



HP Pavilion Gaming Laptop 17-cd1147ng (1B2J3EA)



Overview

For multiplayers 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.



Power your day. Power your play.

Take on anything and everything with a 10th generation Intel® Core™ processor[1] and NVIDIA® GeForce® graphics. A high resolution display with fast refresh rate delivers smooth gameplay visuals, while also bringing entertainment and content to life.



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.



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.

Features



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.^[2]



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.



Visibly brilliant detail

With 300 nits of brightness, view beautiful details, enhanced image quality, and distinct shades of color—even in bright lighting conditions.^[4]

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.^[3]



Highly accurate color

With the 100% sRGB color space, this HP display provides ideal color reproduction with minimal effort. Perfect for photos, videos—all your creative projects.^[4]

6 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.

[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.

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[3] Full high-definition (FHD) content is required to view FHD images.

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

Specifications

Operating system	FreeDOS
Product color	Shadow black, green chrome logo
Processor family	10th Generation Intel® Core™ i5 processor
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]
Chipset	Intel® HM470
Memory	16 GB DDR4-2933 SDRAM (2 x 8 GB)
Internal Storage	512 GB PCIe® NVMe™ M.2 SSD
Product design	Paint finish
Optical drive	Optical drive not included
Display	43.9 cm (17.3") diagonal, FHD (1920 x 1080), IPS, anti-glare, 300 nits, 100% sRGB
Display size (diagonal)	43.9 cm (17.3")
Audio features	Audio by B&O; Dual speakers; HP Audio Boost 1.0
Minimum dimensions (W x D x H)	40.5 x 28.2 x 2.5 cm (Dimensions vary by configuration)
Weight	Starting at 2.75 kg (Weight varies by configuration)
Keyboard	Full-size, acid green backlit, shadow black keyboard with numeric keypad
Pointing device	HP Imagepad with multi-touch gesture support; Precision Touchpad Support
Input devices	Accelerometer
Webcam	HP True Vision 720p HD camera with integrated dual array digital microphone
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
Expansion slots	1 multi-format SD media card reader
Package dimensions (W x D x H)	6.9 x 59.8 x 34.5 cm
Package weight	4 kg
Network interface	Integrated 10/100/1000 GbE LAN
Wireless	Intel® Wi-Fi 6 AX201 (2x2) and Bluetooth® 5 combo (Supporting Gigabit file transfer speeds) ^[11,12,13,16]
Power supply type	150 W Smart AC power adapter
Battery type	3-cell, 52.5 Wh Li-ion polymer

Battery life	Up to 6 hours and 15 minutes ^[3]
Battery recharge time	Supports battery fast charge: approximately 50% in 45 minutes ^[5]
Battery weight	215 g
UPC number	195122239565
Warranty	1 year limited parts, labour, and pickup and return service
Limited warranty coverage and exceptions	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.

Additional specifications

Additional information about HP	http://www.hp.com
Battery capacity	52.5
Battery capacity uom	Wh
Battery cells number	3
Battery life video playback	Up to 7 hours and 15 minutes
Battery type	Li-ion polymer
Bluetooth version	Bluetooth® 5
Brightness	300 nits
Color gamut	100% sRGB
Datasheet photo 1	AHID/5b64beb58364163453bd97445c6bc953b0fc2c38
Datasheet photo 2	AHID/4f0022b64ca38ac2de80bb4587fb28e222316e17
Datasheet photo 3	AHID/b02b72a898d671ef0aa046d5500432872012fcb3
Datasheet photo 4	AHID/41a919b0d1b2e5745a511072bf14e878ec2018cd
Datasheet photo 5	Publication logos/pc-carepack-logo.jpg
Display brightness	300
Display brightness uom	nits
Display panel technology	IPS
Display resolution (pixels)	1920 x 1080
Display resolution standard	FHD
Display size (diagonal) uom	"
Display size (diagonal, imperial)	17.3
Display size (diagonal, metric)	43.9
Display size (diagonal, metric) uom	cm
Display surface treatment	anti-glare
ECC memory	No
Fingerprint reader	Fingerprint reader not available
Graphics	Discrete
Graphics (discrete)	NVIDIA® GeForce® GTX 1650 Ti (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

