# **Built to surpass limits**

The OMEN 16 MAX gaming laptop provides unparalleled performance both at-home or on-the-go. With nextgen NVIDIA® GPUs and AMD Ryzen™ AI CPUs<sup>1</sup>, a new Unleashed Mode for manual overclocking, and a thermal architecture built to cut down on both throttling and long term wear, dedicated gamers can achieve their best for years to come.



\*Product image may differ from actual product



### Performance you control

Throttle less and carry more with the latest AMD Ryzen™ AI CPUs<sup>1</sup> and next-gen NVIDIA® RTX™ graphics.



### Put your throttling on ice

Self-cleaning fans, a vapor chamber, and liquid metal ensure your laptop stays cool and reduces maintenance.



### Instant pair with HyperX

Instantly connect up to three HyperX devices to your laptop at once, like a mouse, headset, and controller.

# Sustainability in action

### Light the way you play

 $Customize\ your\ lattice-less\ RGB\ keyboard\ and\ other\ lighting\ options\ in\ OGH\ to\ represent\ your\ unique\ style.$ 













### Featuring

### Get a fresh perspective

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 wav.

AMD Ryzen™ AI 300 Series processors with AMD Radeon™ graphics

Unlock transformational AI PC experiences with AMD Ryzen™ AI 300 series processors. Designed for users to experience pure speed, responsiveness, and power efficient AI processing for Copilot+ PCs.3

AMD FreeSync™ Premium Technology

Every gamer deserves perfectly smooth gameplay and peak performance. Game confidently with a high refresh rate, low framerate compensation, and low latency. AMD FreeSync™ Premium certified monitors are here.

### 165Hz Display

Reduce frustrating lag and image ghosting with a 165Hz display.<sup>5</sup>

### Eyesafe® Certified Display

Eyesafe® certified displays meet TÜV low blue light requirements and Eyesafe® standards for protecting your eyes from harmful blue light without distorting colors to reduce eyestrain when working for long periods of time.<sup>6</sup>

### 3ms response time

How fast your display's pixels respond is crucial for a smooth picture. With a 3millisecond response time, your action-filled content will look crisp and fluid without motion blur.5

Using DC Dimming technology that controls brightness by adjusting direct current rather than cycling the backlight, we can eliminate screen flickering for more comfortable viewing.

### 16:10 aspect ratio

A 16:10 aspect ratio lets you see more of your content with less scrolling.

### 100% sRGB

Showcase your creations in all their colors on the 100% sRGB display for maximum color broadness and accuracy.

### Try PC Game Pass for free with your new HP device

Play hundreds of high-quality PC games with your new HP device and 3 free months of PC Game Pass - including EA play. With new games added all the time, there's always something new to play.8

### Incorporating ocean-bound plastics

HP incorporates increasing amounts of recycled, renewable, and non-virgin raw materials. Built with the environment in mind, this product includes a percentage of ocean-bound plastic in the design.9

### Keyboard contains post-consumer recycled plastic

We're bringing a more thoughtful design to our keyboards by using post-consumer

### ENERGY STAR®

This product meets the criteria that require computers to operate efficiently to get ENERGY STAR certification. 11

### **HP Fast Charge**

When your laptop is low on power, no one has time to wait hours to recharge. Power down your device and go from 0 to 50% charge in approximately 30 minutes. 12

Enjoy a smooth wireless experience with a Wi-Fi 6E (2x2) and Bluetooth  $^\circ$  5.3 combo.  $^{13}$ 

### HP True Vision FHD IR camera

Log in safely through Windows Hello with the infrared sensor. With an 88-degree, wide-angle field of view, you can video chat with your entire family or group of friends in stunning detail.  $^{\rm 14}$ 

### DisplayPort<sup>™</sup>

This robust digital video and audio port transmits up to 8K performance or allows you to connect multiple displays together. 15

### McAfee® LiveSafe™

Protect your operating system with a free 30-day McAfee® LiveSafe™ subscription. 16

### PCIe SSD storage

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

Take your audio experience to the next level with smart amplification technology giving you loud, clear and dynamic sound.

### Audio tuned by HyperX

Immerse yourself in the sweet sounds of audio mixed and tuned by HyperX.

### 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.

### 4-Zone RGB Keyboard with Numpad

Illuminate your entire keyboard and numpad with 4-zone RGB.

### HP Imagepad with multi-touch gesture

This true multi-touch touchpad supports four finger gestures and lets you scroll, zoom, and navigate with a simple touch.

