ProductSheet

HP Envy Laptop 16-h1023dx (7Z0P3UA)

Power, mobility, and seamless creativity anywhere

Experience seamless connectivity with the HP Envy 16". Combine the creative power of your devices and enjoy the ultimate color accuracy on a 16" display. Plus, with the Intel® Processor[1], it can handle what you throw at it. Look and sound your best on video calls with a 5MP camera[2] with Auto Frame, plus AI Noise Reduction.



Help protect our shared future
Because better feels better, we've included ocean-bound plastics and recycled aluminum[3] in this PC design.

Powerful tools for creating
Experience the ultimate color accuracy on a 16" screen and power from the Intel® Processor[1].

Look your best on video calls
Experience clear video chats with AI Noise Reduction, and a 5MP camera[2] with Auto Frame plus a privacy shutter.

Featuring

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. [4]

Extend beyond performance to let your PC do even more at once
Offering more than just a performance score. 13th Gen Intel® Core™ Processors advance real-world computing and deliver more ultra-efficient multi-tasking. [5]

Exceptional experience, anywhere
The Intel® Evo™ platform brings together the perfect combination of performance, responsiveness, battery life and stunning visuals in a new class of laptops. These designs are verified by Intel for an exceptional laptop experience, anywhere. [6]

Eyesafe® Certified Display
Eyesafe® certified displays meet TÜV low blue light requirements and Eyesafe® standards for protecting your eyes from harmful blue light without distorting colors to reduce eyestrain when working for long periods of time.

100% sRGB
Showcase your creations in all their colors on the 100% sRGB display for maximum color broadness and accuracy.

Specifications

Operating system	Windows 11 Home
Product color	Natural silver aluminum
Processor family	13th Generation Intel® Core™ i9 processor
Processor	Intel® Core™ i9-13900H (up to 5.4 GHz with Intel® Turbo Boost Technology, 24 MB L3 cache, 14 cores, 20 threads) [6,7]
Chipset	Intel® integrated SoC
Memory	16 GB DDR5-5200 MHz RAM (2 x 8 GB)
Internal Storage	1 TB PCIe® Gen4 NVMe™ TLC M.2 SSD
Product design	Sandblasted, anodized finish
Graphics	Discrete
Graphics (discrete)	NVIDIA® GeForce RTX™ 4060 Laptop GPU (8 GB GDDR6 dedicated)
Graphics	Integrated
Graphics (integrated)	Intel® Iris® Xᵉ Graphics
Display	40.6 cm (16") diagonal, WQXGA (2560 x 1600), multitouch-enabled, 120 Hz, IPS, edge-to-edge glass, micro-edge, Low Blue Light, 400 nits, 100% sRGB
Display	16" diagonal, WQXGA (2560 x 1600), multitouch-enabled, 120 Hz, IPS, edge-to-edge glass, micro-edge, Low Blue Light, 400 nits, 100% sRGB
Display size (diagonal)	40.6 cm (16")
Display size (diagonal)	16"
Audio	Audio by Bang & Olufsen; Quad speakers; HP Audio Boost
Minimum dimensions (W x D x H)	35.74 x 25.24 x 1.99 cm
Minimum dimensions (W x D x H)	14.07 x 9.94 x 0.78 in
Weight	Starting at 2.34 kg
Weight	Starting at 5.17 lb
Keyboard	Full-size, backlit, natural silver keyboard
Pointing device	HP Imagepad
Input devices	Accelerometer; Ambient light sensor; IR thermal sensor
Camera	HP True Vision 5MP IR camera with camera shutter, temporal noise reduction and integrated dual array digital microphones
Ports	1 USB Type-A 10Gbps signaling rate; 1 USB Type-A 10Gbps signaling rate (HP Sleep and Charge); 2 Thunderbolt™ 4 with USB Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4, HP Sleep and Charge); 1 HDMI 2.1; 1 AC smart pin; 1 headphone/microphone combo [19,42]
Expansion slots	1 microSD media card reader
Package dimensions (W x D x H)	6.9 x 59.8 x 34.5 cm
Package weight	3.71 kg
Wireless	Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card (supporting gigabit data rate)
Power supply type	200 W Smart AC power adapter
Battery type	6-cell, 83 Wh Li-ion polymer *([23])*
Battery life	Up to 10 hours and 15 minutes [3]
Battery recharge time	Supports battery fast charge: approximately 50% in 30 minutes [5]
Ecolabels	EPEAT® Gold registered
Energy star certified	ENERGY STAR® certified
Sustainable impact specifications	Ocean-bound plastic in bezel, speaker enclosure(s) and hinge cap(s); Recycled metal in cover, keyboard frame and base; Keyboard keycaps and scissors contain post-consumer recycled plastic
Security management	All-in-One keyboard; Trusted Platform Module (Firmware TPM) support
Software included	McAfee LiveSafe™
Software - Productivity & finance	1 month trial for new Microsoft 365 customers [24]
Cloud service	25 GB Dropbox storage for 12 months [1]
UPC number	197497073423

Top Recommended Displays, Accessories and Services

No Top Recommended Displays, Accessories and Services

Messaging Footnotes

[1] Multi-core is designed to improve the performance of certain software products. Not all customers or software applications will necessarily benefit from the 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.

[2] Features may require software or other 3rd party applications to provide the described functionality. Internet service required and not included.

[3] Laptops manufactured with recycled ocean-bound plastic material in product speaker enclosures and bezel, recycled aluminum material in product cover and post-consumer recycled plastic in the keyboard caps. Percent of recycled materials contained in each component varies by product.

[4] 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.

[5] 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.

[6] Intel and Core are trademarks of Intel Corporation in the U.S. and other countries.

Technical Specifications Footnotes

[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. 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.

[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.

[42] For optimal performance and battery chargeability while gaming and rendering, use the power adapter that ships with the PC. You can use the 100W/20V Type-C adapter or power bank when running light loading tasks. System-off charging is only supported on 20V Type-C adapter or power bank.

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