



## Play yourself up

Go beyond with the OMEN by HP 16.1 inch Gaming Laptop. Powered by an AMD processor[1] and mighty graphics, play at your best from anywhere. Expand your gaming world with sharper and smoother visual experiences courtesy of a high resolution and a fast refresh rate display. Stay cool under pressure with OMEN Tempest Cooling Technology[2] that prevents overheating even when your game heats up.



### Stay cool under pressure

With 3-sided venting and 5-way airflow, OMEN Tempest Cooling Technology[2] prevents overheating even when your game heats up.

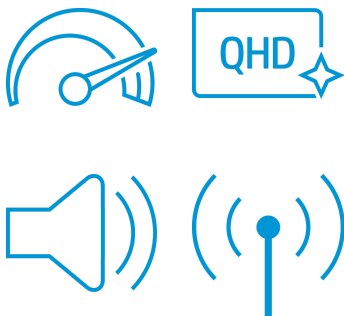
### Fast refresh rate during gaming

Play at your best with tear-free gameplay at a fast refresh rate and eliminate screen flickering with HP Flicker-free.[3]

### Customize with OMEN Gaming Hub

Your one-stop shop to elevate gameplay, from controlling every little performance to lighting options and more.

## Featuring



### Get a fresh perspective

Windows 11 provides a calm and creative space where you can pursue your passions through a fresh experience. From a rejuvenated Start menu, to new ways to connect to your favorite people, news, games, and content—Windows 11 is the place to think, express, and create in a natural way. [4]

### 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. [1]

### QHD IPS antiglare display

Get lost in the captivating QHD resolution with IPS technology. Coupled with an antiglare screen to reduce light reflection, this display provides a remarkable entertainment experience. [5]

### DTS: X® Ultra Technology

By producing authentic, spatially accurate 3D sound through any headset, this technology offers specially tuned audio modes for different game types to provide immersion for the best entertainment experience possible. [6]

### Effortlessly connected

Enjoy a smoother wireless experience with Wi-Fi 6 (2x2) and Bluetooth® 5.0 combo, all your connections are solid and up to 3x faster file transfer speeds than Wi-Fi 5. [7]

## Specifications

|  |   |
|--|---|
| <b>Operating system</b>                  | Windows 11 Home <sup>[38]</sup>   |
| <b>Product color</b>                     | Mica silver cover and base, mica silver aluminum keyboard frame   |
| <b>Processor family</b>                  | AMD Ryzen™ 7 processor  |
| <b>Processor</b>                         | AMD Ryzen™ 7 5800H (up to 4.4 GHz max boost clock, 16 MB L3 cache, 8 cores, 16 threads) <sup>[6,7]</sup>  |
| <b>Chipset</b>                           | AMD Integrated SoC  |
| <b>Memory</b>                            | 16 GB DDR4-3200 MHz RAM (2 x 8 GB)  |
| <b>Internal Storage</b>                  | 1 TB PCIe® NVMe™ TLC M.2 SSD  |
| <b>Product design</b>                    | Paint finish cover and base, sandblasted keyboard frame   |
| <b>Optical drive</b>                     | Optical drive not included  |
| <b>Graphics</b>                          | Discrete  |
| <b>Graphics (discrete)</b>               | AMD Radeon™ RX 6600M Graphics (8 GB GDDR6 dedicated)  |
| <b>Graphics</b>                          | Integrated  |
| <b>Graphics (integrated)</b>             | AMD Radeon™ Graphics  |
| <b>Display</b>                           | 40.9 cm (16.1") diagonal, QHD (2560 x 1440), 165 Hz, 3 ms response time, IPS, micro-edge, anti-glare, Low Blue Light, 300 nits, 100% sRGB   |
| <b>Display</b>                           | 16.1" diagonal, QHD (2560 x 1440), 165 Hz, 3 ms response time, IPS, micro-edge, anti-glare, Low Blue Light, 300 nits, 100% sRGB   |
| <b>Display size (diagonal)</b>           | 40.9 cm (16.1")   |
| <b>Display size (diagonal)</b>           | 16.1"   |
| <b>Audio</b>                             | Audio by Bang & Olufsen; DTS:X® Ultra; Dual speakers; HP Audio Boost  |
| <b>Minimum dimensions (W x D x H)</b>    | 36.92 x 24.8 x 2.3 cm<br><i>(Dimensions vary by configuration)</i>  |
| <b>Minimum dimensions (W x D x H)</b>    | 14.53 x 9.65 x 0.91 in  |
| <b>Weight</b>                            | Starting at 2.3 kg<br><i>(Weight varies by configuration)</i>   |
| <b>Weight</b>                            | Starting at 5.09 lb   |
| <b>Keyboard</b>                          | Full-size, 4-zone RGB backlit, mica silver keyboard and 26-Key Rollover Anti-Ghosting Key technology  |
| <b>Pointing device</b>                   | HP Imagepad with multi-touch gesture support; Precision Touchpad Support  |
| <b>Input devices</b>                     | IR Thermal sensor   |
| <b>Camera</b>                            | HP Wide Vision 720p HD camera with integrated dual array digital microphones  |
| <b>Ports</b>                             | 1 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 HDMI 2.1; 1 RJ-45; 1 AC smart pin; 1 headphone/microphone combo <sup>[19]</sup> |
| <b>Expansion slots</b>                   | 1 multi-format SD media card reader   |
| <b>Package dimensions (W x D x H)</b>    | 6.9 x 55.2 x 34.5 cm  |
| <b>Package weight</b>                    | 3.93 kg   |
| <b>Network interface</b>                 | Integrated 10/100/1000 GbE LAN  |
| <b>Wireless</b>                          | Intel® Wi-Fi 6E AX210 (2x2) and Bluetooth® 5.2 combo (Supporting Gigabit data rate)   |
| <b>Power supply type</b>                 | 230 W AC power adapter  |
| <b>Battery type</b>                      | 6-cell, 83 Wh Li-ion polymer  |
| <b>Battery life</b>                      | Up to 9 hours <sup>[3]</sup>  |
| <b>Battery recharge time</b>             | Supports battery fast charge: approximately 50% in 45 minutes <sup>[5]</sup>  |
| <b>Battery weight</b>                    | 0.69 lb   |
| <b>Battery weight</b>                    | 315 g   |
| <b>Ecolabels</b>                         | EPEAT® registered   |
| <b>Energy star certified</b>             | ENERGY STAR® certified  |
| <b>Sustainable impact specifications</b> | Ocean-bound plastic in speaker enclosure(s); Recycled metal in keyboard frame and hinge cap(s); Keyboard keycaps made with post-consumer recycled plastic   |
| <b>Security management</b>               | Trusted Platform Module (Firmware TPM) support  |
| <b>Software included</b>                 | McAfee LiveSafe™  |

