

# OMEN Gaming Laptop 16-am0017na

## Bold performance without the burnout

The new OMEN 16 not only has the power of the latest next-gen Intel®<sup>1</sup> and NVIDIA® components, but it also has the proper thermal innovations to keep them from burning out. Pair that with OMEN AI for maximum possible FPS at the click of a button and Unleashed Mode for that extra boost in performance, and you have our most reliably powerful laptop yet.



\*Product image may differ from actual product



### Cooling that keeps up

Handle the heat with high efficiency fans that reduce noise and keeps your laptop cool while you game on.



### Instantly raise your game

Get maximum possible FPS with OMEN AI and boost your power beyond its base limits with Unleashed Mode.



### Next generation of performance

Get the best possible performance with the latest next-gen NVIDIA® GPUs and Intel® Processors<sup>1</sup>.

## Sustainability in action

### Steady connection, even steadier aim

Never miss a call or headshot with a high refresh rate display<sup>2</sup> and built-in FHD webcam<sup>3</sup>.

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## 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 way.<sup>4</sup>

**Game without compromise. Go beyond performance with Intel Core and Intel Core Ultra Processors**  
Be everything you want to be, in-game and out with optimized performance and new features. Play harder and work smarter with Intel Core Processors.<sup>5</sup>

**NVIDIA® G-SYNC™**  
By synchronizing the refresh rates of your GPU and display, NVIDIA® G-SYNC™ technology delivers gameplay that’s sharp, fluid, and stutter-free with minimal input lag.

**Wide Quad Extended Graphics Array Display**  
Get lost in the captivating definition with 2560 × 1600 pixels.<sup>6</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>7</sup>

**3ms response time**  
How fast your display’s pixels respond is crucial for a smooth picture. With a 3-millisecond response time, your action-filled content will look crisp and fluid without motion blur.<sup>8</sup>

**Flicker-free**  
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.<sup>9</sup>

**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.<sup>10</sup>

**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.<sup>11</sup>

**Keyboard contains post-consumer recycled plastic**  
We’re bringing a more thoughtful design to our keyboards by using post-consumer recycled plastic in the design.<sup>12</sup>

**ENERGY STAR®**  
This product meets the criteria that require computers to operate efficiently to get ENERGY STAR certification.<sup>13</sup>

**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.<sup>14</sup>

**Wi-Fi 6E (2x2) and Bluetooth® 5.3 wireless card**  
Enjoy faster speeds, improved performance, greater capacity and lower latencies than earlier iterations with Wi-Fi 6E and Bluetooth® 5.3 wireless card.<sup>15</sup>

**HP True Vision FHD**  
Video chat in vibrant clarity with Full HD resolution, even in low light, and make every conversation a face-to-face experience for a better way to stay in touch.<sup>16</sup>

**USB Type-A 5Gbps signaling data rate**  
Plug in your external storage with this USB Type-A port, featuring 5Gbps signaling data rate.<sup>17</sup>

**McAfee® LiveSafe™**  
Protect your operating system with a free 30-day McAfee® LiveSafe™ subscription.<sup>18</sup>

**1TB PCIe® Gen4 NVMe™ M.2 SSD**  
With high-speed data transfer, the 1 TB PCIe Gen4 NVMe M.2 SSD offers lightning fast speed and efficient storage.<sup>19</sup>

**HP Audio Boost**  
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 Cloud III Wireless BLK/RED GAM HEADSET  
77Z46AA



HyperX Knight Backpack  
8C525AA



HyperX Pulsefire Haste 2 Pro 4k Wireless Gaming  
Mouse  
A1KY5AA



3-year pickup and return  
UM963E



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## Specifications



## Performance

**Operating system**  
Windows 11 Home

**Processor**  
Intel® Core™ i714650HX (up to 5.2 GHz with Intel® Turbo Boost Technology, 30 MB L3 cache, 16 cores, 24 threads)<sup>6,7</sup>  
Processor family: Intel® Core™ i7 14th generation processor

**Chipset**  
Intel® HM770

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

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

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

**Display**  
40.6 cm (16") diagonal, WQXGA (2560 x 1600), 60-240 Hz, 3 ms response time, IPS, micro-edge, anti-glare, Low Blue Light, 500 nits, 100% sRGB<sup>17,21,28</sup>

**Screen-to-body ratio**  
87.49%<sup>18</sup>

**Power**  
230 W 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**  
Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card  
Modern Standby (Connected);HP Extended Range Wireless LAN

**Ports**  
1 USB Type-A 10Gbps signaling rate; 2 USB Type-A 5Gbps signaling rate; 1 AC smart pin; 1 HDMI 2.1; 1 headphone/microphone combo; 1 RJ-45; 1 USB Type-C® 10Gbps signaling rate (USB Power Delivery 3.0, DisplayPort™ 1.4, HP Sleep and Charge)<sup>19,42</sup>

