HP ENVY All-in-One – 32-a1023nf (200G3EA)

Overview

Bring your ideas to life on the big screen

Create without limits on the ENVY All-in-One PC's massive 32" diagonal display that features a high contrast display with a broad color gamut so you can bring you videos and photos projects to life like a pro at home. Experience the performance and responsiveness of an Intel® processor and NVIDIA® graphics so you can create faster than ever.

Power to create with ease

Experience impressive performance with an Intel® processor, NVIDIA® graphics, and ample memory and fast storage so you can power through your photo and video projects effortlessly.

Intuitively designed for you

Enjoy easy access to ports, wireless charging, a multi-device keyboard and accurate audio with tweeters and subwoofer custom tuned by Bang & Olufsen.

True-to-life colors that amaze

See your creations come to life on a stunning 31.5" diagonal, wide-color-gamut HDR UHD 4K display[1]. With 600 nits peak brightness and anti-reflective coating, view and edit creative projects with high color accuracy and without the glare.

Privacy camera for peace of mind

Protect your privacy with the help of a 1920p pop-up privacy camera featuring an 88° wide-angle field of view and microphone that are enabled only when in use.

Features

Windows 10

Do great things confidently with the familiar feel of Windows - only better.[2]

10th Gen Intel® Desktop Processors

Outstanding 10th Gen Intel® Core™ processor performance easily keeps up with all your multimedia demands. Delivering enhanced 4K display capabilities with HDR support and optional ultra-fast Wi-Fi 6 options, tackle your tasks with no interruptions.[3]

NVIDIA® GeForce® GTX 1050 graphics

Advanced graphics processing powers everything from the latest games, to visually demanding design or editing work with fewer slowdowns, hiccups, and stuttering.

Intel® UHD Graphics 630

Smoothly stream 4K content and play your favorite games in 720p, without the need for a dedicated graphics card. With excellent Intel® UHD graphics performance, you'll see the difference in everything you do.[4]

Intel® Optane™

This smart system accelerator learns from your everyday computing and helps your performance—making everything fast, smooth, and responsive.[5]

4K IPS display

With 8.2 million pixels, be mesmerized by the 4K experience. The spectacular 3840 x 2160 resolution delivers your content in jaw-dropping quality with true-to-life definition and 178° wide-viewing angles. [6]

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[2] 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 10 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. See http://www.microsoft.com.

[3] Based on Wi-Fi 5 80MHz and Wi-Fi 6 160MHz minimum requirements when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 802.11ax (Wi-Fi 6). Only available in countries where 802.11ax is supported. Graphics output may be limited based on the maximum resolution of the display. Graphics output may be limited based on the maximum resolution of the display.

[4] High-definition (HD) content required to view HD images. Graphics output may be limited based on the maximum resolution of the display. 4K content required to view full 4K images.

[5] 7th Generation Intel® Core™ i processor or later required. Intel® Optane™ memory system acceleration does not replace or increase the DRAM in your system.

[6] 4K content required to view full 4K images.

