ProductSheet OMEN Gaming Laptop 16-ap0002nc (C2JG5EA)

Bold performance that doesn't burn out

The new OMEN 16 not only has the power of the latest next-gen AMD[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 NVIDA® GPUs and AMD Processors[1].

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.^[4]

This Changes Everything

Welcome to the new era of performance. AMD Ryzen 8000 Series ushers in the speed for gamers and creators with the power to tackle any game or workflow. An advanced processor for everyone that extends AMD performance to power your PC.^[5]

Wide Quad Extended Graphics Array Display

Get lost in the captivating definition with 2560 × 1600 pixels. ^[7]

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.^[8]

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. ^[9]







Specifications

Product color Shadow black, black chrome logp Processor Tamily AMB Ryzem* 98 processor Processor AMB Ryzem* 98 processor Chipset AMD Integrated SoC Memory 32 dB DBFS-200 MT/s (2 x 16 GB) Internal Storage 2 TB PCLeV Gene 40 WWer M.2 SSD Product design Paint finish Graphics Discrete Graphics (Integrated) MVDIA* Geforce RTM* SOTO Laptop GPU (6 GB GDDR7 dedicated) Graphics (Integrated) AMD Radeom* 61 DM Graphics Obsplay 40.6 cm (16*) diagnal, WXXA CSSD x 1500), 60-240 Hz, 3 ms response time, IPS, micro-edge, anti-glare, Low Blue Light, 500 nits, 100% sRGB Display 40.6 cm (16*) Display size (diagonal) 4.6 cm (16*) Display size (diagonal) 4.6 cm (16*) Display size (diagonal) 4.6 cm (16*) Display size (diagonal) 4.0 cm (16*) Display size (diagonal) 4.0 cm (16*) Display size (diagonal) 1.6* Audio D 75:X* UITa Dual speakers; HP Audio Boost; HyperX Dimensions (W x D xH) 3.5 75 x 26.9 x 0.94 in (front; 1.4.0 7 x 10.5 9 x 1.2 in frea) Welght 5.	Operating system	Windows 11 Home
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Weight 5.4 tb Keyboard Full-size, 4-zone RGB backlit, shadow black keyboard with numeric keypad and 26-Key Rollover Anti-Ghosting Key technology Pointing device HP Imagepad Input devices IR thermal sensor Camera HP True Vision 1080p FHD camera with temporal noise reduction and integrated dual array digital microphones 1 USB Type-A 10Gbps signaling rate; 2 USB Type-A 5Gbps signaling rate; 1 AC smart pin; 1 HDMI 2.1; 1 Ports 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[19,42] Package dimensions (W x D x H) 6.3 x 56.7 x 30.5 cm Package weight 3.7 kg Network interface Integrated 10/100/1000 GbE LAN Wireless MediaTek WI-Fi 6E MT7922 (2x2) and Bluetooth® 5.3 wireless card Power supply type 230 W AC power adapter Battery type 6-cell, 83 Wh Li-ion polymer ((23)) Battery recharge time Supports battery fast charge: approximately 50% in 30 minutes ^[5] Energy star certified ENERGY STAR® certified Sustainable impact specifications Ocean-bound plastic in bezel; Keyboard keycaps and scissors contain post-consumer recycled plastic Security management Camera privacy shutter; Trusted Platform Module (Firmware TPM) support	Dimensions (W x D x H)	14.07 x 10.59 x 0.94 in (front); 14.07 x 10.59 x 1.12 in (rear)
Keyboard Full-size, 4-zone RGB backlit, shadow black keyboard with numeric keypad and 26-Key Rollover Anti-Ghosting Key technology Pointing device HP Imagepad Input devices IR thermal sensor Camera HP True Vision 1080p FHD camera with temporal noise reduction and integrated dual array digital microphones number of the temporal noise reduction and integrated dual array digital microphones number of the temporal noise reduction and integrated dual array digital microphones number of the temporal noise reduction and integrated dual array digital microphones number of the temporal noise reduction and integrated dual array digital microphones number of temporal noise reduction and integrated dual array digital microphones number of temporal noise reduction and integrated dual array digital microphones number of temporal noise reduction and integrated dual array digital microphones number of temporal noise reduction and integrated dual array digital microphones number of temporal noise reduction and integrated dual array digital microphones number of temporal noise reduction and integrated dual array digital microphones number of temporal noise reduction and integrated dual array digital microphones number of temporal noise reduction and integrated dual array digital microphones number of temporal noise reduction and integrated dual array digital microphones R	Weight	2.44 kg