**Expansion slots**  
2 M.2 (SSD)

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

## Sustainability

**Energy star certified**  
ENERGY STAR® certified

**Sustainable impact specifications**  
Ocean-bound plastic in speaker enclosure(s) and bezel; Keyboard keycaps and scissors contain post-consumer recycled plastic<sup>39,41</sup>

## Design

**Product color**  
Shadow black, black chrome logo  
Paint finish

## Software

**HP apps**  
HP Support Assistant; HP Connection Optimizer; OMEN Gaming Hub  
**Software**  
Otter.ai;  
1 month trial for new Microsoft 365 customers<sup>24</sup>

**Service & support**  
McAfee Online Protection 30-day trial; 1-month Adobe free trial offer; PC Game Pass 3-month trial<sup>2,25</sup>

## Additional information

**Part Number**  
P/N: C08TDEA #ABU  
UPC/EAN code: 199251835759

**Weight**  
2.43 kg;  
Packed: 3.77 kg

**Dimensions**  
35.75 x 26.9 x 2.37 cm (front); 35.75 x 26.9 x 2.54 cm (rear);  
Packed: 6.3 x 56.7 x 30.5 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**  
NVIDIA® G-SYNC® support

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

**Sensors**  
IR thermal sensor



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## Footnotes

### Messaging Footnotes

<sup>1</sup> 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 is not a measurement of higher performance.

<sup>2</sup> All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

<sup>3</sup> Camera resolution refers to the image sensor active pixels. The actual image capture pixels and aspect ratio depend on the app selected.

<sup>4</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>.

<sup>5</sup> Intel and Core are trademarks of Intel Corporation in the U.S. and other countries.

<sup>6</sup> WQXGA content is required to view WQXGA images.

<sup>7</sup> 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>8</sup> All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary, either higher or lower.

<sup>9</sup> The flicker-free capability eliminates screen flickering through integrating DC-dimming LED backlights.

<sup>10</sup> PC Game Pass: Subscription continues automatically at regular monthly price unless cancelled. Subject to [xbox.com/subscription/terms](https://xbox.com/subscription/terms). Terms and exclusions apply. Game catalog varies over time, by region, and by device. All rights reserved. [xbox.com/pcgamepass](https://xbox.com/pcgamepass), [xbox.com/en-US/xbox-game-pass?msocid=3f8c879b624a6bb10ac4924e63d86a01](https://xbox.com/en-US/xbox-game-pass?msocid=3f8c879b624a6bb10ac4924e63d86a01)

<sup>11</sup> Percentage of ocean-bound plastic contained in each component varies by product.

<sup>12</sup> Keyboard components contain post-consumer recycled plastic. Percentage of post consumer recycled contained in each component varies by product.

<sup>13</sup> Based on U.S. EPEAT® registration according to IEEE 16801-2018 EPEAT®. EPEAT® status varies by country. Visit [www.epeat.net](http://www.epeat.net) for more information.

<sup>14</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.

<sup>15</sup> Wi-Fi 6E requires a Wi-Fi 6E router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 6E is backwards compatible with prior 802.11 specs. And available in countries where Wi-Fi 6E is supported. 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. 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.

<sup>16</sup> Features may require software or other 3rd party applications to provide the described functionality.

<sup>17</sup> Actual throughput may vary.

<sup>18</sup> Internet service required and not included. Subscription required after 30 days.

<sup>19</sup> For hard drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 35GB of system disk is reserved for system recovery software.

### Technical Specifications Footnotes

<sup>1</sup> 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.

<sup>2</sup> 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 won't be able to turn it back on.

<sup>3</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.

<sup>6</sup> 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.

<sup>7</sup> Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration. See <http://www.intel.com/technology/turboboost/> for more information.

<sup>11</sup> 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>12</sup> Wi-Fi 6E requires a Wi-Fi 6E router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 6E is backwards compatible with prior 802.11 specs. And available in countries where 6GHz is supported.

<sup>17</sup> All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

<sup>18</sup> 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.

<sup>21</sup> TUV Low Blue Light is the Display Compliance Test Specification quality. See <https://www.certipedia.com/?locale=en#search> for more details.

<sup>23</sup> 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.

<sup>25</sup> 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 transferable. 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.

<sup>27</sup> Based on U.S. EPEAT® registration according to IEEE 16801-2018 EPEAT®. EPEAT® status varies by country. Visit [www.epeat.net](http://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.

<sup>37</sup> 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>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.

<sup>45</sup> 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 100nits.

<sup>46</sup> 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.

<sup>50</sup> Copilot in Excel requires AutoSave to be enabled, meaning the file must be saved to OneDrive; it doesn't function with unsaved files. Copilot features in Outlook apply to accounts with @outlook.com, @hotmail.com, @live.com, or @msn.com email addresses and are available in Outlook.com, Outlook built into Windows, Outlook on Mac, and iOS and Android apps. AI features only available to Microsoft 365 Family subscription owner and cannot be shared; usage limits apply. Learn more [Understanding AI credits - Microsoft Support](#). Microsoft Copilot features in Microsoft 365 are not available in China or Macao SAR.