---

**Software - Productivity & finance** 1 month trial for new Microsoft 365 customers<sup>[24]</sup>

---

**Cloud service** 25 GB Dropbox storage for 12 months<sup>[1]</sup>

---

**UPC number** 196068573027

---

## Top Recommended Displays, Accessories and Services

---

### OMEN by HP Displays

|                             |         |
|-----------------------------|---------|
| OMEN 27i Monitor            | 8AC94AA |
| OMEN 27i Monitor            | 8AC95AA |
| OMEN 25i Gaming FHD Monitor | 22J05AA |

---

### Mice

|                             |         |
|-----------------------------|---------|
| OMEN Vector Wireless Mouse  | 2B349AA |
| OMEN by HP Outpost Mousepad | 6CM14AA |
| OMEN by HP Mouse Pad 300    | 1MY15AA |
| OMEN by HP Reactor Mouse    | 2VP02AA |
| OMEN Vector Mouse           | 8BC53AA |
| OMEN by HP Mouse Pad 100    | 1MY14AA |

---

### Keyboards

|                               |         |
|-------------------------------|---------|
| OMEN by HP Sequencer Keyboard | 2VN99AA |
| OMEN by HP Encoder Keyboard   | 6YW76AA |

---

### Power Adapters

|                                     |         |
|-------------------------------------|---------|
| HP Pavilion High Power Adapter 150W | 2DR33AA |
|-------------------------------------|---------|

---

### Speakers

|                          |         |
|--------------------------|---------|
| HP Gaming Speakers X1000 | 8PB07AA |
|--------------------------|---------|

---

### Headsets

|                    |         |
|--------------------|---------|
| OMEN Blast Headset | 1A858AA |
|--------------------|---------|

---

### Headphones

|                   |         |
|-------------------|---------|
| OMEN Dyad Earbuds | 8JE67AA |
|-------------------|---------|

## Messaging Footnotes

[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. AMD's numbering is not a measurement of clock speed.

[2] Thermal solution varies by configuration.

[3] The Flicker-free capability eliminates screen flickering through integrating DC-dimming LED backlights.

[4] 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 is automatically updated and enabled. High speed internet and Microsoft account required. ISP fees may apply and additional requirements may apply over time for updates. See <http://www.windows.com>.

[5] Quad high-definition (QHD) content is required to view QHD images.

[6] Listening to personal stereo equipment at full volume for long periods can damage the user's hearing. To reduce the risk of hearing damage, lower the volume and amount of time listening at full volume.

[7] 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. Wi-Fi 6 (802.11ax) is not supported in Ukraine, Russia, and Indonesia where the Wi-Fi 6 (802.11ax) will be disabled and downgraded to 802.11ac by the Intel's DRS solution.

## Technical Specifications Footnotes

[1] 25 GB of free Dropbox storage 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.

[3] Windows 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.

[24] Must activate within 180 days of Windows activation.

[38] 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 is automatically updated and enabled. High speed internet and Microsoft account required. ISP fees may apply and additional requirements may apply over time for updates. See <http://www.windows.com>

---

© Copyright 2022 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.

Intel, Core, Optane, Celeron, Pentium, Iris, XMM, and Thunderbolt are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries. AMD, Ryzen, Athlon, and Radeon are trademarks of Advanced Micro Devices, Inc. Bluetooth is a trademark owned by its proprietor and used by HP Inc. under license. NVIDIA and GeForce are trademarks and/or registered trademarks of NVIDIA Corporation in the U.S. and other countries. USB Type-C® and USB-C® are registered trademarks of USB Implementers Forum. DisplayPort™ and the DisplayPort™ logo are trademarks owned by the Video Electronics Standards Association (VESA®) in the United States and other countries. McAfee and McAfee LiveSafe are trademarks or registered trademarks of McAfee LLC in the United States and other countries. ENERGY STAR is a registered trademark of the U.S. Environmental Protection Agency. All other trademarks are the property of their respective owners.