MDA key selling point	Windows 10 Home or other operating systems available
Memory and storage	16 GB memory; 512 GB SSD storage
Memory layout (slots & size)	2 x 8 GB
Memory module type	DIMM
Memory size	16
Memory size uom	GB
Memory speed	2933
Memory speed uom	MHz
Memory type	DDR4
Model Number	GTX 1650 Ti
Number of User-accessible Memory Slots	2
Number of memory slots	2
Package depth, imperial (extended size)	23.54
Package depth, metric (extended size)	59.8
Package height, imperial (extended size)	13.58
Package height, metric (extended size)	34.5
Package width, imperial (extended size)	2.71
Package width, metric (extended size)	6.9
Packaging unit of measure (imperial)	in
Packaging unit of measure (metric)	cm
Processor Brand	Intel®
Processor base frequency	2.5
Processor base frequency uom	GHz
Processor cache	8 MB L3
Processor core	4
Processor family	Core™ i5
Processor frequency technology	Intel® Turbo Boost Technology
Processor generation	10th Generation
Processor maximum frequency	4.5
Processor maximum frequency uom	GHz

Processor model	10300H
Processor speed	2.5 GHz
Processor threads	8
Product brand name	HP
Product language options	#ABD
Service description	3-year pickup and return
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
Technology logo, print 7	Publication logos/Nvidia_Geforce_GTX_icon_new.jpg
Touchscreen	No
Wireless Model	Wi-Fi 6 AX201
Wireless antenna	2x2
Wireless standard	Wi-Fi 6
Wireless supplier	Intel®

[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.

[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).

Audio/Multimedia and Communication Devices

★ : Recommended

Speakers

HP Gaming Speakers X1000

8PB07AA ★

Headphones

OMEN Dyad Earbuds

8JE67AA ★

Headsets

HP X1000 Wireless Gaming Headset

7HC43AA ★

HP Bluetooth Headset 500

2J875AA

HP Earbuds Black Headset 150

X7B04AA

HP In-Ear Headset 150 (Marine Blue)

2AP91AA

HP Stereo Headset H2800 (Black w. Silk Gold)

2AP94AA

HP Stereo Headset H2800 (White w. Pike Silver)

2AP95AA

HP X1000 Wireless Gaming Headset

7HC42AA

OMEN Blast Headset

1A858AA

OMEN by HP Headset 800

1KF76AA

OMEN by HP Mindframe Prime Headset

6MF35AA

OMEN by HP Mindframe Prime Headset

6MF36AA

Omen X by HP Mindframe Headset

3XT27AA

obsolete

Cases and Covers

Backpacks

HP Pavilion Gaming Backpack 500

6EU58AA ★

OMEN by HP Gaming Backpack

4YJ80AA ★

HP 17.3 in OMEN Gaming Backpack

K5Q03AA ★

Cases

OMEN Transceptor 17 Duffel Bag

7MT82AA ★

HP 43.94 cm (17.3") Signature Slim Topload Case

TOE19AA

HP 43.94 cm (17.3") Value Topload Case

TOE18AA

Covers

HP 43.94 cm (17.3") Carry Sleeve Black/Gold

3XD37AA

OMEN Transceptor 17 Sleeve

3J045AA

Keyboards/Mice and Input Devices

Keyboards

HP Pavilion Gaming Keyboard 800

5JS06AA ★

HP Pavilion Gaming Keyboard 550

9LY71AA ★

OMEN by HP Encoder Keyboard

6YW75AA ★

HP K1500 Keyboard

H3C52AA

HP K2500 Wireless Keyboard

E5E78AA

HP Keyboard 100

2UN30AA

HP Pavilion Wired Keyboard 300

4CE96AA

HP Pavilion Wireless Keyboard 600 Black

4CE98AA

HP Pavilion Wireless Keyboard 600 White

4CF02AA

OMEN Spacer Wireless TKL Keyboard

9BU31AA

OMEN by HP Encoder Keyboard

6YW76AA

OMEN by HP Keyboard 1100

1MY13AA

obsolete

OMEN by HP Sequencer Keyboard

2VN99AA

Mice

HP Pavilion Gaming Mouse 300

4PH30AA ★

HP Pavilion Gaming Mouse Pad 300

4PZ84AA ★

HP Pavilion Gaming Mouse 200

5JS07AA ★

HP Pavilion Gaming Mouse Pad 400

5JH72AA ★

OMEN Vector Mouse

8BC53AA ★

OMEN by HP Mouse Pad 300

1MY15AA ★

HP Bluetooth Travel Mouse

6SP25AA

HP Bluetooth® Mouse Z5000

2HW67AA

HP Bluetooth® Mouse Z5000

E5C13AA

HP Dual Mode Black Mouse 300

6CR71AA

HP ENVY Rechargeable Mouse 500

2LX92AA

HP Elite Presenter Mouse

3YF38AA

HP Spectre Rechargeable Mouse 700

4YH34AA

HP Spectre Rechargeable Mouse 700 (Bordeaux Burgundy)

