes <sup>[5]</sup>
<b>Battery weight</b>	0.46 lb
<b>Battery weight</b>	210 g
<b>Ecolabels</b>	EPEAT® registered
<b>Energy star certified</b>	ENERGY STAR® certified
<b>Security management</b>	All-in-One keyboard
<b>Software included</b>	McAfee LiveSafe™
<b>Software - Productivity &amp; finance</b>	1 month trial for new Microsoft 365 customers <sup>[24]</sup>
<b>Cloud service</b>	25 GB Dropbox storage for 12 months <sup>[1]</sup>
<b>UPC number</b>	196337612167

## Additional specifications

<b>Battery capacity</b>	51
<b>Battery capacity uom</b>	Wh
<b>Battery cells number</b>	3
<b>Battery life</b>	Long Life
<b>Battery life video playback</b>	Up to 14 hours and 45 minutes
<b>Battery type</b>	Li-ion polymer
<b>Bluetooth version</b>	Bluetooth® 5.2
<b>Brightness</b>	1000 nits
<b>Camera brand</b>	HP Wide Vision
<b>Camera microphone</b>	integrated dual array digital microphones
<b>Camera resolution (vertical)</b>	720p
<b>Camera resolution standard</b>	HD
<b>Camera security</b>	camera shutter
<b>Color</b>	Nightfall black
<b>Color gamut</b>	72% NTSC
<b>Display</b>	33.8 cm (13.3") diagonal FHD touch display
<b>Display</b>	13.3" diagonal FHD touch display
<b>Display bezel</b>	micro-edge
<b>Display brightness</b>	1000
<b>Display brightness uom</b>	nits
<b>Display design</b>	edge-to-edge glass
<b>Display glass type</b>	Corning® Gorilla® Glass NBT™
<b>Display panel technology</b>	IPS
<b>Display resolution (pixels)</b>	1920 x 1080
<b>Display resolution standard</b>	FHD
<b>Display security technology</b>	HP Sure View integrated privacy screen
<b>Display size (diagonal) uom</b>	"
<b>Display size (diagonal, imperial)</b>	13.3
<b>Display size (diagonal, metric)</b>	33.8
<b>Display size (diagonal, metric) uom</b>	cm
<b>Display surface treatment</b>	BrightView
<b>Display touchscreen type</b>	touch screen
<b>Fingerprint reader</b>	Fingerprint Reader

<b>Keyboard backlight</b>	backlit
<b>Keyboard color</b>	nightfall black
<b>Keyboard size</b>	Full-size
<b>Memory and storage</b>	16 GB memory; 1 TB SSD storage
<b>Memory module type</b>	DIMM
<b>Memory size</b>	16
<b>Memory size uom</b>	GB
<b>Memory speed</b>	3200
<b>Memory speed uom</b>	MHz
<b>Memory type</b>	DDR4
<b>Number of User-accessible Memory Slots</b>	0
<b>Package depth, imperial (extended size)</b>	20.47
<b>Package depth, imperial (most common size)</b>	19.01
<b>Package depth, metric (extended size)</b>	52
<b>Package depth, metric (most common size)</b>	48.3
<b>Package dimensions (W x D x H)</b>	2.71 x 20.47 x 12 in
<b>Package height, imperial (extended size)</b>	12
<b>Package height, imperial (most common size)</b>	12
<b>Package height, metric (extended size)</b>	30.5
<b>Package height, metric (most common size)</b>	30.5
<b>Package weight</b>	5.32 lb
<b>Package width, imperial (extended size)</b>	2.71
<b>Package width, imperial (most common size)</b>	2.71
<b>Package width, metric (extended size)</b>	6.9
<b>Package width, metric (most common size)</b>	6.9
<b>Packaging unit of measure (imperial)</b>	in
<b>Packaging unit of measure (metric)</b>	cm