Specifications

Form factor	All-in-One
Operating system	Windows 10 Home 64
Product color	Nightfall black aluminum, dark ash woodgrain finish base and pale gold logo
Processor family	10th Generation Intel® Core™ i7 processor
Processor	Intel® Core™ i7-10700 (2.9 GHz base frequency, up to 4.7 GHz with Intel® Turbo Boost Technology, 16 MB L3 cache, 8 cores)[6,7]
Chipset	Intel® H470
Memory	16 GB DDR4-2933 SDRAM (2 x 8 GB)
Memory Slots	2 SODIMM
Internal Storage	1 TB Intel® SSD
Memory card device	HP 3-in-1 memory card reader
Graphics	Integrated
Graphics (integrated)	Intel® UHD Graphics 630
Display	80 cm (31.5")diagonal 4K IPS ZBD HDR 600 micro-edge WLED-backlit with anti-reflection edge-to-edge glass, 450 nits, 98% DCI-P3 (3840 x 2160)
Display	31.5" diagonal 4K IPS ZBD HDR 600 micro-edge WLED-backlit with anti-reflection edge-to-edge glass, 450 nits, 98% DCI-P3 (3840 x 2160)
Audio features	Audio by Bang & Olufsen; Dual 40 W speakers; 1 woofer
Minimum dimensions (W x D x H)	71.96 x 21.4 x 55.72 cm
Minimum dimensions (W x D x H)	28.3 x 8.4 x 21.9 in
Weight	13.8 kg
Weight	30.4 lb
Keyboard	HP USB Nightfall Black Wireless keyboard and mouse combo
Webcam	HP Privacy 5MP IR Camera with integrated dual array digital microphone
Ports	1 SuperSpeed USB Type-A 5Gbps signaling rate (Battery Charging 1.2); 1 headphone/microphone combo
Expansion slots	2 M.2
Ports	1 Thunderbolt™ 3 (40Gbps signaling rate) with SuperSpeed USB Type-C® 10 Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.2); 1 SuperSpeed USB Type-C® 10Gbps signaling rate; 2 SuperSpeed USB Type-A 10Gbps signaling rate; 1 HDMI-in 2.0; 1 HDMI-out 2.0; 1 RJ-45
Package dimensions (W x D x H)	86.7 x 28.7 x 65.5 cm
Package weight	20.88 kg
Network interface	Integrated 10/100/1000 GbE LAN
Wireless	Intel® Wi-Fi 6 AX 201 (2x2) and Bluetooth® 5 combo (Supporting Gigabit file transfer speeds)

Power supply type	280 W Smart AC power adapter
Energy efficiency	ENERGY STAR® certified
Security management	Kensington Security lock slot
Pre-installed software	Netflix
Software included	McAfee LiveSafe™
Software – Productivity & finance	1 month trial for new Microsoft 365 customers[24]
Cloud service	Dropbox[1]
UPC number	195122636913

Additional specifications

Display	80 cm (31.5") diagonal 4K display
Display	31.5" diagonal 4K display
ECC memory	No
Graphics	Discrete
Graphics (discrete)	NVIDIA® GeForce® GTX 1650 (4 GB GDDR5 dedicated)
Graphics card brand	NVIDIA®
Graphics card family	GeForce®
Graphics card memory size uom	GB
Graphics card memory type	GDDR5
I/O Port location	Side
I/O Port location	Rear
MDA key selling point	Windows 10 Home or other operating systems available
Memory and storage	16 GB memory; 1 TB SSD storage
Memory layout (slots & size)	2 x 8 GB
Memory module type	SODIMM
Memory size	16
Memory speed	2933
Memory speed uom	MHz
Memory type	DDR4
Model Number	GTX 1650
Number of memory slots	2
Package dimensions (W x D x H)	34.13 x 11.3 x 25.79 in
Package weight	46.04 lb
Processor Brand	Intel®
Processor base frequency	2.9
Processor base frequency uom	GHz
Processor cache	16 MB L3
Processor core	8
Processor family	Core™ i7
Processor frequency technology	Intel® Turbo Boost Technology
Processor generation	10th Generation
Processor maximum frequency	4.7
Processor maximum frequency uom	GHz

Processor model	10700
Processor speed	2.9 GHz
Processor threads	16
Product brand name	HP
Storage acceleration	32 GB NVMe™ Intel® Optane™ Memory for storage acceleration[9]
Storage type	SSD

Accessories

Keyboards/Mice and Input Devices

★ : Recommended

Keyboard and Mouse Kits

HP Pavilion Wireless Keyboard and Mouse 800	**4CE99AA** ★	
HP C2500 Desktop	H3C53AA	
HP C2500 Desktop	J8F15AA	
HP C2710 Combo Keyboard	M7P30AA	
HP Pavilion Keyboard and Mouse 200	9DF28AA	
HP Pavilion Wired Keyboard and Mouse 400	4CE97AA	
HP Pavilion Wireless Keyboard and Mouse 600	3ML05AA	
HP Pavilion Wireless Keyboard and Mouse 800	4CF00AA	
HP Wired Keyboard and Mouse 160	6HD76AA	
HP Wireless Keyboard and Mouse 200	Z3Q63AA	obsolete
HP Wireless Keyboard and Mouse 250	6JU16AA	
HP Wireless Keyboard and Mouse 300	3ML04AA	