KeyboardtechnologyPointing deviceHP ImagepadInput devicesIR thermal sensorCameraHP True Vision 1080p FHD camera with temporal noise reduction and integrated dual array digital microphonesPorts1 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) ^[19,42] Package dimensions (W x D x H)6.3 x 56.7 x 30.5 cmPackage weight3.7 kgNetwork interfaceIntegrated 10/100/1000 GbE LANWirelessMediaTek Wi-Fi 6E MT7922 (2x2) and Bluetooth® 5.3 wireless cardPower supply type230 W AC power adapterBattery typeG-cell, 83 Wh Li-ion polymer (<i>(23))</i> Battery recharge timeSupports battery fast charge: approximately 50% in 30 minutes ^[5] Energy star certifiedENERGY STAR® certifiedSustainable impact specificationsOcean-bound plastic in bezel; Keyboard keycaps and scissors contain post-consumer recycled plasticSecurity managementCamera privacy shutter; Trusted Platform Module (Firmware TPM) supportSoftware - Productivity & finance1 month trial for new Microsoft 365 customers ^[24] Cloud service25 GB Dropbox storage for 12 months ^[1]	Weight	5.4 lb
Input devicesIR thermal sensorCameraHP True Vision 1080p FHD camera with temporal noise reduction and integrated dual array digital microphones1 USB Type-A 10Gbps signaling rate; 2 USB Type-A SGbps signaling rate; 1 AC smart pin; 1 HDM12.1; 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) ^[19,42] Package dimensions (W x D x H)6.3 x 56.7 x 30.5 cmPackage weight3.7 kgNetwork interfaceIntegrated 10/100/1000 GbE LANWirelessMediaTek Wi-Fi 6E MT7922 (2x2) and Bluetooth® 5.3 wireless cardPower supply type230 W AC power adapterBattery type6-cell, 83 Wh Li-ion polymer ([23])Battery recharge timeSupports battery fast charge: approximately 50% in 30 minutes ^[5] Energy star certifiedENERGY STAR® certifiedSustainable impact specificationsOcean-bound plastic in bezel; Keyboard keycaps and scissors contain post-consumer recycled plasticSecurity managementCamera privacy shutter; Trusted Platform Module (Firmware TPM) supportSoftware - Productivity & finance1 month trial for new Microsoft 365 customers ^[24] Cloud service25 GB Dropbox storage for 12 months ^[11]	Keyboard	
CameraHP True Vision 1080p FHD camera with temporal noise reduction and integrated dual array digital microphonesPorts1 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) ^[19,42] Package dimensions (W x D x H)6.3 x 56.7 x 30.5 cmPackage weight3.7 kgNetwork interfaceIntegrated 10/100/1000 GbE LANWirelessMediaTek Wi-Fi 6E MT7922 (2x2) and Bluetooth® 5.3 wireless cardPower supply type230 W AC power adapterBattery type6-cell, 83 Wh Li-ion polymer ([23])Battery recharge timeSupports battery fast charge: approximately 50% in 30 minutes ^[5] Energy star certifiedENERGY STAR® certifiedSustainable impact specificationsOcean-bound plastic in bezel; Keyboard keycaps and scissors contain post-consumer recycled plasticSecurity managementCamera privacy shutter; Trusted Platform Module (Firmware TPM) supportSoftware includedMcAfee Online Protection 30-day trialSoftware - Productivity & finance1 month trial for new Microsoft 365 customers ^[24] Cloud service25 GB Dropbox storage for 12 months ^[11]	Pointing device	HP Imagepad
Ports1 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) ^[19,42] Package dimensions (W x D x H)6.3 x 56.7 x 30.5 cmPackage weight3.7 kgNetwork interfaceIntegrated 10/100/1000 GbE LANWirelessMediaTek Wi-Fi 6E MT7922 (2x2) and Bluetooth® 5.3 wireless cardPower supply type230 W AC power adapterBattery type6-cell, 83 Wh Li-ion polymer ([23])Battery recharge timeSupports battery fast charge: approximately 50% in 30 minutes ^[5] Energy star certifiedENERGY STAR® certifiedSustainable impact specificationsOcean-bound plastic in bezel; Keyboard keycaps and scissors contain post-consumer recycled plasticSecurity managementCamera privacy shutter; Trusted Platform Module (Firmware TPM) supportSoftware includedMcAfee Online Protection 30-day trialSoftware - Productivity & finance1 month trial for new Microsoft 365 customers ^[24] Cloud service25 GB Dropbox storage for 12 months ^[1]	Input devices	IR thermal sensor
