Datasheet

HP ENVY x360 Convert 15-es0277ng

Power and precise color to fuel your creations plus privacy features

HP ENVY x360 15 Convertible PC is a 2-in-1 touchscreen laptop with a powerful Intel® Core™ processor, high definition display with dazzling color accuracy and added security features like a physical camera shutter and a microphone mute button.

*Product image may differ from actual product

HP QuickDrop
Easily share photos, videos, and files between your mobile devices and HP ENVY over Wi-Fi.

Intelligently adapts to you
Smart Sense intelligently adapts to your work habits by adjusting your PC's system for optimal performance.

Peace of mind at your fingertips
Keep your work safe with fingerprint reader and privacy camera shutter key, and keep your chats private with the mute mic button.

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Featuring

Windows 10
Do great things confidently with the familiar feel of Windows – only better. Be more secure, more productive, and get more personal with preinstalled features and enhancements like Windows Hello and Cortana.[1]

Exceptional experience, anywhere
11th Gen Intel® Core™ processors bring the perfect combination of features to make you unstoppable. Get things done fast with high performance, instant responsiveness and best-in-class connectivity.[2]

NVIDIA® GeForce® MX450
Accelerate your laptop with high-performance, power-efficient NVIDIA® GeForce® MX450 graphics. Now, you can enjoy incredible HD photo and video editing, plus faster, smoother gaming. GeForce MX450's powerful graphics engine and next-gen technologies give you even faster performance over the latest integrated graphics. It even comes with power-saving NVIDIA Optimus® technology that lets you do a whole lot more between charges.

AMOLED display
A display with pixel dimming that can present true black color and high contrast that makes it easier on your eyes to experience richer, deeper colors and 4K HDR support for amazing picture quality.[3]

HP Fast Charge
When your laptop is low on power, no one has time to wait hours to recharge. Power down your device and go from 0 to 50% charge in approximately 30 minutes.[4]

Effortlessly connected
Enjoy a smoother wireless experience with Wi-Fi 6 (2x2) and Bluetooth® 5.0 combo, all your connections are solid and up to 3x faster file transfer speeds than Wi-Fi 5.[5]

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.[6]

Thunderbolt™ 4 with USB4™ Type-C®
Power your device or connect an external display with a blazing 40Gbps signaling data rate from one impressive SuperSpeed USB-C® port with Thunderbolt™ 3. And it's reversible, so you never have to worry about plugging in upside down.[7]

HP QuickDrop
This bridge between your PC and mobile device lets you share mobile content right to your PC with a simple, secure Wi-Fi connection.

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.[8]

Amazon Alexa Voice Service
Listen to music, get news, manage smart home devices and enable any of more than 50K skills – all hands-free using Amazon Alexa on your PC.[9]

McAfee® LiveSafe™
Protect your operating system with a free 30-day McAfee® LiveSafe™ subscription.[10]

PCIe NVMe™ M.2 SSD storage
Boot up in seconds with lightning fast speed with up to 512 GB PCIe NVMe™ M.2 SSD storage.

Dual channel memory
With dual channel technology, two channels work simultaneously to double the communication speed between the memory controller and the RAM increasing system performance.

All-metal chassis
See and feel a heightened sense of craftsmanship with an all-metal angular chassis design, polished accents, and high-quality materials built to last.

Thoughtfully designed
Built with the environment in mind, our laptop design includes sustainable materials like ocean-bound plastic in the speaker enclosure.[11]

Thoughtfully designed
Built with the environment in mind, our laptop design includes sustainable materials like recycled aluminum.[12]

Keyboard keycaps contain post-consumer recycled plastic
We're bringing a more sustainable design to our keyboards by using keycaps made with post-consumer recycled plastic.[13]

SD and Micro SD card reader
Simply insert an SD or Micro SD card and increase your device's storage for more movies, photos, and music, or easily access any content you have stored on an existing card.

HP Imagepad with multi-touch gesture
This true multi-touch touchpad supports four finger gestures and lets you scroll, zoom, and navigate with a simple touch.

