

HP Pavilion Gaming Laptop 17-cd1020nc



For multiplayer and multitaskers

Sacrifice nothing with the thin and powerful HP Pavilion Gaming Laptop. Experience high-grade graphics and processing power for gaming and multitasking, plus improved thermal cooling for overall performance and stability. Immerse yourself in the game with a narrow bezel display and custom-tuned audio. The perfect balance between work and play, so you can do it all.



*Product image may differ from actual product



Power your day. Power your play.

Take on anything and everything with a 10th generation Intel® Core™ processor¹ and NVIDIA® GeForce® graphics. A high resolution display with fast refresh rate delivers smooth gameplay visuals, while also bringing entertainment and content to life.



Game harder for longer

The HP Pavilion Gaming Laptop is equipped with a dual fan system for enhanced thermal cooling. Wide rear corner vents and additional air inlets maximize airflow to optimize your overall performance and stability, keeping the machine cool during extended usage.



Bold, immersive design

Get lost in the game. A sleek narrow bezel display provides a maximum viewing experience while the front-firing speakers with Audio by B&O deliver powerful, custom-tuned sound.



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Featuring

Windows 10

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

10th Generation Intel® Core™ processor

Experience power and responsive performance to boost your productivity. Enjoy immersive entertainment and game, stream and create content with accelerated performance.³

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.⁴

144 Hz FHD anti-glare display

Reduce frustrating lag and image ghosting with a display that combines a 144 Hz refresh rate, G-Sync support, and a 1080p resolution for smooth, crisp gameplay.⁵

PCIe SSD storage

Boot up in seconds with lightning fast speed with up to 512 GB PCIe SSD storage.

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 5.⁶

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.

SuperSpeed USB Type-C® 10Gbps signaling data rate

Plug in your external storage with this SuperSpeed USB Type-C® port, featuring 10Gbps signaling data rate. And it's reversible, so you never have to worry about plugging in upside down.⁷

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.⁸

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.

Backlit keyboard with integrated numeric pad

Keep going even in dimly lit rooms or aboard red-eye flights. With an illuminated keyboard and integrated numeric pad, you can type comfortably in more environments.

McAfee® LiveSafe™

Protect your operating system with a free 30-day McAfee® LiveSafe™ subscription.⁹

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.¹⁰

OMEN Gaming Hub

A single touch-point for all HP gaming systems. System Vitals dynamically display your key metrics for optimal performance, while Network Booster sends gaming network traffic to the front of the line.

HP 3D DriveGuard

Your PC's data stays safe from accidental bumps and bruises with HP 3D DriveGuard. It senses motion and locks your spinning hard drive, so a single bump won't delete your entire digital life.

ExpressVPN

Hide your IP address and encrypt your network data so no one can see what you're doing. Reduce the threat of hacking even when browsing on public Wi-Fi.¹¹

OMEN Gaming Hub

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Enhanced thermal solution

The latest in heat management brings you an enhanced heat-pipe design, stabilizing your work and play in a cooling environment.¹⁴

Narrow bezel display

By squeezing a larger screen into a smaller frame, this narrow bezel optimizes your display's appearance with an efficient design.

Sleek design

Easily take this thin and light PC from room to room or on the road. When your PC goes wherever you go, staying productive and entertained has never been easier.

A truly powerful audio experience

With HP Dual Speakers, HP Audio Boost, and custom tuning by the experts at B&O, you can experience rich, authentic audio. Let the sound move you.

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 45 minutes.¹⁵

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Specifications

Performance

Operating system

Windows 10 Home 64

Processor

Intel® Core™ i5-10300H (2.5 GHz base frequency, up to 4.5 GHz with Intel® Turbo Boost Technology, 8 MB L3 cache, 4 cores)^{6,7}

Processor family: 10th Generation Intel® Core™ i5 processor

Chipset

Intel® HM470

Memory

16 GB DDR4-2933 MHz RAM (2 x 8 GB)

Transfer rates up to 2933 MT/s.

