HP

OMEN Laptop – 17-cb1002na (2S383EA)

Overview

Big rig power. Compact design.

Stunning desktop-grade power in a sleek, portable design keeps you playing your best wherever gaming takes you. Take on the most demanding AAA game titles with NVIDIA® graphics and an Intel® Core™ processor[1]. Immerse yourself in smooth gameplay on a narrow-bezel display with fast refresh rates.

Desktop-grade performance

Get the power of a desktop in your laptop. With an Intel® Core™ processor[1], NVIDIA® graphics, and accelerated storage, nothing holds you back.

Designed for power

The OMEN 17 Laptop's sleek, modern design is engineered to produce desktop-grade power. With an advanced thermal cooling solution and single-panel access to internals for easy upgradability, nothing stops you from playing at your best.

Fast, fluid gameplay

Crisp gameplay is crucial if you want to play at your best. With a high resolution and refresh rate, on-screen visuals are swift and smooth, while a narrow bezel display delivers edge-to-edge immersion.

Features

Windows 10

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

NVIDIA® GeForce RTX™ 2070 graphics

The all-new NVIDIA Turing™ architecture with breakthrough ray tracing technology brings the future of gaming with incredible realism and performance.

Dual storage configurations

By including both an SSD drive for the operating system and a traditional hard drive you get the benefits of both worlds—fast boot up times, snappy responsiveness, and larger storage capacity.

Four-zone island-style backlit keyboard

Allows you to backlight 4 independent zones with different RGB lighting. WASD keys are outlined to highlight key controls. It's all easily controlled through the OMEN Command Center.

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

Available in capacities up to 512 GB, PCIe-based flash storage is up to 17x faster than a traditional 5400-rpm laptop hard drive.[3]

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[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.

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

Specifications

Operating system	Windows 10 Home 64
Product color	Shadow black
Processor family	10th Generation Intel® Core™ i7 processor
Processor	Intel® Core™ i7-10750H (2.6 GHz base frequency, up to 5 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 6 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
Hard drive (2nd)	1 TB 7200 rpm SATA
Product design	Sandblasted hairline finish
Optical drive	Optical drive not included
Graphics	Integrated
Graphics (integrated)	Intel® UHD Graphics
Display	43.9 cm (17.3") diagonal FHD, 144 Hz, IPS, anti-glare, WLED-backlit, 300 nits, 100% sRGB (1920 x 1080)
Display	17.3" diagonal FHD, 144 Hz, IPS, anti-glare, WLED-backlit, 300 nits, 100% sRGB (1920 x 1080)
Display size (diagonal)	43.9 cm (17.3")
Display size (diagonal)	17.3"
Audio features	Audio by Bang & Olufsen; DTS:X® Ultra; OMEN Audio Control Support DTS:X® Ultra; Dual speakers; HP Audio Boost 2.0
Minimum dimensions (W x D x H)	40.5 x 28.5 x 2.99 cm *(Dimensions vary by configuration)*
Minimum dimensions (W x D x H)	15.94 x 11.22 x 1.18 in
Weight	Starting at 3.23 kg *(Weight varies by configuration)*
Weight	Starting at 7.12 lb
Keyboard	Full-size island-style white legend 4-zone lighting RGB backlit keyboard with numeric keypad
Pointing device	Touchpad with multi-touch gesture support and 26-Key Rollover Anti-Ghosting Key technology; Precision Touchpad Support
Input devices	Accelerometer
Webcam	HP Wide Vision HD Camera with integrated dual array digital microphone

Ports	1 Thunderbolt™ 3 (40Gbps signaling rate) with SuperSpeed USB Type-C® 10Gbps signaling rate (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 Mini DisplayPort™; 1 HDMI 2.0a; 1 RJ-45; 1 AC smart pin; 1 headphone/microphone combo; 1 microphone
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	4.7 kg
Network interface	Integrated 10/100/1000 GbE LAN
Wireless	Intel® Wi-Fi 6 AX 201 (2x2) and Bluetooth® 5 Combo (Supporting Gigabit file transfer speeds)
Power supply type	230 W Smart AC power adapter
Battery type	4-cell, 70 Wh Li-ion polymer
Battery recharge time	Supports battery fast charge: approximately 50% in 45 minutes[5]
Battery weight	10.12 oz
Battery weight	287 g
Energy efficiency	ENERGY STAR® certified; EPEAT® Silver registered
Software included	McAfee LiveSafe™
Software – Productivity & finance	1 month trial for new Microsoft Office 365 customers
Cloud service	Dropbox[1]
UPC number	194850851193

Additional specifications

Brightness	300 nits
Color gamut	100% sRGB
Display	17.3" diagonal Full HD display
Display	43.9 cm (17.3") diagonal Full HD display
Graphics	Discrete
Graphics (discrete)	NVIDIA® GeForce RTX™ 2070 (8 GB GDDR6 dedicated)
MDA key selling point	Windows 10 Home or other operating systems available
Memory and storage	16 GB memory; 1 TB HDD storage; 512 GB SSD storage
Memory layout (slots & size)	2 x 8 GB
Package dimensions (W x D x H)	2.71 x 23.54 x 13.58 in
Package weight	10.38 lbs
Processor core	6
Processor speed	2.6 GHz
Product brand name	HP
Storage type	SSD; HDD
Touchscreen	No

[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.

