



HP Pavilion Gaming Laptop 15-ec2007nu (43R50EA)

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.



Power to do it all

Take on everything with a high performance AMD processor and advanced graphics. A FHD 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

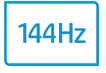
Game harder for longer on a laptop equipped with a dual fan system for enhanced thermal cooling^[1]. A wide rear vent and enlarged air inlets maximize airflow to optimize your overall performance and stability, keeping the machine cool during extended usage. Up your game with customizable performance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

Features



AMD Ryzen™ 5000 H-Series Mobile Processors

Now you can enjoy elite gaming performance on a thin and light notebook with amazing battery life, thanks to the new AMD Ryzen™ 5000 H-Series Mobile Processors. Never compromise on your gaming laptop again.^[2]



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.^[4]

Effortlessly connected

Enjoy ultra-fast gigabit data rate with a Wi-Fi 6 (2x2) and Bluetooth® 5.2 combo^[5]



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]



PCIe SSD storage

Boot up in seconds with lightning fast speed with up to 1 TB PCIe SSD storage.



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.

[1] Thermal solution varies by configuration.

[2] 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.

[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.

[5] Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Requires a wireless router, sold separately, that supports 80MHz channels. 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.

Specifications

Operating system	FreeDOS
Product color	Shadow black, chrome logo
Processor family	AMD Ryzen™ 7 processor
Processor	AMD Ryzen™ 7 5800H (up to 4.4 GHz max boost clock, 16 MB L3 cache, 8 cores, 16 threads) ^[6,7]
Chipset	AMD Integrated SoC
Memory	16 GB DDR4-3200 MHz RAM (2 x 8 GB)
Memory Slots	2 SODIMM memory slots
Internal Storage	1 TB PCIe® NVMe™ TLC M.2 SSD
Product design	Paint finish
Optical drive	Optical drive not included
Graphics	Integrated
Graphics (integrated)	AMD Radeon™ Graphics
Display	39.6 cm (15.6") diagonal, FHD (1920 x 1080), 144 Hz, IPS, micro-edge, anti-glare, 250 nits, 45% NTSC
Display	15.6" diagonal, FHD (1920 x 1080), 144 Hz, IPS, micro-edge, anti-glare, 250 nits, 45% NTSC
Display size (diagonal)	39.6 cm (15.6")
Display size (diagonal)	15.6"
Audio features	Audio by B&O; Dual speakers; HP Audio Boost
Minimum dimensions (W x D x H)	36 x 25.7 x 2.35 cm <i>(Dimensions vary by configuration)</i>
Minimum dimensions (W x D x H)	14.17 x 10.12 x 0.93 in
Weight	Starting at 1.98 kg <i>(Weight varies by configuration)</i>
Weight	Starting at 4.37 lb
Keyboard	Full-size, ghost white 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 microphones
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 ^[19]
Expansion slots	1 multi-format SD media card reader
Package dimensions (W x D x H)	6.9 x 52 x 30.5 cm

Package weight	2.93 kg
Network interface	Integrated 10/100/1000 GbE LAN
Wireless	Realtek Wi-Fi 6 (2x2) and Bluetooth® 5.2 combo (Supporting Gigabit data rate)
Power supply type	200 W Smart AC power adapter
Battery type	3-cell, 52.5 Wh Li-ion polymer
Battery life	Up to 6 hours ^[3]
Battery recharge time	Supports battery fast charge: approximately 50% in 45 minutes ^[5]
Battery weight	0.46 lb
Battery weight	210 g
UPC number	195908899440