# Recommended accessories and services (not included)



HyperX Knight Backpack 8C525AA



HyperX Pulsefire Haste 2 Pro - 4K Wireless Gaming A1KY5AA



3-year return to depot



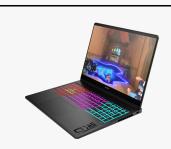
HyperX Cloud III S Wireless - Gaming Headset (Black-



# **Specifications**







### Performance

### Operating system

Windows 11 Home Single Language

AMD Ryzen™ AI 7 350 (up to 5.0 GHz max boost clock, 16 MB L3 cache, 8 cores, 16 threads)<sup>6,7</sup>

Processor family: AMD Ryzen™ AI 7 processor

Neural Processing Unit (NPU): AMD Ryzen™ AI (50 NPU TOPS)

### Chipset

AMD integrated SoC

### Memory

16 GB DDR5-5600 MT/s (2 x 8 GB)

Transfer rates up to 5600 MT/s.

Number of User-accessible Memory Slots: 2

### Storage

512 GB PCle® Gen4 NVMe™ M.2 SSD 25 GB Dropbox storage for 12 months<sup>1</sup>

Discrete: NVIDIA GeForce RTX™ 5060 Generation Laptop GPU (8 GB GDDR6 dedicated);

**Audio** DTS:X® Ultra; Dual speakers; HP Audio Boost; HyperX

### Display

40.6 cm (16") diagonal, 2K (1920 x 1200), 60-165 Hz, 3 ms response time, IPS, micro-edge, anti-glare, Low Blue Light, 400 nits, 100% sRGB<sup>17,21,28</sup>

### Screen-to-body ratio

88.81%<sup>18</sup>

### Power

280 W Smart AC power adapter;

### **Battery type**

6-cell, 83 Wh Li-ion polymer<sup>23</sup>

### **Battery and Power**

Supports battery fast charge: approximately 50% in 30 minutes<sup>5</sup>

## Connectivity

### Network interface

Integrated 10/100/1000 GbE LAN

## Wireless connectivity

MediaTek Wi-Fi 6E MT7922 (2x2) and Bluetooth® 5.3 wireless card 11,46

2 USB Type-A 10Gbps signaling rate; 1 AC smart pin; 1 HDMI 2.1; 1 headphone/microphone combo; 1 RJ-45; 2 USB Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 2.1, HP Sleep and Charge) 19,42

### Webcam

HP True Vision 1080p FHD IR camera with temporal noise reduction and integrated dual array digital microphones

# Sustainability

### **Ecolabels**

EPEAT® Gold with Climate+27

### **Energy star certified**

**ENERGY STAR® certified** 

### Sustainable impact specifications

Ocean-bound plastic in bezel, Keyboard keycaps and scissors contain postconsumer recycled plastic; Recycled metal in cover and hinge cap(s)39,40,41

## Design

### Product color

Shadow black aluminum Sandblasted and paint finish

### Software

### **HP apps**

HP Support Assistant; HP Connection Optimizer; OMEN Gaming Hub

McAfee Online Protection 1-year subscription<sup>2</sup>;

1 month trial for new Microsoft 365 customers<sup>24</sup>

### Service & support

1-month Adobe free trial offer; PC Game Pass 3-month trial <sup>25</sup> McAfee Online Protection 1-year subscription<sup>2</sup>

### Additional information

### **Part Number**

P/N: COQT4EA #ABV

UPC/EAN code: 199251924880

### Weight

2.48 kg;

Packed: 4.74 kg

### **Dimensions**

35.65 x 26.9 x 2.29 cm (front); 35.65 x 26.9 x 2.75 cm (rear);

Packed: 9.4 x 42.8 x 33.2 cm

### **Manufacturer Warranty**

1 year (1/1/0) limited warranty includes 1 year of parts and labor. No on-site repair. Terms and conditions vary by country. Certain restrictions and exclusions apply.

### Keyboard

Full-size, 4-zone RGB backlit, shadow black keyboard with numeric keypad and 26-Key Rollover Anti-Ghosting Key technology

HP Imagepad

### **Features**

AMD FreeSync™ Premium<sup>29</sup>

### Security management

Camera privacy shutter; Trusted Platform Module (Firmware TPM) support

### Sensors

IR thermal sensor



### **Footnotes**

### **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. Max Boost clock frequency performance varies depending on hardware, software and overall system configuration. Features and software that require a NPU may require software purchase, subscription or enablement by a software or platform provider, and third-party software may have specific configuration or compatibility requirements. Potential NPU inferencing performance varies by use, configuration, software and other factors.

