HP Pavilion - 15-ec1010nr (3G420UA)

Active as of 5/14/2020

Overview

Game Ready. Performance Ready.

Sacrifice nothing with the thin and powerful HP Pavilion Gaming 15 Laptop. Experience high-grade graphics and processing power for gaming and multitasking, plus improved thermal cooling[1] 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.

The thin and powerful HP Pavilion Gaming 15 Laptop lets you experience high-grade graphics and processing power that meets your gaming and multitasking needs.

List Price

$979.15

Power to do it all

Take on everything with a high performance processor and advanced graphics. A Full HD resolution display with fast refresh rate delivers smooth gameplay visuals, while also bringing entertainment and content to life.

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.

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.

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]

`1080p`

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.

`8 GB`

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.

`SSD`

PCIe SSD storage

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

Specifications

Operating system
Windows 10 Home 64 [26]

Processor family
AMD Ryzen™ 5 processor

Processor
AMD Ryzen™ 5 4600H (3.0 GHz base clock, up to 4.0 GHz max boost clock, 3 MB L2 cache, 6 cores) [21, 22]

MDA key selling point
Windows 10 Home or other operating systems available

Memory
8 GB DDR4-3200 SDRAM (1 x 8 GB)

Memory layout (slots & size)
2 x 4 GB

Internal Storage
512 GB PCIe® NVMe™ M.2 SSD

Cloud service
Dropbox

Optical drive
Optical drive not included

Display

15.6" diagonal, FHD (1920 x 1080), IPS, anti-glare, 250 nits, 45% NTSC

Display size (diagonal)
15.6"

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

Expansion slots
1 multi-format SD media card reader

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

Audio features
Audio by B&O; Dual speakers

Pointing device
HP Imagepad with multi-touch gesture support

Keyboard
Full-size, acid green backlit, shadow black keyboard with numeric keypad

Input devices
Accelerometer

Wireless
Realtek RTL8822CE 802.11a/b/g/n/ac (2x2) Wi-Fi® and Bluetooth® 5 combo [13, 14]

Power supply type
150 W Smart AC power adapter

Battery type
3-cell, 52.5 Wh Li-ion

Energy efficiency
ENERGY STAR® certified; EPEAT® Silver registered

Product design
Paint finish

Product color
Shadow black, acid green chrome logo

Minimum dimensions (W x D x H)
14.17 x 10.12 x 0.93 in

Weight
4.37 lb

UPC number
194850691263

Package dimensions (W x D x H)
19.02 x 12.01 x 2.72 in

Package weight
6.46 lb

Software included
McAfee LiveSafe™

Pre-installed software
Netflix

Warranty
1 year limited hardware warranty (information at www.hp.com/support). 90 day phone support (from date of purchase). Complimentary chat support within warranty period (at www.hp.com/go/contacthp). [5, 6]

Overview

1   Thermal solution varies by configuration.
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.

Specifications

5   Internet service required and not included. Availability of public wireless access points limited.
6   Call 1.800.474.6836 or www.support.hp.com for more information on Care Packs available after 90 days. After 90 days, an incident fee may apply.
13   Wireless access point and Internet service required. Availability of public wireless access points limited. The specifications for the 802.11ac Wi-Fi are draft specifications and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the PC to communicate with other 802.11ac Wi-Fi devices.
14   Bluetooth® is a trademark owned by its proprietor and used by HP Inc. under license.
21   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. AMD and Radeon are trademarks of Advanced Micro Devices, Inc.
22   Max Boost clock frequency performance varies depending on hardware, software and overall system configuration.
26   Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers and/or software to take full advantage of Windows functionality. See http://www.microsoft.com.

Detailed Specifications

Additional information about HP
http://www.hp.com

Audio features
Audio by B&O; Dual speakers

Battery capacity
52.5

Battery capacity uom
Wh

Battery cells number
3

Battery life
Up to 12 hours and 30 minutes

Battery life footnote number
[7]

Battery life video playback
Up to 11 hours

Battery life video playback footnote number
[8]

Battery type
3-cell, 52.5 Wh Li-ion

Battery type
Li-ion polymer

Battery weight
210 g

Battery weight
7.4 oz

Bluetooth version
Bluetooth® 5

Brightness
250 nits

Cloud service
Dropbox

Cloud service footnote number
[5,20]

Code name
Duskers_20C1

Color gamut
45% NTSC

Copyright notice
© Copyright 2020 HP Development Company, L.P. The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

