Datasheet

HP Pavilion Gaming Laptop 15-ec1008na

Game ready. Performance ready.

Sacrifice nothing with the thin and powerful HP Pavilion Gaming 39.6 cm (15.6") 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 micro-edge bezel display and custom-tuned audio. The perfect balance between work and play, so you can do it all.

Power to do it all
Take on everything with an AMD Ryzen™ 4000 Series Mobile high performance processor and NVIDIA® graphics. A Full HD resolution display with fast refresh rate delivers smooth gameplay visuals, while also bringing entertainment and content to life.

Stay in the game
Game harder for longer on a laptop equipped with a dual fan system for enhanced thermal cooling[1]. A wide rear corner vent and enlarged air inlets maximize airflow to optimize your overall performance and stability, keeping the machine cool during extended usage.

Daring design
Get lost in the game. A sleek micro-edge 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]

AMD Ryzen™ 4000 H-Series Mobile Processor with Radeon™ Graphics
For uncompromising performance for gaming and content creation, Ryzen™ 4000 H-Series Mobile processors are the new standard for pro-level performance in innovative, new, thin and light laptops.[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]

Anti-glare panel
Enjoy the sun and your favorite content with this anti-glare panel. Non-reflective and low gloss means you'll get less glare while you're outside.

DDR4 RAM
Designed to run more efficiently and more reliably at faster speeds, DDR4 is the future of RAM. With its higher bandwidth, everything from multi-tasking to playing games gets a performance boost.

PCIe SSD storage
Boot up in seconds with lightning fast speed with up to 256 GB PCIe SSD storage.

NVIDIA® GeForce® GTX 1650 graphics
With the all-new NVIDIA Turing™ architecture, gaming and streaming will never be the same. Get all the power you need for fast, smooth, power-efficient performance from NVIDIA® GeForce® GTX 1650.

SuperSpeed USB Type-C® 5Gbps signaling data rate
Plug in your external storage with this Superspeed USB Type-C® port, featuring 5Gbps signaling data rate. And it's reversible, so you never have to worry about plugging in upside down.[5]

HP TrueVision HD Camera
Video chat in vibrant clarity, even in low light and make every conversation a face-to-face experience for a better way to stay in touch.[6]

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.[7]

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]

OMEN Command Center
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.

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]

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]

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.

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 45 minutes.[15]

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Specifications

Performance

Operating system
Windows 10 Home 64
Processor
AMD Ryzen™ 5 4600H (3.0 GHz base clock, up to 4.0 GHz max boost clock, 3 MB L2 cache, 6 cores)[6,7]
Processor family: AMD Ryzen™ 5 processor
Chipset
AMD Integrated SoC
Memory
8 GB DDR4-3200 SDRAM (2 x 4 GB)
Transfer rates up to 3200 MT/s.
Storage
256 GB PCIe® NVMe™ M.2 SSD
Optical drive not included
Dropbox[1]
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
Display
39.6 cm (15.6") diagonal FHD, IPS, anti-glare, micro-edge, WLED-backlit, 250 nits, 45% NTSC (1920 x 1080)[17]
Screen-to-body ratio
79%[18]
Power
150 W Smart AC power adapter;
Battery type
3-cell, 52.5 Wh Li-ion;
210 g;
Battery and Power
Up to 8 hours and 15 minutes[3];
Supports battery fast charge: approximately 50% in 45 minutes[5]
Maximum battery life video playback
Up to 11 hours[10]

Connectivity

Network interface
Integrated 10/100/1000 GbE LAN
Wireless connectivity
Realtek 802.11 b/g/n/ac (2x2) and Bluetooth® 5 combo [14]
MU-MIMO supported; Miracast compatible
Ports
1 SuperSpeed USB Type-C® 5Gbps signaling rate; 1 SuperSpeed USB Type-A 5Gbps signaling rate; 1 USB 2.0 Type-A (HP Sleep and Charge); 1 HDMI 2.0; 1 RJ-45; 1 AC smart pin; 1 headphone/microphone combo
1 multi-format SD media card reader
Webcam
HP TrueVision HD Camera with integrated dual array digital microphone

Design

Product color
Shadow black, chrome logo
Paint finish

Software

HP apps
OMEN Command Center; HP 3D DriveGuard; HP Audio Switch; HP CoolSense; HP JumpStart; HP Support Assistant
Software
Alexa; Netflix; ExpressVPN (30 day free trial); LastPass Premium (30 day free trial);
1 month trial for new Microsoft Office 365 customers
Service & support
McAfee LiveSafe™ [2]

Additional information

Part Number
P/N: 1D5F9EA #ABU
UPC/EAN code: 195122277970
Energy efficiency compliance
ENERGY STAR® certified; EPEAT® Silver registered
Weight
Starting at 1.98 kg;
Packed: 2.93 kg
Weight Note: Weight varies by configuration
Dimensions
36 x 25.7 x 2.35 cm;
Packed: 6.9 x 52 x 30.5 cm
Dimension Note: Dimensions vary by configuration
Warranty
1 year limited parts, labour, and pickup and return service; You can expand the warranty coverage of your product to reach up to 3 years in total; for more information go to the "Options and accessories" web section on hp.com product pages.
Keyboard
Full-size, ghost white backlit 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 Pad 400
5JH72AA

HP Pavilion Gaming Backpack 500
6EU58AA

Warranty services*

3-year pickup and return
U4819E

Key Selling Points Footnotes

[1] Thermal solution varies by configuration.

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. AMD's numbering is not a measurement of clock speed. Internet access required and not included
[4] Full high-definition (FHD) content is required to view FHD images.
[5] Actual throughput may vary. USB Type-C® and USB-C® are trademarks of USB Implementers Forum.
[6] Features may require software or other 3rd party applications to provide the described functionality.
[7] Internet service required and not included. Subscription required after 30 days.
[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.
[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. 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.
[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.
[14] Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 5 (802.11ac) is backwards compatible with prior Wi-Fi 5 specs.
[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.

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