<b>Processor Brand</b>	AMD
<b>Processor cache</b>	16 MB L3
<b>Processor core</b>	16
<b>Processor family</b>	Ryzen™ 7
<b>Processor maximum frequency</b>	4.4
<b>Processor maximum frequency uom</b>	GHz
<b>Processor model</b>	5800U
<b>Processor threads</b>	8
<b>Product brand name</b>	HP
<b>Product long name specifications</b>	HP ENVY x360 Convert 13-ay1016nn, 13.3", touch screen, Windows 11 Home, AMD Ryzen™ 7, 16GB RAM, 1TB SSD, FHD, Nightfall black
<b>Screen-to-body ratio (without speakers)</b>	88% <sup>[18]</sup>
<b>Storage capacity</b>	1
<b>Storage capacity uom 01</b>	TB
<b>Storage form factor 01</b>	M.2
<b>Storage interface 01</b>	PCIe®
<b>Storage interface protocol 01</b>	NVMe™
<b>Storage type</b>	SSD
<b>Storage type 01</b>	SSD
<b>Touchscreen</b>	Yes
<b>UNSPSC code</b>	43211503
<b>Wireless antenna</b>	2x2
<b>Wireless standard</b>	Wi-Fi 6
<b>Wireless supplier</b>	Realtek
<b>Wireless transfer speeds</b>	Supporting Gigabit data rate

[1] 25 GB of free Dropbox storage for 12 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.

[3] Windows MobileMark 18 Battery life will vary depending on various factors including product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See <https://bapco.com/products/mobilemark-2018/> for additional details.

[5] Recharges your battery up to 50% within 30 minutes when the system is off (using "shut down" command). Recommended for use with the HP adapter provided with the notebook, not recommended with a smaller capacity battery charger. 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. See <http://store.hp.com> for a full list of product features.



*[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. AMD's numbering is not a measurement of clock speed.*

*[7] Max Boost clock frequency performance varies depending on hardware, software and overall system configuration.*

*[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.*

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## Accessories

### Cases and Covers

★ : Recommended

#### Backpacks

HP ENVY Urban 15 Backpack	3KJ72AA ★
HP Renew Backpack	1A212AA ★
HP 15.6 Classic Backpack	1FK05AA
HP 15.6 SMB Backpack Case	TOF84AA
HP 15.6 in Black Odyssey Backpack	L8J88AA
HP 15.6 in Green/Gray Odyssey Backpack	L8J89AA
HP 15.6 in Value Backpack	K0B39AA
HP 17.3 in OMEN Gaming Backpack	K5Q03AA
HP Active Backpack	1LU22AA
HP Active Backpack	1LU23AA
HP Commuter Backpack	5EE91AA
HP Lightweight 15.6 Laptop Backpack	1G6D3AA
HP Pavilion Gaming Backpack 300	6EU56AA
HP Pavilion Gaming Backpack 400	6EU57AA
HP Pavilion Gaming Backpack 500	6EU58AA
HP Prelude 15.6-inch Backpack	2Z8P3AA
HP Prelude Backpack 15.6	1E7D6AA
HP Renew Backpack	1A211AA
HP Renew Travel 15.6-inch Backpack	2Z8A3AA
HP Spectre Folio Backpack	8GF06AA
OMEN Transceptor 15 Backpack	7MT84AA
OMEN Transceptor 15 Rolltop Backpack	7MT83AA
OMEN by HP Gaming Backpack	4YJ80AA

#### Cases

HP 15.6 SMB Topload Case	TOF83AA
HP 15.6 Value Black Topload	T9B50AA
HP 15.6 Value Topload	K0B38AA
HP Classic Briefcase	1FK07AA
HP ENVY Urban 15 Briefcase	3KJ73AA
HP Lightweight 15.6 Laptop Bag	1G6D5AA

HP Lightweight 15.6-inch Laptop Backpack	1B3M4AA
HP Prelude 15.6-inch Laptop Bag	2Z8P4AA
HP Prelude 15.6-inch Topload	1E7D7AA
HP Prelude 17.3-inch Laptop Bag	34Y64AA
HP Renew Slim Briefcase	1A214AA
HP Renew Slim Briefcase	1A215AA
HP Renew Topload	1A213AA
HP Renew Topload	1A218AA
HP Renew Tote	1A216AA
HP Renew Tote	1A217AA
HP Renew Travel 15.6-inch Laptop Bag	2Z8A4AA
HP Spectre Folio Top Load	8GF07AA
OMEN Transceptor 17 Duffel Bag	7MT82AA