Dimensions (W x D x H) Note
Dimensions vary by configuration

Display
15.6" diagonal FHD display

Display
15.6" diagonal, FHD (1920 x 1080), IPS, anti-glare, 250 nits, 45% NTSC

Display bezel
micro-edge

Display brightness
250

Display brightness uom
nits

Display footnote number
[15,16]

Display panel technology
IPS

Display resolution (pixels)
1920 x 1080

Display resolution standard
FHD

Display size (diagonal)
15.6"

Display size (diagonal) uom
"

Display size (diagonal, imperial)
15.6

Display size (diagonal, metric)
39.6

Display size (diagonal, metric) uom
cm

Display surface treatment
anti-glare

ECC memory
No

Energy efficiency
ENERGY STAR® certified; EPEAT® Silver registered

Energy efficiency compliance footnote number
[1,2]

Expansion slots
1 multi-format SD media card reader

External I/O ports footnote number
[10,11]

Graphic card footnote number
[3]

Graphics
Discrete

Graphics (discrete)
NVIDIA® GeForce® GTX 1650 (4 GB GDDR6 dedicated)

Graphics card brand
NVIDIA®

Graphics card family
GeForce®

Graphics card memory size
4

Graphics card memory size uom
GB

Graphics card memory type
GDDR6

Graphics Note
Powered by NVIDIA Turing™ GPU architecture

Hard drive description footnote number
[18,19]

HP apps
HP Connection Optimizer; HP Audio Switch; HP BIOS Protection; HP JumpStart; OMEN Command Center; HP Support Assistant

HP apps footnote number
[5,24,25]

Image legal disclaimer
Product image may differ from actual product

Input devices
Accelerometer

Internal Storage
512 GB PCIe® NVMe™ M.2 SSD

Keyboard
Full-size, acid green backlit, shadow black keyboard with numeric keypad

Legal disclaimer
Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers and/or software to take full advantage of Windows functionality. See http://www.microsoft.com.

Legal tagline
HP recommends Windows 10 Pro.

MDA key selling point
Windows 10 Home or other operating systems available

Memory
8 GB DDR4-3200 SDRAM (1 x 8 GB)

Memory and storage
8 GB memory; 512 GB SSD storage

Memory layout (slots & size)
2 x 4 GB

Memory module type
DIMM

Memory Note
Transfer rates up to 3200 MT/s.

Memory size
8

Memory size uom
GB

Memory speed
3200

Memory speed uom
MHz

Memory type
DDR4

Minimum dimensions (W x D x H)
14.17 x 10.12 x 0.93 in

Minimum dimensions (W x D x H)
36 x 25.7 x 2.35 cm

Model Number
GTX 1650

Network interface
Integrated 10/100/1000 GbE LAN

Network interface footnote number
[12]

Number of memory slots
2

Number of User-accessible Memory Slots
2

Operating system
Windows 10 Home 64

Operating system footnote number
[26]

Optical drive
Optical drive not included

Package depth, imperial (extended size)
21.73

Package depth, imperial (most common size)
20.47

Package depth, imperial (smallest possible size)
19.01

Package depth, metric (extended size)
55.2

Package depth, metric (most common size)
52

Package depth, metric (smallest possible size)
48.3

Package dimensions (W x D x H)
19.02 x 12.01 x 2.72 in

Package dimensions (W x D x H)
48.3 x 30.5 x 6.9 cm

Package height, imperial (extended size)
12

Package height, imperial (most common size)
12

Package height, imperial (smallest possible size)
12

Package height, metric (extended size)
30.5

Package height, metric (most common size)
30.5

Package height, metric (smallest possible size)
30.5

Package weight
2.93 kg

Package weight
6.46 lb

Package width, imperial (extended size)
2.71

Package width, imperial (most common size)
2.71

Package width, imperial (smallest possible size)
2.71

Package width, metric (extended size)
6.9

Package width, metric (most common size)
6.9

Package width, metric (smallest possible size)
6.9

Packaging unit of measure (imperial)
in

Packaging unit of measure (metric)
cm

Pointing device
HP Imagepad with multi-touch gesture support

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

Power supply type
150 W Smart AC power adapter

Pre-installed software
Netflix

Pre-installed software footnote number
[5]

Processor
AMD Ryzen™ 5 4600H (3.0 GHz base clock, up to 4.0 GHz max boost clock, 3 MB L2 cache, 6 cores)

Processor base frequency
3.0

Processor base frequency uom
GHz

Processor Brand
AMD

Processor cache
8 MB L3

Processor core
6

Processor family
AMD Ryzen™ 5 processor

Processor family
Ryzen™ 5

Processor maximum frequency
4.0

Processor maximum frequency uom
GHz

Processor model
4600H

Processor name footnote number
[21,22]

Processor speed
2.9 GHz

Processor threads
12

Product brand name
HP

Product color
Shadow black, acid green chrome logo

Product design

Paint finish

Product language options
#ABA

Screen-to-body Ratio Footnote Number
[17]

Software footnote number
[23]

Software included
McAfee LiveSafe™

Storage capacity 01
512

Storage capacity uom 01
GB

Storage form factor 01
M.2

Storage interface 01
PCIe®

Storage interface protocol 01
NVMe™

Storage type
SSD

Storage type 01
SSD

Tech spec footnote
[1] ENERGY STAR and the ENERGY STAR mark are registered trademarks owned by the U.S. Environmental Protection Agency.