Number of User-accessible Memory Slots: 2

Storage

512 GB PCIe® NVMe™ M.2 SSD

Optical drive not included

Graphics

Discrete: NVIDIA® GeForce® GTX 1650 Ti (4 GB GDDR6 dedicated) ;

Powered by NVIDIA Turing™ GPU architecture

Audio

Audio by B&O; Dual speakers; HP Audio Boost 1.0

Display

43.9 cm (17.3") diagonal, FHD (1920 x 1080), 144 Hz, IPS, anti-glare, 250 nits, 45% NTSC¹⁷

Screen-to-body ratio

79.9%¹⁸

Power

150 W Smart AC power adapter;

Battery type

3-cell, 52.5 Wh Li-ion polymer;

215 g;

Battery and Power

Up to 6 hours and 15 minutes³;

Supports battery fast charge: approximately 50% in 45 minutes⁵

Maximum battery life video playback

Up to 7 hours and 15 minutes¹⁰

Connectivity

Network interface

Integrated 10/100/1000 GbE LAN

Wireless connectivity

Intel® Wi-Fi 6 AX201 (2x2) and Bluetooth® 5 combo (Supporting Gigabit data rate) ^{11,12,13,16}

Miracast compatible; MU-MIMO supported

Ports

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); 2

SuperSpeed USB Type-A 5Gbps signaling rate; 1 HDMI 2.0; 1 RJ-45; 1 AC smart pin; 1

headphone/microphone combo

1 multi-format SD media card reader

Webcam

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

Design

Product color

Shadow black, chrome logo

Paint finish

Software

HP apps

HP 3D DriveGuard; HP Audio Switch; HP CoolSense; HP JumpStart; HP Support Assistant;

OMEN Gaming Hub

Software

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: 3Z429EA #BCM

Ecolabels

ENERGY STAR® certified; EPEAT® Silver registered

Weight

Starting at 2.75 kg;

Packed: 4 kg

Weight Note: Weight varies by configuration

Dimensions

40.5 x 28.2 x 2.5 cm;

Packed: 6.9 x 59.8 x 34.5 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, ghost white backlit, shadow black keyboard with numeric keypad

HP Imagepad with multi-touch gesture support; Precision Touchpad Support

Security management

Fingerprint reader not available

Sensors

Accelerometer

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Recommended accessories

* Not included.



HP Pavilion Gaming Headset 400
4BX31AA



HP Pavilion Gaming Mouse 300
4PH30AA



3-year return to depot
UK190E

Warranty services*

Key Selling Points Footnotes

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. Intel's numbering, branding and/or naming is not a measurement of higher performance.

Feature Messaging Footnotes

- 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 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. Internet service required and not included. 4K content required to view full 4K images. Graphics output may be limited based on the maximum resolution of the display.
- ⁴ Full high-definition (FHD) content is required to view FHD images.
- ⁵ All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.
- ⁶ 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.
- ⁷ Actual throughput may vary. USB Type-C[®] and USB-C[®] are trademarks of USB Implementers Forum.
- ⁸ Features may require software or other 3rd party applications to provide the described functionality.
- ⁹ Internet service required and not included. Subscription required after 30 days.
- ¹⁰ 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.
- ¹¹ Free 30-day trial, switch to a paid service at the end of the trial period. Each paid subscription grants you one (1) license to use on three (3) different devices at any given time. See www.expressvpn.com for more details.
- ¹⁴ Thermal solution varies by configuration.
- ¹⁵ Recharges your battery up to 50% within 45 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.

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 45 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).
- ¹⁷ All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.
- ¹⁸ Percent of active plus nonactive viewing area to active viewing area plus border. Measure with lid vertical to the desk.
- ²² Reverting to LastPass basic after 30 days.
- ²⁴ Must activate within 180 days of Windows activation.