<sup>2</sup> 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.

- 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. Features and software that require a NPU may require software purchase, subscription or enablement by a software or platform provider, and third party software may have specific configuration or compatibility requirements. Potential NPU inferencing performance varies by use, configuration, and other factors. Copilot+ in Windows requires Windows 11. Some features require an NPU. Timing of feature delivery and availability varies by market and device. Requires Microsoft account to log in. Where Microsoft in Windows is not available, the Copilot key will lead to the Bing search engine. See aka.ms/copilotpluspcs.
- <sup>4</sup> Requires a monitor and AMD Radeon''' graphics, both with FreeSync Premium support. AMD FreeSync Premium requires mandatory low framerate compensation and at least 120 Hz refresh rate at minimum FHD. See www. amd. com/free sync for complete details. Confirm capability with your system manufacturer before purchase. GD-161.
- 5 All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary, either higher or lower.
- 6 All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower. Eyesafe® Display for Low Blue Light is the Display Compliance Test Specification quality. See https://eyesafe.com for more details. Display measured diagonally
- <sup>7</sup>The flicker-free capability eliminates screen flickering through integrating DC-dimming LED backlights.

  <sup>8</sup> PC Game Pass: Subscription continues automatically at regular monthly price unless cancelled. Subject to xbox.com/subscriptionterms. Terms and exclusions apply. Game catalog varies over time, by region, and by device. All rights reserved. Xbox.com/pcgamepass, ea.com/ea-play/terms.Three month trial for devices purchased after October 2024. Microsoft account required. Offers available in select regions only. Credit card required. After promotional period, subscription automatically continues at the then-current regular price (subject to change), unless cancelled, plus applicable taxes. For cancellation details, see xbox.com/cancel. For complete details see terms and conditions https://www.xbox.com/en-US/xbox-game-pass?msockid=3f8c879b624a6bb10ac4924e63d86a01
- <sup>9</sup> Percentage of ocean-bound plastic contained in each component varies by product.
- 10 Keyboard components contain post-consumer recycled plastic. Percentage of post consumer recycled contained in each component varies by product.
- 11 Based on U.S. EPEAT\* registration according to IEEE 1680.1-2018 EPEAT\*. EPEAT\* status varies by country. Visit www.epeat.net for more information.
- 12 Recharges your battery up to 50% within 30 minutes when the system is off using "shut down" command, using HP adapter provided with the notebook or recommended power adapter disclosed in specifications (see http://store.hp.com). 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
- 13 Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 is backwards compatible with prior 802.11 specs. Wi-Fi 6E is designed to support gigabit data rate when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 80MHz and higher channels. Wi-Fi 6 (802.11ax) is not supported in Belarus where Wi-Fi settings will be optimized to local regulatory requirements (802.11ac).
- <sup>14</sup> Features may require software or other 3rd party applications to provide the described functionality.
- 15 8K content required to view 8K images. DisplayPort™ and the DisplayPort™ logo are trademarks owned by the Video Electronics Standards Association (VESA®) in the United States and other countries. Display measured
- 16 Internet service required and not included. Subscription required after 30 days

## **Technical Specifications Footnotes**

125 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. 2 Internet access required and not included. McAfee is pre-installed on your PC and an account is required for activation. Subscription renewal required after trial period. VPN feature is not available in India, China, Syria or

North Korea. McAfee is not compatible with Windows 11 in S mode. You'll need to permanently switch out of S mode. There's no charge to switch out of S mode, but you don't be able to turn it back on.

<sup>5</sup> Recharges your battery up to 50% within 30 minutes when the system is off using "shut down" command, using HP adapter provided with the notebook or recommended power adapter disclosed in specifications (see http://store.hp.com). 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