Mice

HP Spectre Rechargeable Mouse 700	**3NZ71AA** ★	
HP ENVY Rechargeable Mouse 500	**2LX92AA** ★	
HP 201 Silver Wireless Mouse	3DH83AA	obsolete
HP Bluetooth Travel Mouse	6SP25AA	
HP Bluetooth® Mouse 250	6CR73AA	
HP Bluetooth® Mouse Z5000	2HW67AA	
HP Dual Mode Mouse	6CR71AA	
HP ENVY Rechargeable Mouse 500	2WX69AA	
HP Elite Presenter Mouse	3YF38AA	
HP Pavilion Gaming Mouse 200	5JS07AA	
HP Pavilion Gaming Mouse 300	4PH30AA	
HP Pavilion Gaming Mouse 300	4PH31AA	
HP Retractable Wired Mouse 100	6GJ71AA	
HP Spectre Bluetooth Mouse 500	1AM57AA	obsolete
HP Spectre Bluetooth Mouse 500	1AM58AA	
HP Spectre Rechargeable Mouse 700	3NZ70AA	
HP Spectre Rechargeable Mouse 700	4YH33AA	

HP Spectre Rechargeable Mouse 700	4YH34AA	
HP Spectre Rechargeable Mouse 700	5VD59AA	
HP Wired Mouse 100	6VY96AA	
HP Wired Mouse 1000	4QM14AA	
HP Wireless Mouse 200	2HU82AA	
HP Wireless Mouse 200	2HU83AA	
HP Wireless Mouse 200	2HU84AA	
HP Wireless Mouse 200	2HU85AA	
HP Wireless Mouse 200	2VY31AA	
HP Wireless Mouse 200	2VY33AA	
HP Wireless Mouse 200	X6W31AA	
HP Wireless Mouse 201	3XA55AA	
HP Wireless Mouse 202	2NE06AA	
HP Wireless Mouse 220	3FV66AA	
HP Wireless Mouse 220	7KX10AA	
HP Wireless Mouse 220	7KX11AA	
HP Wireless Mouse 220	7KX12AA	
HP Wireless Mouse 220 with Pouch	6JA61AA	
HP Wireless Mouse 220 with Pouch	6JA62AA	
HP Wireless Mouse 220 with Pouch	6JA63AA	
HP Wireless Mouse 250	3FV67AA	
HP Wireless Mouse X200	6VY95AA	
HP Wireless Mouse X3000	2HW68AA	obsolete
HP Wireless Mouse X3000	2HW69AA	
HP Wireless Mouse Z3700	4QF62AA	obsolete
HP Wireless Mouse Z3700	4VY81AA	
HP Wireless Mouse Z3700	4VY82AA	
HP Wireless Mouse Z3700	6SD49AA	
HP Wireless Mouse Z3700	7UH85AA	
HP Wireless Mouse Z3700	7UH86AA	
HP Wireless Mouse Z3700	7UH88AA	
HP Wireless Mouse Z3700	7UH89AA	
HP Wireless Mouse Z4000	2HW66AA	
HP Wireless Mouse Z4000	H5N61AA	
HP X220 Backlit Gaming Mouse	8DX48AA	
HP X3000 Wireless Mouse	H2C22AA	

HP X4500 Wireless (Black) Mouse	H2W16AA
HP X4500 Wireless (Metal Black) Mouse	H2W26AA
HP X500 Wired Mouse	E5E76AA
HP X900 Wired Mouse	V1S46AA
HP Z3200 Black Wireless Mouse	J0E44AA
HP Z3200 White Wireless Mouse	E5J19AA
HP Z3700 Black Wireless Mouse	V0L79AA
HP Z3700 Blue Wireless Mouse	V0L81AA
HP Z3700 Ceramic White Wireless Mouse	171D8AA
HP Z3700 Forest Teal Wireless Mouse	171D9AA
HP Z3700 Gold Wireless Mouse	X7Q43AA
HP Z3700 Red Wireless Mouse	V0L82AA
HP Z3700 Silver Wireless Mouse	X7Q44AA
HP Z3700 White Wireless Mouse	V0L80AA
HP Z5000 Bluetooth Mouse	E5C13AA
HP Z5000 Dark Ash Silver Wireless Mouse	W2Q00AA
OMEN Vector Essential Mouse	8BC52AA
OMEN by HP Mouse 400	3ML38AA
OMEN by HP Mouse 600	1KF75AA
OMEN by HP Photon Wireless Mouse	6CL96AA
OMEN by HP Reactor Mouse	2VP02AA
OMEN by HP Reactor Mouse	7ZF19AA