Additional specifications

Battery capacity	52.5
Battery capacity uom	Wh
Battery cells number	3
Battery life	Long Life
Battery life video playback	Up to 9 hours and 15 minutes
Battery type	Li-ion polymer
Bluetooth version	Bluetooth® 5.2
Brightness	250 nits
Color	Shadow black
Color gamut	45% NTSC
Display	15.6" diagonal FHD display
Display	39.6 cm (15.6") diagonal FHD display
Display bezel	micro-edge
Display brightness	250
Display brightness uom	nits
Display panel technology	IPS
Display refresh rate	144
Display refresh rate uom	Hz
Display resolution (pixels)	1920 x 1080
Display resolution standard	FHD
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	non-ECC
Fingerprint reader	Fingerprint reader not available
Graphics	Discrete
Graphics (discrete)	NVIDIA® GeForce RTX™ 3050 Laptop GPU (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
Maximum Memory	Supports up to 16 GB max system memory
Memory and storage	16 GB memory; 1 TB SSD storage
Memory layout (slots & size)	2 x 8 GB
Memory module type	DIMM
Memory size	16
Memory size uom	GB
Memory speed	3200
Memory speed uom	MHz
Memory type	DDR4
Model Number	RTX™ 3050
Number of User-accessible Memory Slots	2
Number of memory slots	2
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)	2.71 x 20.47 x 12 in
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	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
Processor Brand	AMD
Processor base frequency	3.2
Processor base frequency uom	GHz
Processor cache	16 MB L3
Processor core	8
Processor family	Ryzen™ 7
Processor maximum frequency	4.4
Processor maximum frequency uom	GHz
Processor model	5800H
Processor threads	16
Product brand name	HP
Storage capacity 01	1
Storage capacity uom 01	TB
Storage form factor 01	M.2
Storage interface 01	PCIe®
Storage interface protocol 01	NVMe™
Storage memory technology 01	TLC
Storage type	SSD
Storage type 01	SSD
Touchscreen	No
Wireless antenna	2x2
Wireless standard	Wi-Fi 6

[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.

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

Accessories

Cases and Covers

★ : Recommended

Backpacks

HP Pavilion Gaming Backpack 500	6EU58AA ★
HP Pavilion Gaming Backpack 300	6EU56AA ★
HP 15.6 Classic Backpack	1FK05AA
HP 15.6 Duotone Backpack	4QF96AA
HP 15.6 Duotone Backpack	4QF97AA
HP 15.6 Signature II Backpack	3K006AA
HP 15.6 in Black Odyssey Backpack	L8J88AA
HP 15.6 in Green/Gray Odyssey Backpack	L8J89AA
HP 15.6 in Value Backpack	4WH53AA
HP 15.6 in Value Backpack	KOB39AA
HP 15.6 in Value Topload Case	KOB38AA
HP 17.3 in OMEN Gaming Backpack	K5Q03AA
HP Active Backpack	1LU22AA
HP Active Backpack	1LU23AA
HP Commuter Backpack	5EE91AA
HP Commuter Backpack	5EE92AA
HP ENVY Urban 15 Backpack	3KJ72AA
HP ENVY Urban 15 Backpack	7XG56AA
HP ENVY Urban 15 Briefcase	3KJ73AA
HP ENVY Urban 15.6 Briefcase	7XG57AA
HP Lightweight 15.6 Blue/Gray Backpack	18H48AA
HP Lightweight 15.6 Laptop Backpack	1G6D3AA
HP Pavilion Gaming Backpack 400	6EU57AA
HP Pavilion Tech Backpack	5EE99AA
HP Prelude 15.6-inch Backpack	2Z8P3AA
HP Prelude Backpack 15.6	1E7D6AA
HP Renew Backpack	1A211AA
HP Renew Backpack	1A212AA
HP Renew Travel 15.6-inch Backpack	2Z8A3AA
HP Spectre Folio Backpack	8GF06AA

OMEN Transceptor 15 Backpack	7MT84AA
OMEN Transceptor 15 Rolltop Backpack	7MT83AA
OMEN by HP Gaming Backpack	4YJ80AA

Covers

HP 15 Reversible Protective Sleeve	6UY96AA
HP 15 Reversible Protective Sleeve	7KX13AA
HP 15 Reversible Protective Sleeve	7KX15AA
HP 15 Reversible Protective Sleeve	7KX16AA
HP 15.6 Black/Red Neoprene Sleeve	V5C30AA
HP 15.6 Neoprene Sleeve	V5C31AA
HP 15.6 Sleeve	14V33AA
HP Carry Sleeve 15	1PD64AA
HP Carry Sleeve 15	3XD35AA
HP Carry Sleeve 15	3XD36AA
HP Carry Sleeve 15	9GF67AA
HP Envy Urban 15.6 Sleeve	3KJ70AA
HP Envy Urban 15.6 Sleeve	7XG60AA
HP Lightweight 15.6 Laptop Sleeve	1G6D6AA
HP Reversible Neoprene Sleeve	2TX17AA
HP Reversible Neoprene Sleeve	2UF60AA
HP Reversible Neoprene Sleeve	2UF62AA
HP Reversible Protective 15.6-inch Blue Laptop Sleeve	2F1X7AA
HP Reversible Protective 15.6-inch Geo Laptop Sleeve	2F2L0AA
HP Reversible Protective 15.6-inch Gold Laptop Sleeve	2F2K6AA
HP Reversible Protective 15.6-inch Mauve Laptop Sleeve	2F1W8AA
HP Reversible Protective 15.6-inch Silver Laptop Sleeve	2F2K5AA
OMEN Transceptor 15 Sleeve	3J044AA

