



# OMEN by HP Laptop 16-c0009nj (4T9M1EA)



## Overview

### 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.



### Customize with OMEN Gaming Hub

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



### 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]

# Features



## 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.<sup>[4]</sup>



## The Ultimate Play

The GeForce RTX™ 3070 is powered by Ampere—NVIDIA's 2nd gen RTX architecture. Built with enhanced RT Cores and Tensor Cores, new streaming multiprocessors, and high-speed G6 memory, it gives you the power you need to rip through the most demanding games.<sup>[5]</sup>



## HP QuickDrop

Wirelessly transfer photos, videos, documents and more between your PC and mobile device.



## 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.<sup>[1]</sup>



## 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.<sup>[6]</sup>



## 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.<sup>[7]</sup>

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*[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] ©2022 NVIDIA Corporation. NVIDIA, the NVIDIA logo, GeForce, and GeForce RTX are registered trademarks and/or trademarks of NVIDIA Corporation in the United States and other countries. All other trademarks and copyrights are the property of their respective owners.*

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

*[7] 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.*

## 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™ 9 processor
<b>Processor</b>	AMD Ryzen™ 9 5900HX (up to 4.6 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>	32 GB DDR4-3200 MHz RAM (2 x 16 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>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 size (diagonal)</b>	40.9 cm (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 <i>(Dimensions vary by configuration)</i>
<b>Weight</b>	2.31 kg <i>(Weight varies by configuration)</i>
<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>	Realtek Wi-Fi 6 (2x2) and Bluetooth® 5.2 wireless card (supporting gigabit data rate) <sup>[11,12,13]</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 9 hours and 15 minutes <sup>[3]</sup>
<b>Battery recharge time</b>	Supports battery fast charge: approximately 50% in 45 minutes <sup>[5]</sup>
<b>Battery weight</b>	0.63 lb
<b>Battery weight</b>	290 g
<b>Ecolabels</b>	EPEAT® registered <sup>[27]</sup>
<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>Pre-installed software</b>	ExpressVPN (30 day free trial); LastPass Premium (30 day free trial) <sup>[22]</sup>
<b>Software included</b>	McAfee LiveSafe™
<b>Software - Productivity &amp; finance</b>	1 month trial for new Microsoft 365 customers <sup>[24]</sup>
<b>Cloud service</b>	25 GB Dropbox storage for 12 months <sup>[1]</sup>
<b>UPC number</b>	196188287279
<b>Manufacturer Warranty</b>	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.

## Additional specifications

<b>Additional information about HP</b>	<a href="http://www.hp.com">http://www.hp.com</a>
<b>Battery capacity</b>	70
<b>Battery capacity uom</b>	Wh
<b>Battery cells number</b>	4
<b>Battery life</b>	Long Life
<b>Battery life video playback</b>	Up to 10 hours and 45 minutes
<b>Battery type</b>	Li-ion polymer
<b>Bluetooth version</b>	Bluetooth® 5.2
<b>Brightness</b>	300 nits
<b>Camera brand</b>	HP Wide Vision
<b>Camera microphone</b>	integrated dual array digital microphones
<b>Camera resolution (vertical)</b>	720p
<b>Camera resolution standard</b>	HD
<b>Color</b>	Mica silver
<b>Color gamut</b>	100% sRGB
<b>Datasheet photo 1</b>	AHID/c6ccae8f63e77bb0ba610841fec9ebd170beed32
<b>Datasheet photo 2</b>	AHID/d1b1424b2e90b0219caa86e88efea3e7c747f032
<b>Datasheet photo 3</b>	AHID/d8de1dc68f945e43c1a214c9a75c8ff0f9ed51af
<b>Datasheet photo 4</b>	AHID/bf1bd7fd08d8123e380631a45ec74d13dd1e624e
<b>Display</b>	40.9 cm (16.1") diagonal QHD display
<b>Display bezel</b>	micro-edge
<b>Display brightness</b>	300
<b>Display brightness uom</b>	nits
<b>Display panel technology</b>	IPS
<b>Display refresh rate</b>	165
<b>Display refresh rate uom</b>	Hz
<b>Display resolution (pixels)</b>	2560 x 1440
<b>Display resolution standard</b>	QHD
<b>Display response time</b>	3
<b>Display response time uom</b>	ms
<b>Display size (diagonal) uom</b>	"
<b>Display size (diagonal, imperial)</b>	16.1
<b>Display size (diagonal, metric)</b>	40.9

