

# OMEN Gaming Laptop 16-am0058nn (C5BD5EA)



## Bold performance without the burnout

The new OMEN 16 not only has the power of the latest next-gen Intel®[1] 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.



### 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[1].

## Featuring

### Intel® Core™ Processors

Boost your mobile productivity with Intel® Core™ Processors, featuring a performance hybrid architecture that makes it easy to game, stream, and create at the same time. [1]

### 144 Hz FHD anti-glare display

Reduce frustrating lag and image ghosting with a display that combines a 144 Hz refresh rate and a 1080p resolution for smooth, crisp gameplay. [2]

### Anti-glare panel

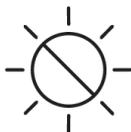
Enjoy the sun and your favorite content with this anti-glare panel. Non-reflective and low gloss means you'll get less glare while you're outside.

### 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. [4]

### 16:10 aspect ratio

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



## Specifications

<b>Operating System Software</b>	FreeDOS 3.0
<b>Product Color Description (fixed)</b>	Shadow black, black chrome logo
<b>Product Design</b>	Paint finish
<b>Processor Family</b>	Intel® Core™ 7 processor
<b>Processor Name</b>	Intel® Core™ 7 240H (up to 5.2 GHz with Intel® Turbo Boost Technology, 24 MB L3 cache, 10 cores, 16 threads) <sup>[6,7]</sup>
<b>Chipset</b>	Intel® integrated SoC
<b>Standard Memory Description 01</b>	16 GB DDR5-5600 MT/s (2 x 8 GB)
<b>Hard Drive Description (01)</b>	1 TB PCIe® Gen4 NVMe™ M.2 SSD
<b>Graphics Card Segment 01</b>	Integrated
<b>GScardseg 01 Available Card 01</b>	Intel® Graphics
<b>Display Description (metric)</b>	40.6 cm (16") diagonal, 2K (1920 x 1200), 60-144 Hz, IPS, micro-edge, anti-glare, 300 nits, 62.5% sRGB
<b>Display Description</b>	16" diagonal, 2K (1920 x 1200), 60-144 Hz, IPS, micro-edge, anti-glare, 300 nits, 62.5% sRGB
<b>Screen-To-Body Ratio (without speakers)</b>	87.49% <sup>[18]</sup>
<b>Audio Features</b>	DTS:X® Ultra; Dual speakers; HP Audio Boost; HyperX
<b>Product Dimensions (metric)</b>	35.75 x 26.9 x 2.37 cm (front); 35.75 x 26.9 x 2.54 cm (rear)
<b>Product Dimensions (imperial)</b>	14.07 x 10.59 x 0.94 in (front); 14.07 x 10.59 x 1 in (rear)
<b>Weight (metric)</b>	2.43 kg
<b>Weight (imperial)</b>	5.36 lb
<b>Package Dimensions (metric)</b>	6.3 x 56.7 x 30.5 cm
<b>Package Dimensions (imperial)</b>	2.48 x 22.32 x 12 in
<b>Package Weight (metric)</b>	3.77 kg
<b>Package Weight (imperial)</b>	8.33 lb
<b>Keyboard</b>	Full-size, backlit, shadow black keyboard with numeric keypad and 26-Key Rollover Anti-Ghosting Key technology
<b>Pointing Device</b>	HP Imagepad
<b>Sensors</b>	IR thermal sensor
<b>Camera</b>	HP True Vision 1080p FHD camera with temporal noise reduction and integrated dual array digital microphones
<b>External I/O Ports</b>	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>
<b>Expansion Slots</b>	2 M.2 (SSD)
<b>Network Interface</b>	Integrated 10/100/1000 GbE LAN
<b>Wireless Technologies</b>	Realtek Wi-Fi 6 (2x2) and Bluetooth® 5.4 wireless card <sup>[11,12,13,46]</sup>
<b>Power Supply Type</b>	230 W AC power adapter
<b>Battery Type</b>	4-cell, 70 Wh Li-ion polymer ( <i>[23]</i> )
<b>Battery Life</b>	Up to 5 hours and 45 minutes <sup>[3]</sup>
<b>Battery Recharge Time</b>	Supports battery fast charge: approximately 50% in 30 minutes <sup>[5]</sup>
<b>Maximum Battery Life Video Playback</b>	Up to 9 hours and 45 minutes
<b>Energy Star Certified</b>	ENERGY STAR® certified
<b>Sustainable Impact Specifications</b>	Ocean-bound plastic in speaker enclosure(s) and bezel; Keyboard keycaps and scissors contain post-consumer recycled plastic
<b>Security Management</b>	Camera privacy shutter; Trusted Platform Module (Firmware TPM) support
<b>UPC Number</b>	199485884035

## Top Recommended Displays, Accessories and Services

No Top Recommended Displays, Accessories and Services

## 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. Intel's numbering is not a measurement of higher performance.

[2] All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

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

## Technical Specifications Footnotes

[3] MobileMark 25 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-25/> for additional details.

[5] 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. 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.

[11] Wi-Fi 6 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.

[12] 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.

[13] Wi-Fi 6 (802.11ax) is not supported in Belarus where Wi-Fi settings will be optimized to local regulatory requirements (802.11ac).

[18] Percent of active plus nonactive viewing area to active viewing area plus border. Measure with lid vertical to the desk.

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

[42] 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.

[46] Bluetooth® 5.4 operation requires Microsoft OS/Chrome OS support. Until Microsoft OS/Chrome OS support is available, Bluetooth® 5.4 will function as Bluetooth® 5.3 or lower.

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