Tech spec footnote
[10] USB Type-C™ and USB-C™ are trademarks of USB Implementers Forum.

Tech spec footnote
[11] For best results with HP Sleep and Charge, use a USB charging protocol standard cable or cable adapter with an external device.

Tech spec footnote
[12] Actual speeds may vary.

Tech spec footnote
[13] Wireless access point and Internet service required. Availability of public wireless access points limited. The specifications for the 802.11ac Wi-Fi are draft specifications and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the PC to communicate with other 802.11ac Wi-Fi devices.

Tech spec footnote
[14] Bluetooth® is a trademark owned by its proprietor and used by HP Inc. under license.

Tech spec footnote
[15] All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

Tech spec footnote
[16] Full High Definition (FHD) content is required to view FHD images.

Tech spec footnote
[17] Percent of active plus nonactive viewing area to active viewing area plus border. Measure with lid vertical to the desk.

Tech spec footnote
[18] Actual formatted capacity is less. Portion of internal storage is reserved for preloaded content.

Tech spec footnote
[19] Based on HP internal testing using CrystalDiskMark benchmarking software. Performance is sequentially faster (read only) compared to traditional 5,400 rpm HDD.

Tech spec footnote

[2] EPEAT® Silver registered where applicable. EPEAT registration varies by country. See www.epeat.net for registration status by country. Search keyword generator on HP's 3rd party option store for solar generator accessories at www.hp.com/go/options .

Tech spec footnote

[20] 25GB of free online storage for six months 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.

Tech spec footnote

[21] 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. AMD and Radeon are trademarks of Advanced Micro Devices, Inc.

Tech spec footnote

[22] Max Boost clock frequency performance varies depending on hardware, software and overall system configuration.

Tech spec footnote

[23] Internet access required and not included. Subscription required after 30 days trial period. McAfee, LiveSafe and the McAfee logo are trademarks or registered trademarks of McAfee, Inc. in the United States and other countries.

Tech spec footnote

[24] Detects BIOS damage and recovers last settings.

Tech spec footnote

[25] For more information visit hp.com/go/hpsupportassistant [Link will vary outside of the U.S.] HP Support Assistant is available for Android and Windows based PCs.

Tech spec footnote

[26] Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers and/or software to take full advantage of Windows functionality. See http://www.microsoft.com.

Tech spec footnote

[3] NVIDIA, GeForce, Surround, and the NVIDIA logo are trademarks and/or registered trademarks of NVIDIA Corporation in the U.S. and other countries.

Tech spec footnote

[4] Weight and system dimensions may fluctuate due to configuration and manufacturing variances.

Tech spec footnote

[5] Internet service required and not included. Availability of public wireless access points limited.

Tech spec footnote

[6] Call 1.800.474.6836 or www.support.hp.com for more information on Care Packs available after 90 days. After 90 days, an incident fee may apply.

Tech spec footnote

[7] Windows 10 MM14 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 http://www.bapco.com for additional details.

Tech spec footnote

[8] 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.

Tech spec footnote

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

Touchscreen

No

Trademark information

All other trademarks are the property of their respective owners.

UPC number
194850691263

Warranty
1 year limited hardware warranty (information at www.hp.com/support). 90 day phone support (from date of purchase). Complimentary chat support within warranty period (at www.hp.com/go/contacthp).

Warranty footnote number
[5,6]

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

Webcam footnote number
[9]

Weight
1.98 kg

Weight
4.37 lb

Weight (imperial) footnote number
[4]

Weight (metric) footnote number
[4]

Weight note (metric)
Weight varies by configuration

Wireless
Realtek RTL8822CE 802.11a/b/g/n/ac (2x2) Wi-Fi® and Bluetooth® 5 combo

Wireless antenna
2x2

Wireless Model
RTL8822CE

Wireless Note
MU-MIMO supported

Wireless standard
802.11a/b/g/n/ac

Wireless supplier
Realtek

Wireless technologies footnote number
[13,14]