Cases

HP 15.6 Duotone Briefcase	4QF94AA
HP 15.6 Duotone Briefcase	4QF95AA
HP 15.6 SMB Backpack Case	T0F84AA
HP 15.6 SMB Topload Case	T0F83AA
HP 15.6 Signature Slim Topload Case	L6V68AA
HP 15.6 Value Black Topload	T9B50AA

HP 17.3 Signature Slim Topload Case	TOE19AA
HP 17.3 Value Topload Case	TOE18AA
HP Classic Briefcase	1FK07AA
HP Lightweight 15.6 Laptop Bag	1G6D5AA
HP Prelude 15.6-inch Laptop Bag	2Z8P4AA
HP Prelude 17.3-inch Laptop Bag	34Y64AA
HP Prelude Topload	1E7D7AA
HP Renew Topload	1A213AA
HP Renew Topload	1A218AA
HP Renew Travel 15.6-inch Laptop Bag	2Z8A4AA
HP Spectre Folio Top Load	8GF07AA
OMEN Transceptor 17 Duffel Bag	7MT82AA

Keyboards/Mice and Input Devices

Keyboards

HP Pavilion Gaming Keyboard 800	5JS06AA ★
HP Pavilion Gaming Keyboard 550	9LY71AA ★
HP Dual Mode Keyboard 1000	18J71AA
HP K2500 Wireless Keyboard	E5E78AA
HP Keyboard 100	2UN30AA
HP Pavilion Wired Keyboard 300	4CE96AA
HP Pavilion Wireless Keyboard 600	4CE98AA
HP Pavilion Wireless Keyboard 600	4CF02AA
OMEN Spacer Wireless TKL Keyboard	9BU31AA
OMEN by HP Encoder Keyboard	6YW75AA
OMEN by HP Encoder Keyboard	6YW76AA
OMEN by HP Sequencer Keyboard	2VN99AA

Mice

HP Pavilion Gaming Mouse 300	4PH30AA ★
HP Pavilion Gaming Mouse Pad 400	5JH72AA ★
HP Pavilion Gaming Mouse 200	5JS07AA ★
HP Pavilion Gaming Mouse Pad 300	4PZ84AA ★
HP 150 Wired Mouse	240J6AA
HP 150 Wireless Mouse	2S9L1AA

HP 220 Silent Wireless Mouse	391R4AA
HP 930 Creator Wireless Mouse	1DOK9AA
HP Bluetooth Travel Mouse	6SP25AA
HP Bluetooth® Mouse 250	6CR73AA
HP Bluetooth® Mouse Z5000	2HW67AA
HP Dual Mode Mouse	6CR71AA
HP ENVY Rechargeable Mouse 500	2LX92AA
HP Elite Presenter Mouse	3YF38AA
HP Pavilion Gaming Mouse 300	4PH31AA
HP Spectre Rechargeable Mouse 700	3NZ70AA
HP Spectre Rechargeable Mouse 700	3NZ71AA
HP Spectre Rechargeable Mouse 700	4YH34AA
HP Wired Mouse 100	6VY96AA
HP Wired Mouse 1000	4QM14AA
HP Wireless Mouse 200	2HU82AA
HP Wireless Mouse 200	2HU83AA
HP Wireless Mouse 200	2HU84AA
HP Wireless Mouse 200	2HU85AA
HP Wireless Mouse 200	2VY31AA
HP Wireless Mouse 200	X6W31AA
HP Wireless Mouse 220	258A1AA
HP Wireless Mouse 220	3FV66AA
HP Wireless Mouse 220	7KX10AA
HP Wireless Mouse 220	7KX11AA
HP Wireless Mouse 220	7KX12AA
HP Wireless Mouse 220 with Pouch	6JA61AA
HP Wireless Mouse 220 with Pouch	6JA62AA
HP Wireless Mouse 250	3FV67AA
HP Wireless Mouse X200	6VY95AA
HP Wireless Mouse Z3700	4VY82AA
HP Wireless Mouse Z3700	7UH87AA
HP Wireless Mouse Z3700	7UH88AA
HP Wireless Mouse Z4000	H5N61AA
HP Wireless Silent 280M Mouse	19U64AA
HP X1000 Mouse	H2C21AA
HP X1500 Mouse	H4K66AA