Portsheadphone/microphone combo; 1 RJ-45; 1 USB Type-C® 10Gbps signaling rate (USB Power Delivery 3.0, DisplayPort™ 1.4, HP Sleep and Charge) ^[19,42] Package dimensions (W x D x H)6.3 x 56.7 x 30.5 cmPackage weight3.7 kgNetwork interfaceIntegrated 10/100/1000 GbE LANWirelessMediaTek Wi-Fi 6E MT7922 (2x2) and Bluetooth® 5.3 wireless cardPower supply type230 W AC power adapterBattery type6-cell, 83 Wh Li-ion polymer ([23])Battery recharge timeSupports battery fast charge: approximately 50% in 30 minutes ^[5] Energy star certifiedENERGY STAR® certifiedSustainable impact specificationsOcean-bound plastic in bezel; Keyboard keycaps and scissors contain post-consumer recycled plasticSoftware includedMcAfee Online Protection 30-day trialSoftware - Productivity & finance1 month trial for new Microsoft 365 customers ^[24] Cloud service25 GB Dropbox storage for 12 months ^[1]	Camera	HP True Vision 1080p FHD camera with temporal noise reduction and integrated dual array digital microphones
Package weight3.7 kgNetwork interfaceIntegrated 10/100/1000 GbE LANWirelessMediaTek Wi-Fi 6E MT7922 (2x2) and Bluetooth® 5.3 wireless cardPower supply type230 W AC power adapterBattery type6-cell, 83 Wh Li-ion polymer ([23])Battery recharge timeSupports battery fast charge: approximately 50% in 30 minutes ^[5] Energy star certifiedENERGY STAR® certifiedSustainable impact specificationsOcean-bound plastic in bezel; Keyboard keycaps and scissors contain post-consumer recycled plasticSecurity managementCamera privacy shutter; Trusted Platform Module (Firmware TPM) supportSoftware includedMcAfee Online Protection 30-day trialSoftware - Productivity & finance1 month trial for new Microsoft 365 customers ^[24] Cloud service25 GB Dropbox storage for 12 months ^[1]	Ports	headphone/microphone combo; 1 RJ-45; 1 USB Type-C [®] 10Gbps signaling rate (USB Power Delivery 3.0,
Network interfaceIntegrated 10/100/1000 GbE LANWirelessMediaTek Wi-Fi 6E MT7922 (2x2) and Bluetooth® 5.3 wireless cardPower supply type230 W AC power adapterBattery type6-cell, 83 Wh Li-ion polymer ([23])Battery recharge timeSupports battery fast charge: approximately 50% in 30 minutes ^[5] Energy star certifiedENERGY STAR® certifiedSustainable impact specificationsOcean-bound plastic in bezel; Keyboard keycaps and scissors contain post-consumer recycled plasticSecurity managementCamera privacy shutter; Trusted Platform Module (Firmware TPM) supportSoftware includedMcAfee Online Protection 30-day trialSoftware - Productivity & finance1 month trial for new Microsoft 365 customers ^[24] Cloud service25 GB Dropbox storage for 12 months ^[1]	Package dimensions (W x D x H)	6.3 x 56.7 x 30.5 cm
WirelessMediaTek Wi-Fi 6E MT7922 (2x2) and Bluetooth® 5.3 wireless cardPower supply type230 W AC power adapterBattery type6-cell, 83 Wh Li-ion polymer ([23])Battery recharge timeSupports battery fast charge: approximately 50% in 30 minutes ^[5] Energy star certifiedENERGY STAR® certifiedSustainable impact specificationsOcean-bound plastic in bezel; Keyboard keycaps and scissors contain post-consumer recycled plasticSecurity managementCamera privacy shutter; Trusted Platform Module (Firmware TPM) supportSoftware includedMcAfee Online Protection 30-day trialSoftware - Productivity & finance1 month trial for new Microsoft 365 customers ^[24] Cloud service25 GB Dropbox storage for 12 months ^[1]	Package weight	3.7 kg
Power supply type230 W AC power adapterBattery type6-cell, 83 Wh Li-ion polymer ([23])Battery recharge timeSupports battery fast charge: approximately 50% in 30 minutes ^[5] Energy star certifiedENERGY STAR® certifiedSustainable impact specificationsOcean-bound plastic in bezel; Keyboard keycaps and scissors contain post-consumer recycled plasticSecurity managementCamera privacy shutter; Trusted Platform Module (Firmware TPM) supportSoftware includedMcAfee Online Protection 30-day trialSoftware - Productivity & finance1 month trial for new Microsoft 365 customers ^[24] Cloud service25 GB Dropbox storage for 12 months ^[1]	Network interface	Integrated 10/100/1000 GbE LAN