Full-sized keyboard
The full-sized keyboard allows you to work anywhere, with 1.5mm key travel for typing comfort and total productivity.

Fingerprint reader
Seamlessly log in into your device in any position with the touch of your finger. Patented 3-D fingerprint technology ensures secure access.[14]

Microphone Mute
Enjoy greater peace of mind and the convenience of a dedicated microphone mute button that you can easily activate and know it's on or off with an LED indicator light.

An exceptionally rich audio experience
With HP Dual Speakers, HP Audio Boost, and custom tuning by the experts at Bang & Olufsen, entertainment comes to life with sound you can feel. Awaken your senses with PC audio perfection.

HP Fast Charge
When your laptop is low on power, no one has time to wait hours to recharge. Power down your device and go from 0 to 50% charge in approximately 30 minutes.[15]

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.[16]

360° geared hinge
Innovatively engineered to rotate 360 degrees so that you can use your device in four positions. Work in laptop position, watch in reverse position, play in tent position, and go in tablet position.

All-in-One Keyboard
Control your privacy, security and multimedia with the touch of a button. With all your hotkeys in one area, seamlessly navigate with no distractions.

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Specifications

Performance

Operating system
Windows 10 Home 64

Processor
Intel® Core™ i7-1165G7 (up to 4.7 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 4 cores)[6,7]
Processor family: 11th Generation Intel® Core™ i7 processor

Chipset
Intel® Integrated SoC

Memory
8 GB DDR4-3200 MHz RAM (2 x 4 GB)
Transfer rates up to 3200 MT/s.
Number of User-accessible Memory Slots: 0

Storage
512 GB PCIe® NVMe™ M.2 SSD
Optical drive not included
Dropbox[1]

Graphics
Discrete: NVIDIA® GeForce® MX450 (2 GB GDDR5 dedicated) ;

Audio
Audio by Bang & Olufsen; Dual speakers; HP Audio Boost

Display
39.6 cm (15.6") diagonal, 4K UHD (3840 x 2160), OLED, multitouch-enabled, UWVA, edge-to-edge glass, micro-edge, Corning® Gorilla® Glass NBT™, 400 nits, 100% DCI-P3

Screen-to-body ratio
88.67%[18]

Power
90 W Smart AC power adapter;

Battery type
3-cell, 51 Wh Li-ion polymer;
210 g;

Battery and Power
Up to 5 hours and 45 minutes[3];
Supports battery fast charge: approximately 50% in 30 minutes[5]

Maximum battery life video playback
Up to 8 hours and 45 minutes[10]

Connectivity

Wireless connectivity
Intel® Wi-Fi 6 AX201 (2x2) and Bluetooth® 5 combo (Supporting Gigabit data rate) [11,12,13,16]
MU-MIMO supported; Miracast compatible

Ports
1 Thunderbolt™ 4 with USB4™ Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4, HP Sleep and Charge); 1 SuperSpeed USB Type-A 10Gbps signaling rate (HP Sleep and Charge); 1 SuperSpeed USB Type-A 10Gbps signaling rate; 1 HDMI 2.0b; 1 AC smart pin; 1 headphone/microphone combo [19,20]
1 multi-format SD media card reader

Webcam
HP Wide Vision 720p HD camera with camera shutter and integrated dual array digital microphones

Design

Product color
Natural silver aluminum
Sandblasted anodized finish

Software

HP apps
HP Audio Switch; HP Connection Optimizer; HP Command Center; HP QuickDrop; OMEN Gaming Hub; HP Display Control

Software
Alexa; ExpressVPN (30 day free trial); LastPass Premium (30 day free trial) [22];
1 month trial for new Microsoft 365 customers [24]

Service & support
McAfee LiveSafe™ [2]

Additional information

Part Number
P/N: 447G3EA #ABD

Ecolabels
ENERGY STAR® certified; EPEAT® Silver registered [2]

Sustainable impact specifications:
Ocean-bound plastic in speaker enclosure; Contains recycled metal; Keyboard keycaps made with post-consumer recycled plastic [39,40,41]

Weight
1.77 kg;
Packed: 3.13 kg
Weight Note: Weight varies by configuration

Dimensions
35.9 x 22.82 x 1.84 cm;
Packed: 6.9 x 49.3 x 30.5 cm
Dimension Note: Dimensions vary by configuration

Warranty
2 year (2/2/0) limited warranty includes 2 years of parts and labor. No on-site repair. Terms and conditions vary by country. Certain restrictions and exclusions apply.