[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.

Accessories

Cases and Covers

Cases

OMEN Transceptor 17 Duffel Bag	**7MT82AA ★**
HP 17.3 Value Topload Case	T0E18AA

Backpacks

HP 17.3 in OMEN Gaming Backpack	K5Q03AA
OMEN X by HP Transceptor Backpack	3KJ69AA
OMEN by HP Gaming Backpack	4YJ80AA

Audio/Multimedia and Communication Devices

Headsets

OMEN by HP Mindframe Prime Headset	**6MF35AA ★**	
OMEN by HP Mindframe Prime Headset	**6MF36AA ★**	
Omen X by HP Mindframe Headset	**3XT27AA ★**	
OMEN by HP Headset 800	**1KF76AA ★**	
HP Bluetooth Headset 400	2ZW81AA	
HP Bluetooth Headset 400	2ZW82AA	
HP Bluetooth Headset 400	5AX91AA	obsolete
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 Headphone 100	1KF55AA	
HP In-Ear Headphone 100	1KF56AA	
HP In-Ear Headset 150	2AP90AA	
HP In-Ear Headset 150	2AP91AA	
HP In-Ear Headset 150	2AP92AA	
HP In-Ear Headset 150	2AP93AA	
HP On-Ear Headphone 200	2VB08AA	
HP On-Ear Headphone 200	2VB09AA	
HP On-Ear Headphone 200	2VB10AA	

HP Pavilion Bluetooth® Headset 600	1SH06AA	obsolete
HP Pavilion Gaming Headset 400	4BX31AA	
HP Pavilion Gaming Headset 400	4BX32AA	
HP Pavilion Gaming Headset 600	4BX33AA	
HP Pavilion Gaming Headset 600	5RY19AA	
HP Stereo Headset H2800	2AP94AA	
HP Stereo Headset H2800	2AP95AA	
HP X1000 Wireless Gaming Headset	7HC42AA	
HP X1000 Wireless Gaming Headset	7HC43AA	

Headphones

HP Black Doha In-Ear Headset 150	Z3M53AA
OMEN Dyad Earbuds	8JE67AA

Keyboards/Mice and Input Devices

Mice

OMEN by HP Outpost Mousepad	**6CM14AA ★**
OMEN by HP Photon Wireless Mouse	**6CL96AA ★**
OMEN by HP Mouse Pad 300	**1MY15AA ★**
OMEN by HP Reactor Mouse	**2VP02AA ★**
OMEN by HP Reactor Mouse	**7ZF19AA ★**
OMEN by HP Hard Mouse Pad 200	**2VP01AA ★**
OMEN by HP Mouse 400	**3ML38AA ★**
OMEN by HP Mouse 600	**1KF75AA ★**
OMEN by HP Mouse Pad 100	**1MY14AA ★**
OMEN by HP Mouse Pad 200	**3ML37AA ★**
HP 201 Silver Wireless Mouse	3DH83AA
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 ENVY Rechargeable Mouse 500	2WX69AA
HP Elite Presenter Mouse	3YF38AA
HP Pavilion Gaming Mouse 200	5JS07AA

HP Pavilion Gaming Mouse 300	4PH30AA	
HP Pavilion Gaming Mouse 300	4PH31AA	
HP Retractable Wired Mouse 100	6GJ71AA	
HP Spectre Bluetooth Mouse 500	1AM57AA	
HP Spectre Bluetooth Mouse 500	1AM58AA	
HP Spectre Bluetooth® Mouse 510	1PX86AA	obsolete
HP Spectre Rechargeable Mouse 700	3NZ70AA	
HP Spectre Rechargeable Mouse 700	3NZ71AA	
HP Spectre Rechargeable Mouse 700	4YH33AA	
HP Spectre Rechargeable Mouse 700	4YH34AA	
HP Spectre Rechargeable Mouse 700	5VD59AA	
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	2VY29AA	
HP Wireless Mouse 200	2VY31AA	
HP Wireless Mouse 200	2VY32AA	
HP Wireless Mouse 200	2VY33AA	
HP Wireless Mouse 200	X6W31AA	
HP Wireless Mouse 201	3XA55AA	
HP Wireless Mouse 202	2NE06AA	
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 220 with Pouch	6JA63AA	
HP Wireless Mouse 250	3FV67AA	
HP Wireless Mouse X200	6VY95AA	
HP Wireless Mouse X3000	2ET89AA	obsolete
HP Wireless Mouse X3000	2HW68AA	
HP Wireless Mouse X3000	2HW69AA	