5VD59AA

HP Spectre Rechargeable Mouse 700 (Luxe Cooper)

3NZ70AA

HP Spectre Rechargeable Mouse 700 (Turbo Silver)	3NZ71AA	
HP Wired Mouse 1000	4QM14AA	
HP Wireless Mouse 200	X6W31AA	
HP Wireless Mouse 200 (Empress Red)	2HU82AA	
HP Wireless Mouse 200 (Pike Silver)	2HU84AA	
HP Wireless Mouse 200 (Silk Gold)	2HU83AA	
HP Wireless Mouse 220	3FV66AA	
HP Wireless Mouse 220 (Lumiere Blue)	7KX11AA	
HP Wireless Mouse 220 (Snow White)	7KX12AA	
HP Wireless Mouse 220 (Sunset Red)	7KX10AA	
HP Wireless Mouse 250	3FV67AA	
HP Wireless Mouse X200	6VY95AA	
HP Wireless Mouse Z3700	7UH85AA	
HP Wireless Mouse Z3700	7UH86AA	obsolete
HP Wireless Mouse Z3700	7UH88AA	
HP Wireless Mouse Z3700	7UH89AA	
HP Wireless Mouse Z3700 - White/Pink	4VY82AA	
HP Wireless Mouse Z4000	H5N61AA	
HP X1500 Mouse	H4K66AA	
HP X220 Backlit Gaming Mouse	8DX48AA	
HP X4500 Wireless (Metal Black) Mouse	H2W26AA	
HP X500 Wired Mouse	E5E76AA	
HP X900 Wired Mouse	V1S46AA	obsolete
HP Z3700 Black Wireless Mouse	V0L79AA	
HP Z3700 Blue Wireless Mouse	V0L81AA	
HP Z3700 Ceramic White Wireless Mouse	171D8AA	
HP Z3700 Forest Teal Wireless Mouse	171D9AA	
HP Z3700 Gold Wireless Mouse	X7Q43AA	
HP Z3700 Red Wireless Mouse	V0L82AA	
HP Z3700 Silver Wireless Mouse	X7Q44AA	
HP Z3700 White Wireless Mouse	V0L80AA	
HP Z5000 Dark Ash Silver Wireless Mouse	W2Q00AA	
OMEN Vector Essential Mouse	8BC52AA	
OMEN Vector Wireless Mouse	2B349AA	
OMEN by HP Hard Mouse Pad 200	2VP01AA	
OMEN by HP Mouse 400	3ML38AA	obsolete

OMEN by HP Mouse 600	1KF75AA	obsolete
OMEN by HP Mouse Pad 100	1MY14AA	
OMEN by HP Mouse Pad 200	3ML37AA	
OMEN by HP Outpost Mousepad	6CM14AA	
OMEN by HP Photon Wireless Mouse	6CL96AA	
OMEN by HP Reactor Mouse	2VP02AA	
OMEN by HP Reactor Mouse	7ZF19AA	obsolete

Keyboard and Mouse Kits

HP C2710 Combo Keyboard	M7P30AA
HP Pavilion Keyboard and Mouse 200	9DF28AA
HP Pavilion Wired Keyboard and Mouse 400	4CE97AA
HP Pavilion Wireless Keyboard and Mouse 800	4CF00AA
HP Pavilion Wireless Keyboard and Mouse 800 (Black)	4CE99AA
HP Wired Combo C2500	H3C53AA
HP Wired Keyboard and Mouse 160	6HD76AA
HP Wireless Keyboard and Mouse 300	3ML04AA

Networking Products

Switches/Hubs/Routers/Converters/Repeaters

HP ENVY USB-C Hub	5LX63AA
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Graphics Cards

Graphics Connectors/Adapters

HP HDMI to VGA Cable Adapter	X1B84AA
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Batteries/Chargers/Adapters

Power Adapters

HP Pavilion USB-C™ to HDMI 2.0 Adapter	2PC54AA
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Cables/Cable Kits/Cable Adapters

Cable Adapters

HP Spectre USB-C Travel Dock	2SR85AA
HP USB Type-C to RJ45 Adapter	V8Y76AA

HP USB-C to HDMI/ USB 3.0/ USB-C	1BG94AA	
HP USB-C to USB-A Hub	Z8W90AA	obsolete
HP USB-C to VGA Display Adapter	P7Z54AA	

PC Drives and Storage

PC DVD+RW Drives

HP USB External DVDRW Drive	F6V97AA	
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Application Software

★ : Recommended

Desktop Application Software

Microsoft Office 2016 Home and Business Software	X7Q47AA	obsolete
Microsoft Office 2016 Home and Student Software	X7Q46AA	obsolete

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