Keyboard
Full-size, backlit, natural silver keyboard
HP Imagepad with multi-touch gesture support; Precision Touchpad Support

Security management
All-in-One keyboard
Fingerprint reader

Sensors
Accelerometer; eCompass; Gyroscope; IR Thermal sensor

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Warranty services*

3-year pickup and return
UM946E

Key Selling Points Footnotes

Feature Messaging Footnotes

[1] 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. Some features including voice supported Cortana, inking, and Continuum require more advanced hardware. See www.windows.com. Apps sold separately.
[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 higher performance.
[3] Graphics output may be limited based on the maximum resolution of the display. 4K content required to view full 4K images.
[4] 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.
[5] Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 (802.11ax) is backwards compatible with prior 802.11 specs. The specifications for Wi-Fi 6 are draft and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other Wi-Fi 6 devices. Only available in countries where 802.11ax is supported. Wi-Fi 6 (802.11ax) is not supported in Ukraine, Russia, and Indonesia where the Wi-Fi 6 (802.11ax) will be disabled and downgraded to 802.11ac by the Intel's DRS solution.
[6] Features may require software or other 3rd party applications to provide the described functionality.
[7] Actual throughput may vary. USB Type-C® and USB-C® are trademarks of USB Implementers Forum.
[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. Internet service required and not included.
[9] Alexa home supported devices are not included and must be purchased separately.
[10] Internet service required and not included. Subscription required after 30 days.
[11] Percentage of ocean-bound plastic contained in each component varies by product.
[12] Laptops manufactured with recycled aluminum material in product cover. Percent of recycled aluminum varies by product.
[13] Percentage of post-consumer recycled plastic contained in keycap varies by product.
[14] Internet service required and not included.
[15] 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 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.
[16] The Flicker-free capability eliminates screen flickering through integrating DC-dimming LED backlights.

Technical Specifications Footnotes

[1] New Dropbox users are eligible to get 25 GB of Dropbox space free 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.
[2] Free 30 day subscription of McAfee LiveSafe service included. Internet access required and not included. Subscription required after expiration.
[3] Windows 10 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. 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.
[10] Battery life tested by HP using continuous FHD video playback, 1080p (1920x1080) resolution, 150 nits brightness, system audio level at 17%, player audio level at 100%, played full-screen from local storage, headphone attached, wireless on but not connected. Actual battery life will vary depending on configuration and maximum capacity will naturally decrease with time and usage.
[11] Wi-Fi® supporting gigabit speeds is achievable when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 160 MHz channels.
[12] Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited.
[13] Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 (802.11ax) is backwards compatible with prior 802.11 specs. The specifications for Wi-Fi 6 are draft and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other Wi-Fi 6 devices. Only available in countries where 802.11ax is supported.
[16] Wi-Fi 6 (802.11ax) is not supported in Ukraine, Russia, and Indonesia where Wi-Fi settings will be optimized to local regulatory requirements (802.11ac).
[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.
[20] SuperSpeed USB 20Gbps is not available.
[22] Reverting to LastPass basic after 30 days.
[24] Must activate within 180 days of Windows activation.
[27] Based on U.S. EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. EPEAT® status varies by country. Visit www.epeat.net for more information.
[39] Percentage of ocean-bound plastic contained in each component varies by product.
[40] Percentage of recycled metal varies by product.
[41] Keyboard keycap contains post-consumer recycled plastic. Percentage of Post consumer recycled contained in each component varies by product.

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