HP Wireless Mouse X3000	2HW70AA	obsolete
HP Wireless Mouse Z3700	4QF62AA	
HP Wireless Mouse Z3700	4VY81AA	
HP Wireless Mouse Z3700	4VY82AA	
HP Wireless Mouse Z3700	6SD49AA	
HP Wireless Mouse Z3700	7UH85AA	
HP Wireless Mouse Z3700	7UH86AA	
HP Wireless Mouse Z3700	7UH88AA	
HP Wireless Mouse Z3700	7UH89AA	
HP Wireless Mouse Z4000	2HW66AA	
HP Wireless Mouse Z4000	H5N61AA	
HP X220 Backlit Gaming Mouse	8DX48AA	
HP X3000 Blizzard White Wireless Mouse	N4G64AA	
HP X3000 Cobalt Blue Wireless Mouse	N4G63AA	
HP X3000 Purple Wireless Mouse	K5D29AA	
HP X3000 Red Wireless Mouse	K5D26AA	obsolete
HP X3000 Silver Wireless Mouse	K5D28AA	obsolete
HP X3000 Sunset Red Wireless Mouse	N4G65AA	obsolete
HP X3000 Wireless Mouse	H2C22AA	
HP X4500 Wireless (Black) Mouse	H2W16AA	
HP X4500 Wireless (Metal Black) Mouse	H2W26AA	
HP X500 Wired Mouse	E5E76AA	
HP X900 Wired Mouse	V1S46AA	
HP Z3200 Black Wireless Mouse	J0E44AA	
HP Z3200 White Wireless Mouse	E5J19AA	
HP Z3700 Black Wireless Mouse	V0L79AA	
HP Z3700 Blue Wireless Mouse	V0L81AA	
HP Z3700 Gold Wireless Mouse	X7Q43AA	
HP Z3700 Red Wireless Mouse	V0L82AA	
HP Z3700 Silver Wireless Mouse	X7Q44AA	
HP Z3700 Valentine Wireless Mouse	1CA96AA	obsolete
HP Z3700 White Wireless Mouse	V0L80AA	
HP Z5000 Bluetooth Mouse	E5C13AA	
HP Z5000 Dark Ash Silver Wireless Mouse	W2Q00AA	

Keyboards

OMEN by HP Sequencer Keyboard	**2VN99AA ★**	
OMEN by HP Encoder Keyboard	**6YW75AA ★**	
OMEN by HP Encoder Keyboard	**6YW76AA ★**	
OMEN by HP Keyboard 1100	**1MY13AA ★**	
HP Classic Wired Keyboard	WZ972AA	
HP K1500 Keyboard	H3C52AA	
HP K1500 Keyboard	J8F16AA	
HP K2500 Wireless Keyboard	E5E77AA	
HP Keyboard 100	2UN30AA	
HP Pavilion Gaming Keyboard 500	3VN40AA	
HP Pavilion Gaming Keyboard 800	5JS06AA	
HP Pavilion Wired Keyboard 300	4CE96AA	
HP Pavilion Wireless Keyboard 400	4XL88AA	
HP Pavilion Wireless Keyboard 600	4CE98AA	
HP Pavilion Wireless Keyboard 600	4CF02AA	
HP Spectre Rechargeable Keyboard 1000	2ER92AA	

Keyboard and Mouse Kits

HP C2500 Desktop	H3C53AA	
HP C2500 Desktop	J8F15AA	
HP C2710 Combo Keyboard	M7P30AA	
HP Pavilion Wired Keyboard and Mouse 400	4CE97AA	
HP Pavilion Wireless Keyboard and Mouse 600	3ML05AA	
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 Classic Desktop	J8F13AA	
HP Wireless Keyboard and Mouse 200	Z3Q63AA	
HP Wireless Keyboard and Mouse 250	6JU16AA	
HP Wireless Keyboard and Mouse 300	3ML04AA	

Batteries/Chargers/Adapters

AC Adapters

HP 4.5mm to 7.4mm Dongle	5LX57AA	obsolete

Power Adapters

HP Pavilion USB-C™ to HDMI 2.0 Adapter	2PC54AA
OMEN by HP Power Adapter 330W	2DR32AA

Networking Products

Switches/Hubs/Routers/Converters/Repeaters

HP ENVY USB-C Hub	5LX63AA

PC Drives and Storage

External Hard Drives

HP External Portable USB 3.0 Hard Drive	K6A93AA

PC DVD+RW Drives

HP USB External DVDRW Drive	F6V97AA

Graphics Cards

Graphics Connectors/Adapters

HP HDMI to VGA Cable Adapter	X1B84AA

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 Multi-port Hub	1BG94AA
HP USB-C to USB 3 Adapter	P7Z56AA
HP USB-C to USB-A Hub	Z8W90AA
HP USB-C to VGA Display Adapter	P7Z54AA

Docking and Port Replicators

Docking Stations

HP Thunderbolt Dock 120W with HDMI Adapter	6HP48AA

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