Battery type6-cell, 83 Wh Li-ion polymer ([23])Battery recharge timeSupports battery fast charge: approximately 50% in 30 minutes ^[5] Energy star certifiedENERGY STAR® certifiedSustainable impact specificationsOcean-bound plastic in bezel; Keyboard keycaps and scissors contain post-consumer recycled plasticSecurity managementCamera privacy shutter; Trusted Platform Module (Firmware TPM) supportSoftware includedMcAfee Online Protection 30-day trialSoftware - Productivity & finance1 month trial for new Microsoft 365 customers ^[24] Cloud service25 GB Dropbox storage for 12 months ^[1]	Wireless	MediaTek Wi-Fi 6E MT7922 (2x2) and Bluetooth [®] 5.3 wireless card
Battery type([23])Battery recharge timeSupports battery fast charge: approximately 50% in 30 minutes ^[5] Energy star certifiedENERGY STAR® certifiedSustainable impact specificationsOcean-bound plastic in bezel; Keyboard keycaps and scissors contain post-consumer recycled plasticSecurity managementCamera privacy shutter; Trusted Platform Module (Firmware TPM) supportSoftware includedMcAfee Online Protection 30-day trialSoftware - Productivity & finance1 month trial for new Microsoft 365 customers ^[24] Cloud service25 GB Dropbox storage for 12 months ^[1]	Power supply type	230 W AC power adapter
Energy star certifiedENERGY STAR® certifiedSustainable impact specificationsOcean-bound plastic in bezel; Keyboard keycaps and scissors contain post-consumer recycled plasticSecurity managementCamera privacy shutter; Trusted Platform Module (Firmware TPM) supportSoftware includedMcAfee Online Protection 30-day trialSoftware - Productivity & finance1 month trial for new Microsoft 365 customers ^[24] Cloud service25 GB Dropbox storage for 12 months ^[1]	Battery type	
Sustainable impact specificationsOcean-bound plastic in bezel; Keyboard keycaps and scissors contain post-consumer recycled plasticSecurity managementCamera privacy shutter; Trusted Platform Module (Firmware TPM) supportSoftware includedMcAfee Online Protection 30-day trialSoftware - Productivity & finance1 month trial for new Microsoft 365 customers ^[24] Cloud service25 GB Dropbox storage for 12 months ^[1]	Battery recharge time	Supports battery fast charge: approximately 50% in 30 minutes ^[5]
Security management Camera privacy shutter; Trusted Platform Module (Firmware TPM) support Software included McAfee Online Protection 30-day trial Software - Productivity & finance 1 month trial for new Microsoft 365 customers ^[24] Cloud service 25 GB Dropbox storage for 12 months ^[1]	Energy star certified	ENERGY STAR® certified
Software includedMcAfee Online Protection 30-day trialSoftware - Productivity & finance1 month trial for new Microsoft 365 customers ^[24] Cloud service25 GB Dropbox storage for 12 months ^[1]	Sustainable impact specifications	Ocean-bound plastic in bezel; Keyboard keycaps and scissors contain post-consumer recycled plastic
Software - Productivity & finance 1 month trial for new Microsoft 365 customers ^[24] Cloud service 25 GB Dropbox storage for 12 months ^[1]		Camera privacy shutter; Trusted Platform Module (Firmware TPM) support
Cloud service 25 GB Dropbox storage for 12 months ^[1]		McAfee Online Protection 30-day trial
	Software - Productivity & finance	1 month trial for new Microsoft 365 customers ^[24]
UPC number 199485351360		25 GB Dropbox storage for 12 months ^[1]
	UPC number	199485351360

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

[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] AMD Ryzen 8000 Series ushers in the speed for gamers and creators with the power to tackle anything.

[7] WQXGA content is required to view WQXGA images.

[8] 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

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

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.

[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. 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.

[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.

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