Keyboards

HP Pavilion Wireless Keyboard 600	**4CE98AA ★**
HP Classic Wired Keyboard	WZ972AA
HP K1500 Keyboard	H3C52AA
HP K1500 Keyboard	J8F16AA
HP K2500 Wireless Keyboard	E5E77AA
HP Keyboard 100	2UN30AA
HP Pavilion Gaming Keyboard 500	3VN40AA
HP Pavilion Gaming Keyboard 550	9LY71AA
HP Pavilion Gaming Keyboard 800	5JS06AA
HP Pavilion Wired Keyboard 300	4CE96AA
HP Pavilion Wireless Keyboard 400	4XL88AA
HP Pavilion Wireless Keyboard 600	4CF02AA

HP Spectre Rechargeable Keyboard 1000	2ER92AA
OMEN by HP Encoder Keyboard	6YW75AA
OMEN by HP Encoder Keyboard	6YW76AA
OMEN by HP Keyboard 1100	1MY13AA
OMEN by HP Sequencer Keyboard	2VN99AA

Batteries/Chargers/Adapters

AC Adapters

HP 65W 7.4mm Non-EM AC Adapter	Y5Y42AA
HP 65W Slim AC Adapter	5SA18AA
HP 65W Slim with USB AC Adapter	G6H47AA
HP 90W Slim with USB AC Adapter	G6H45AA

Power Adapters

HP Pavilion USB-C™ to HDMI 2.0 Adapter	2PC54AA

Audio/Multimedia and Communication Devices

Headphones

HP Black Doha In-Ear Headset 150	Z3M53AA
OMEN Dyad Earbuds	8JE67AA

Headsets

HP Bluetooth Headset 400	2ZW81AA
HP Bluetooth Headset 400	2ZW82AA
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 Headphone 100	1KF55AA
HP In-Ear Headphone 100	1KF56AA
HP In-Ear Headset 150	2AP90AA
HP In-Ear Headset 150	2AP91AA
HP In-Ear Headset 150	2AP92AA
HP In-Ear Headset 150	2AP93AA
HP On-Ear Headphone 200	2VB08AA

HP On-Ear Headphone 200	2VB09AA	obsolete
HP On-Ear Headphone 200	2VB10AA	obsolete
HP Pavilion Gaming Headset 400	4BX31AA	
HP Pavilion Gaming Headset 400	4BX32AA	obsolete
HP Pavilion Gaming Headset 600	4BX33AA	
HP Pavilion Gaming Headset 600	5RY19AA	
HP Stereo Headset H2800	2AP94AA	
HP Stereo Headset H2800	2AP95AA	
HP X1000 Wireless Gaming Headset	7HC42AA	
HP X1000 Wireless Gaming Headset	7HC43AA	
OMEN by HP Headset 800	1KF76AA	
OMEN by HP Mindframe Prime Headset	6MF35AA	
OMEN by HP Mindframe Prime Headset	6MF36AA	
Omen X by HP Mindframe Headset	3XT27AA	

Speakers

HP Gaming Speakers X1000	8PB07AA

Networking Products

Switches/Hubs/Routers/Converters/Repeaters

HP ENVY USB-C Hub	5LX63AA

Graphics Cards

Graphics Connectors/Adapters

HP HDMI to VGA Cable Adapter	X1B84AA

Cables/Cable Kits/Cable Adapters

Cable Adapters

HP Spectre USB-C Travel Dock	2SR85AA	
HP USB Type-C to RJ45 Adapter	V8Y76AA	
HP USB-C Dock	Y0K80AA	
HP USB-C to Multi-port Hub	1BG94AA	
HP USB-C to USB 3 Adapter	P7Z56AA	obsolete
HP USB-C to USB-A Hub	Z8W90AA	

| HP USB-C to VGA Display Adapter | P7Z54AA |

Docking and Port Replicators

Docking Stations

| HP Thunderbolt Dock 120W with HDMI Adapter | 6HP48AA |

PC Drives and Storage

PC DVD+RW Drives

| HP USB External DVDRW Drive | F6V97AA |