<b>Display size (diagonal, metric) uom</b>	cm
<b>Display surface treatment</b>	anti-glare
<b>ECC memory</b>	non-ECC
<b>Graphic card footnote number</b>	[8]
<b>Graphics</b>	Discrete
<b>Graphics (discrete)</b>	NVIDIA® GeForce RTX™ 3070 Laptop GPU (8 GB GDDR6 dedicated)
<b>Graphics card brand</b>	NVIDIA®
<b>Graphics card family</b>	GeForce
<b>Graphics card memory size</b>	8
<b>Graphics card memory size uom</b>	GB
<b>Graphics card memory type</b>	GDDR6
<b>HP apps</b>	HP Audio Switch; HP Connection Optimizer; OMEN Gaming Hub
<b>Keyboard backlight</b>	RGB backlit
<b>Keyboard backlit zone</b>	4-zone
<b>Keyboard color</b>	mica silver
<b>Keyboard size</b>	Full-size
<b>Keyboard technology</b>	26-Key Rollover Anti-Ghosting Key technology
<b>Memory and storage</b>	32 GB memory; 1 TB SSD storage
<b>Memory layout (slots &amp; size)</b>	2 x 16 GB
<b>Memory module type</b>	DIMM
<b>Memory size</b>	32
<b>Memory size uom</b>	GB
<b>Memory speed</b>	3200
<b>Memory speed uom</b>	MHz
<b>Memory type</b>	DDR4
<b>Model Number</b>	RTX™ 3070 with Max-Q design
<b>Number of User-accessible Memory Slots</b>	2
<b>Number of memory slots</b>	2
<b>Package depth, imperial (most common size)</b>	21.73
<b>Package depth, metric (most common size)</b>	55.2
<b>Package height, imperial (most common size)</b>	13.58
<b>Package height, metric (most common size)</b>	34.5

<b>Package weight</b>	8.68 lb
<b>Package width, imperial (most common size)</b>	2.71
<b>Package width, metric (most common size)</b>	6.9
<b>Packaging unit of measure (imperial)</b>	in
<b>Packaging unit of measure (metric)</b>	cm
<b>Playbook TS icon OS</b>	<a href="http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c03905482.png">http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c03905482.png</a>
<b>Playbook TS icon battery life</b>	<a href="http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c03905264.png">http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c03905264.png</a>
<b>Playbook TS icon connectivity</b>	<a href="http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08201987.png">http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08201987.png</a>
<b>Playbook TS icon dimensions NB</b>	<a href="https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08250394.png">https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08250394.png</a>
<b>Playbook TS icon display NB</b>	<a href="http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08205649.png">http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08205649.png</a>
<b>Playbook TS icon graphics</b>	<a href="https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08169202.png">https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08169202.png</a>
<b>Playbook TS icon memory</b>	<a href="https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08267700.png">https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08267700.png</a>
<b>Playbook TS icon processor</b>	<a href="https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08201972.png">https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08201972.png</a>
<b>Playbook TS icon storage</b>	<a href="http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08192819.png">http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08192819.png</a>
<b>Playbook TS icon weight imperial</b>	<a href="http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c05790117.png">http://h10003.www1.hp.com/digmedialib/prodimg/lowres/c05790117.png</a>
<b>Playbook TS icon weight metric</b>	<a href="https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08267650.png">https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08267650.png</a>
<b>Processor Brand</b>	AMD
<b>Processor cache</b>	16 MB L3
<b>Processor core</b>	8
<b>Processor family</b>	Ryzen™ 9
<b>Processor maximum frequency</b>	4.6
<b>Processor maximum frequency uom</b>	GHz
<b>Processor model</b>	5900HX
<b>Processor threads</b>	16
<b>Product brand name</b>	HP
<b>Product language options</b>	#ABT
<b>Product long name specifications</b>	OMEN by HP Laptop 16-c0009nj, Windows 11 Home, 16.1", AMD Ryzen™ 9, 32GB RAM, 1TB SSD, NVIDIA® GeForce RTX™ 3070 with Max-Q design, QHD, Mica silver
<b>Product long name specifications V2</b>	OMEN by HP Laptop 16, Windows 11 Home, 16.1", AMD Ryzen™ 9, 32GB RAM, 1TB SSD, NVIDIA® GeForce RTX™ 3070 with Max-Q design, QHD, Mica silver
<b>Product short name specifications</b>	OMEN by HP Laptop 16-c0009nj, 16.1", AMD Ryzen™ 9, 32GB RAM, 1TB SSD



<b>Screen-to-body ratio (without speakers)</b>	80.69% <sup>[18]</sup>
<b>Storage capacity</b>	1
<b>Storage capacity uom 01</b>	TB
<b>Storage form factor 01</b>	M.2
<b>Storage interface 01</b>	PCIe®
<b>Storage interface protocol 01</b>	NVMe™
<b>Storage memory technology 01</b>	TLC
<b>Storage type</b>	SSD
<b>Storage type 01</b>	SSD
<b>Technology logo 1</b>	Publication logos/Artboard_3.jpg
<b>Technology logo 2</b>	Publication logos/AMD RYZEN LOGO.jpg
<b>Technology logo 3</b>	Publication logos/EPEAT_silver_3C11.jpg
<b>Technology logo 4</b>	Publication logos/energy_star_logo.jpg
<b>Technology logo 6</b>	Publication logos/mcafee_logo_with_tag_new.jpg
<b>Touchscreen</b>	No
<b>UNSPSC code</b>	43211503
<b>Wireless antenna</b>	2x2
<b>Wireless standard</b>	Wi-Fi 6E
<b>Wireless supplier</b>	Realtek
<b>Wireless transfer speeds</b>	Supporting Gigabit data rate

[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.

[11] Wi-Fi CERTIFIED 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 CERTIFIED 6™ (802.11ax) is backwards compatible with prior 802.11 specs.*

*[13] Wi-Fi CERTIFIED 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.*

*[22] Reverting to LastPass basic after 30 days.*

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

*[27] Based on U.S. EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. EPEAT® status varies by country. Visit [www.epeat.net](http://www.epeat.net) for more information.*

*[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>*

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