HP X220 Backlit Gaming Mouse	8DX48AA	
HP X3000 G2 Wireless Mouse	28Y30AA	
HP X3000 G2 Wireless Mouse	2C3M3AA	
HP X3000 Wireless Mouse	H2C22AA	obsolete
HP X4500 Wireless (Black) Mouse	H2W16AA	
HP X500 Wired Mouse	E5C12AA	
HP X500 Wired Mouse	E5E76AA	
HP Z3700 Black Wireless Mouse	26V63AA	
HP Z3700 Black Wireless Mouse	V0L79AA	
HP Z3700 Blue Wireless Mouse	V0L81AA	
HP Z3700 Camo Wireless Mouse	171D7AA	
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 Bluetooth Mouse	E5C13AA	
HP Z5000 Dark Ash Silver Wireless Mouse	W2Q00AA	
OMEN Vector Essential Mouse	8BC52AA	
OMEN Vector Mouse	8BC53AA	
OMEN Vector Wireless Mouse	2B349AA	
OMEN by HP Hard Mouse Pad 200	2VP01AA	
OMEN by HP Mouse 600	1KF75AA	obsolete
OMEN by HP Mouse Pad 100	1MY14AA	
OMEN by HP Mouse Pad 200	3ML37AA	
OMEN by HP Mouse Pad 300	1MY15AA	
OMEN by HP Outpost Mousepad	6CM14AA	
OMEN by HP Photon Wireless Mouse	6CL96AA	
OMEN by HP Reactor Mouse	2VP02AA	

Keyboard and Mouse Kits

HP 150 Wired Mouse and Keyboard	240J7AA	
HP 230 Wireless Mouse and Keyboard Combo	18H24AA	
HP 330 Wireless Mouse and Keyboard Combination	2V9E6AA	
HP C2500 Desktop	J8F15AA	

HP C2710 Combo Keyboard	M7P30AA
HP C6020 Wireless Desktop	P1F56AA
HP Pavilion Keyboard and Mouse 200	9DF28AA
HP Pavilion Wired Keyboard and Mouse 400	4CE97AA
HP Pavilion Wireless Keyboard and Mouse 800	4CE99AA
HP Pavilion Wireless Keyboard and Mouse 800	4CF00AA
HP Wired Keyboard and Mouse 160	6HD76AA
HP Wireless Keyboard and Mouse 250	6JU16AA
HP Wireless Keyboard and Mouse 300	3ML04AA

Cables/Cable Kits/Cable Adapters

Cable Adapters

HP USB-C to USB-A Hub	Z6A00AA ★
HP USB Type-C to RJ45 Adapter	V8Y76AA
HP USB-C to HDMI 2.0	1WC36AA
HP USB-C to HDMI 2.0	1WC36UT
HP USB-C to RJ45 Adapter	V7W66AA
HP USB-C to RJ45 Adapter	V7W66UT
HP USB-C to USB-A Hub	Z6A00UT
HP USB-C to USB-A Hub	Z8W90AA
HP USB-C to VGA Adapter	N9K76AA
HP USB-C to VGA Adapter	N9K76UT
HP USB-C to VGA Display Adapter	P7Z54AA

Audio/Multimedia and Communication Devices

Headsets

HP X1000 Wireless Gaming Headset	7HC43AA ★
HP Pavilion Gaming Headset 400	4BX31AA ★
HP Bluetooth Headset 400	2ZW81AA
HP Bluetooth Headset 500	2J875AA
HP Boom Mic Headset 150	2EM62AA
HP Earbuds Black Headset 150	X7B04AA
HP H2800 Black Headset	J8F10AA
HP In-Ear Headphone 100	1KF54AA
HP In-Ear Headset 150	2AP91AA

HP Pavilion Gaming Headset 600	4BX33AA	
HP Stereo Headset H2800	2AP94AA	
HP Stereo Headset H2800	2AP95AA	
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

Speakers

HP Black Bluetooth Speaker 350	2D802AA
HP Black Bluetooth Speaker 360	2D799AA
HP Blue Bluetooth Speaker 350	2D803AA
HP Blue Bluetooth Speaker 360	2D800AA
HP Gaming Speakers X1000	8PB07AA
HP Silver Bluetooth Speaker 350	2D804AA
HP Silver Bluetooth Speaker 360	2D801AA

Headphones

HP Wireless Earbuds G2	169H9AA
OMEN Dyad Earbuds	8JE67AA

Graphics Cards

Graphics Connectors/Adapters

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

Power Adapters

HP Pavilion High Power Adapter 150W	2DR33AA
HP Pavilion USB-C to HDMI 2.0 Adapter	2PC54AA

PC Drives and Storage

PC DVD+RW Drives

HP USB External DVDRW Drive	F6V97AA
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