## Covers

HP ENVY Urban 14 Sleeve	3KJ71AA
HP Renew Sleeve	1A853AA

## Keyboards/Mice and Input Devices

### Mice

HP 220 Silent Wireless Mouse	391R4AA
HP 240 Black Bluetooth Mouse	3V0G9AA
HP 240 Empire Red Bluetooth Mouse	43N05AA
HP 240 Pike Silver Bluetooth Mouse	43N04AA
HP 930 Creator Wireless Mouse	1D0K9AA

### Keyboard and Mouse Kits

HP 330 Wireless Mouse and Keyboard Combination	2V9E6AA
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## Audio/Multimedia and Communication Devices

### Speakers

HP Black Bluetooth Speaker 350	2D802AA
HP Black Bluetooth Speaker 360	2D799AA
HP Blue Bluetooth Speaker 350	2D803AA
HP Blue Bluetooth Speaker 360	2D800AA

HP Gaming Speakers X1000	8PB07AA
HP Silver Bluetooth Speaker 350	2D804AA
HP Silver Bluetooth Speaker 360	2D801AA

## Headsets

HP Bluetooth Headset 500	2J875AA
HP Boom Mic Headset 150	2EM62AA
HP Earbuds Black Headset 150	X7B04AA
HP H2800 Black Headset	J8F10AA
HP In-Ear Headphone 100	1KF54AA
HP In-Ear Headset 150	2AP91AA
HP Pavilion Gaming Headset 400	4BX31AA
HP Pavilion Gaming Headset 600	4BX33AA
HP Stereo 3.5mm Headset G2	428H6AA
HP Stereo 3.5mm Headset G2	428K7AA
HP Stereo 3.5mm Headset G2	428K7PT
HP Stereo 3.5mm Headset G2	428K7UT
HP Stereo Headset H2800	2AP94AA
HP Stereo USB Headset G2	428H5AA
HP Stereo USB Headset G2	428K6AA
HP Stereo USB Headset G2	428K6UT
HP X1000 Wireless Gaming Headset	7HC43AA
OMEN Blast Headset	1A858AA
OMEN by HP Mindframe Prime Headset	6MF35AA
OMEN by HP Mindframe Prime Headset	6MF36AA

## Headphones

OMEN Dyad Earbuds	8JE67AA
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## Networking Products

### Switches/Hubs/Routers/Converters/Repeaters

HP ENVY USB-C Hub	5LX63AA
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## Batteries/Chargers/Adapters