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.
- 11 Wi-Fi 6E is designed to support gigabit data rate when transferring files between two devices connected to the same router. Requires a wireless router, sold separately.
- <sup>17</sup> All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower
- 18 Percent of active plus nonactive viewing area to active viewing area plus border. Measure with lid vertical to the desk.
- <sup>19</sup> For best results with HP Sleep and Charge, use a USB charging protocol standard cable or cable adapter with an external device.
- 21 TUV Low Blue Light is the Display Compliance Test Specification quality. See https://www.certipedia.com/?locale=en#search for more details.
- 23 Actual battery Watt-hours (Wh) will vary from design capacity. Battery capacity will naturally decrease with shelf life, time, usage, environment, temperature, system configuration, loaded apps, features, power management settings and other factors.
- <sup>24</sup> Must activate within 180 days of Windows activation.
- 25 Offer available worldwide (excluding China and embargoed countries or other countries identified as restricted by applicable law or regulation) to new and existing subscribers who are 18+. Click on the Adobe icon in the start menu to redeem a 1-month free trial membership for select Adobe software. The software is tied to the device and is not transferrable. If you would like to sign up for an auto-renewing subscription, you can provide your payment method at sign-up. By adding a payment method, your subscription will automatically renew at the then current rate on your renewal date until you cancel. If you cancel before the end of the one-month free trial, you won't be charged. You can cancel your subscription anytime via your Adobe Account page or by contacting Customer Support. Please see current prices for Adobe products available in this offer. Offer not available to Education, OEM, or volume licensing customers. Subject to availability where the recipient resides. Additional terms and conditions may apply. VOID WHERE PROHIBITED OR RESTRICTED BY LAW.
- Based on U.S. EPEAT® registration according to IEEE 1680.1-2018 EPEAT® EPEAT® status varies by country. Visit www.epeat.net for more information.
- <sup>28</sup> Eyesafe® Display for Low Blue Light is the Display Compliance Test Specification quality. See https://eyesafe.com for more details.
- 29 AMD FreeSync" FreeSync" Premium/FreeSync" Replay Premium/FreeSync" Replay Premium Pro is enabled on FHID or higher resolution displays, with the additional requirements, such as at least 120Hz refresh rate, low framerate compensation, and HDR to support AMD FreeSync" Premium/FreeSync" Premium/FreeSync Replay. AMD Radeon Graphics and/or AMD A-Series APU-compliant monitors with DisplayPort/HDMI Adaptive-Sync required. AMD 15.11 Crimson driver (or newer) required to support FreeSync over HDMI. Adaptive refresh rates vary by monitor. AMD FreeSync™ /FreeSync™ Premium/FreeSync™ Replay Premium Pro technology requires AMD Radeon graphics and a display certified by AMD. See www.amd.com/freesync for complete details. GD-127 © 2023 Advanced Micro Devices, Inc. All rights reserved. AMD, the AMD Arrow logo, Radeon, FreeSync, and combinations thereof are trademarks of Advanced Micro Devices, Inc.
- $^{37}$  Weight and system dimensions may fluctuate due to configuration and manufacturing variances.
- <sup>39</sup> Percentage of ocean-bound plastic contained in each component varies by product.
- <sup>40</sup> Laptops manufactured with recycled metal material in product cover. Percentage of recycled metal varies by product.
- <sup>41</sup> Keyboard components contain post-consumer recycled plastic. Percentage of post consumer recycled contained in each component varies by product.
- <sup>42</sup> For optimal performance and battery chargeability while gaming and rendering, use the power adapter that ships with the PC. You can use the 100W/20V Type-C adapter or power bank when running light loading tasks. System-off charging is only supported on 20V Type-C adapter or power bank.
- The Flicker-free capability is eliminating screen flickering through integrating DC-dimming LED backlights or LED emissions. OLED panel is functional with DC-DIMMING when above 100 nits.
- 46 Bluetooth\* 5.3 operation requires Microsoft OS/Chrome OS support. Until Microsoft OS/Chrome OS support is available, Bluetooth\* 5.3 will function as Bluetooth\* 5.2 or lower.

© Copyright 2025 HP Development Company, LP. 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 © Copyright 2025 Hr.) Development Company, L.P., ine information contained nerein is subject to enange without notice. The only worranties for ir Hr products and services and services are set forth in the express warranty statements such products and services are set forth in the express warranty statements such products and services are set forth in the express warranty statements accompanying schements are 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-0° and USB-0° are registered trademarks of USB Implementers Forum. DisplayPort\* and the DisplayPort\* and the DisplayPort\* and other countries. McRee und to Markee LuceSide are trademarks or registered trademarks or the United States and other countries. McRee und McRee LuceSide are trademarks or registered trademarks and/or registered trademarks or the United States and other countries. McRee und McRee LuceSide are trademarks or registered trademarks and other countries. Interest trademarks or trademarks or the United States and other countries. McRee LuceSide are trademarks or registered trademarks and other countries. Interest trademarks or trademarks or the United States and other countries. Interest trademarks or registered trademarks or the United States and other countries. Interest trademarks or registered trademarks or registered trademarks or the United States and other countries. Interest trademarks or registered trademarks or trademarks or registered trademarks or apply over time for updates. See http://www.windows.co