### Power Adapters

HP Pavilion USB-C to HDMI 2.0 Adapter

2PC54AA

## Cables/Cable Kits/Cable Adapters

### Cable Adapters

HP USB Type-C to RJ45 Adapter

V8Y76AA

HP USB-C to HDMI 2.0

1WC36AA

HP USB-C to HDMI 2.0

1WC36UT

HP USB-C to RJ45 Adapter

V7W66AA

HP USB-C to RJ45 Adapter

V7W66UT

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

## Monitors

### HP Home Monitors

★ : Recommended

#### HP Value Displays

HP 24mh 23.8-inch Display	1DOJ9AA	
HP 24mh 23.8-inch Display	7XM23AA	
HP 25mx 24.5-inch Display	4JF31AA	obsolete
HP 25x 24.5-inch Display	3WL50AA	
HP 25x 24.5-inch Display	3WL51AA	obsolete
HP 27f 27-inch 4K Display	5ZP65AA	
HP 27f 27-inch 4K Display	5ZP65AS	
HP 27f 27-inch 4K Display	5ZP66AA	
HP 27mx 27-inch Display	4KK74AA	obsolete
HP 27x 27-inch Display	3WL52AA	obsolete
HP 27x 27-inch Display	3WL53AA	obsolete
HP 27xq 27-inch Display	3WL54AA	
HP 27xq 27-inch Display	3WL55AA	obsolete
HP M27fq QHD Monitor	2H4B5AA	
HP M27fq QHD Monitor	2H4B5AS	
HP M27fq QHD Monitor	2H4B5E9	
HP M27fq QHD Monitor	2H4B8AA	
HP V28 4K Monitor	8WH57AA	
HP V28 4K Monitor	8WH58AA	
HP V28 4K Monitor	8WH58AS	
HP V28 4K Monitor	8WH59AA	
HP X24c Gaming Monitor	13Q95AA	
HP X24c Gaming Monitor	9EK40AA	
HP X24c Gaming Monitor	9FM22AA	
HP X24c Gaming Monitor	9FM22AS	
HP X27i 2K Gaming Monitor	8AG16AA	
HP X27i 2K Gaming Monitor	8GC08AA	
HP X27i 2K Gaming Monitor	8GC08AS	

#### HP Home Monitors

HP M27ha FHD Monitor	22H94AA	
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HP M27ha FHD Monitor	35M57AA
HP U27 4K Wireless Monitor	9TQ11AA
HP U27 4K Wireless Monitor	9TQ12AA
HP U27 4K Wireless Monitor	9TQ13AA
HP U27 4K Wireless Monitor	9TQ13AS
HP V241ib FHD Monitor	453D6AA
HP X24i Gaming Monitor	2W922AA
HP X24ih Gaming Monitor	13L82AA
HP X24ih Gaming Monitor	2W924AA
HP X24ih Gaming Monitor	2W925AA
HP X27 FHD Gaming Monitor	2V6B2AA
HP X27 FHD Gaming Monitor	2V6B4E9
HP X27c FHD Gaming Monitor	32G11AA
HP X27c FHD Gaming Monitor	32G12AA
HP X27c FHD Gaming Monitor	32G13AA
HP X27c FHD Gaming Monitor	32G13AS
HP X27c FHD Gaming Monitor	32G13E9
HP X27q QHD Gaming Monitor	2V7U3AA
HP X27q QHD Gaming Monitor	2V7U5E9
HP X27qc QHD Gaming Monitor	32H00AA
HP X27qc QHD Gaming Monitor	32H01AA
HP X27qc QHD Gaming Monitor	32H02AA
HP X27qc QHD Gaming Monitor	32H02AS
HP X27qc QHD Gaming Monitor	32H02E9
HP X32 QHD Gaming Monitor	2V7V2AA
HP X32 QHD Gaming Monitor	2V7V3AA
HP X32 QHD Gaming Monitor	2V7V4AA
HP X32 QHD Gaming Monitor	2V7V4AS
HP X32 QHD Gaming Monitor	2V7V4E9
HP X32c FHD Gaming Monitor	33K29AA
HP X32c FHD Gaming Monitor	33K30AA
HP X32c FHD Gaming Monitor	33K31AA
HP X32c FHD Gaming Monitor	33K31AS
HP X32c FHD Gaming Monitor	33K31E9
HP X34 WQHD Gaming Monitor	2V7W4AA
HP X34 WQHD Gaming Monitor	2V7W5AA

HP X34 WQHD Gaming Monitor	2V7W6AA
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HP X34 WQHD Gaming Monitor	2V7W6AS
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HP X34 WQHD Gaming Monitor	2V7W6E9
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## OMEN by HP Displays

OMEN 25i Gaming FHD Monitor	22J05AA
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OMEN 25i Gaming FHD Monitor	22J05AS
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OMEN 25i Gaming FHD Monitor	22J05E9
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OMEN 27i Monitor	8AC94AA
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OMEN 27i Monitor	8AC94AS
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OMEN 27i Monitor	8AC95AA
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OMEN X 25f 240Hz Gaming Display	4WH47AA
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OMEN X 25f 240Hz Gaming Display	4WH48AA
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OMEN X 27 240Hz Gaming Monitor	6FN07AA
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OMEN X 27 240Hz Gaming Monitor	6FN07AS
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OMEN by HP 25 Display	Z7Y57AA
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OMEN by HP 25 Display	Z7Y57AS
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