HP

OMEN by HP 16-wf1085nd Intel® Core™ i7 i7-14700HX Laptop 40.9 cm (16.1") Quad HD 32 GB DDR5-SDRAM 2 TB SSD NVIDIA GeForce RTX 4070 Wi-Fi 7 (802.11be) Windows 11 Home Black

Brand : HP   **Product family:** OMEN by HP   **Product code:** 9U5U8EA#ABH

Product name : 16-wf1085nd

OMEN by HP 16-wf1085nd. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-14700HX, Processor frequency: 2.1 GHz. Display diagonal: 40.9 cm (16.1"), HD type: Quad HD, Display resolution: 2560 x 1440 pixels. Internal memory: 32 GB, Internal memory type: DDR5-SDRAM. Total storage capacity: 2 TB, Storage media: SSD. On-board graphics card model: Intel® UHD Graphics. Operating system installed: Windows 11 Home. Product colour: Black
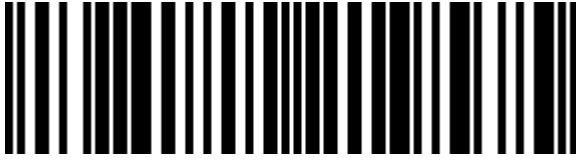
Design

Colour name	Shadow black aluminum
Product type *	Laptop
Product colour *	Black
Form factor *	Clamshell
Market positioning	Gaming
Introduction year	2024
Intel® vPro™ Platform Eligibility	✘
Original brand name	HP

Display

Display diagonal *	40.9 cm (16.1")
Display resolution *	2560 x 1440 pixels
Touchscreen *	✘
HD type	Quad HD
Panel type	IPS
LED backlight	✔
Native aspect ratio	16:9
Anti-glare screen	✔
Display bezel technology	Micro-Edge
Display brightness	300 cd/m²
Display diagonal (metric)	40.9 cm
RGB colour space	sRGB
Colour gamut	100%
Low Blue Light technology	✔
Display response rise/fall	3 ms
Maximum refresh rate	240 Hz

Processor

Processor manufacturer *	Intel
Processor family *	Intel® Core™ i7
Processor generation	Intel® Core™ i7 (14th gen)
Processor model *	i7-14700HX

Audio

Number of built-in speakers	2
Built-in microphone	✔
Number of microphones	2

Camera

Front camera	✔
Front camera HD type	Full HD
Privacy camera	✔
Privacy type	Privacy shutter

Network

Top Wi-Fi standard *	Wi-Fi 7 (802.11be)
Wi-Fi standards	Wi-Fi 7 (802.11be)
Mobile network connection *	✘
Antenna type	2x2
WLAN controller model	Intel Wi-Fi 7 BE200
WLAN controller manufacturer	Intel
Ethernet LAN	✔
Ethernet LAN data rates	10,100,1000 Mbit/s
Bluetooth	✔
Bluetooth version	5.4
Cabling technology	10/100/1000Base-T(X)

Ports & interfaces

USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Ethernet LAN (RJ-45) ports	1
HDMI ports quantity *	1
HDMI version	2.1
Thunderbolt 4 ports quantity	2
Intel® Thunderbolt 4	✔
Combo headphone/mic port	✔

Processor

Processor cores	20
Processor threads	28
Processor boost frequency	5.5 GHz
Processor frequency *	2.1 GHz
Performance cores	8
Efficient cores	12
Performance-core Max Turbo Frequency	5.5 GHz
Efficient-core Max Turbo Frequency	3.9 GHz
Performance-core base frequency	2.1 GHz
Efficient-core base frequency	1.5 GHz
Processor cache	33 MB
Processor cache type	L3
Processor base power	55 W
Maximum turbo power	157 W

Memory

Internal memory *	32 GB
Internal memory type	DDR5-SDRAM
Memory clock speed	5600 MHz
Memory form factor	SO-DIMM
Memory layout (slots x size)	2 x 16 GB
Memory slots	2x SO-DIMM
Memory slots (available)	2
Memory data transfer rate	5600 MT/s

Storage

Total storage capacity *	2 TB
Storage media *	SSD
Total SSDs capacity	2 TB
Number of SSDs installed	1
SSD capacity	2 TB
SSD memory type	TLC
SSD interface	PCI Express
NVMe	✔
SSD form factor	M.2
Optical drive type *	✘

Graphics

Discrete GPU manufacturer	NVIDIA
Discrete graphics card model *	NVIDIA GeForce RTX 4070
Discrete graphics card memory	8 GB
Discrete graphics memory type	GDDR6
On-board graphics card *	✔
On-board GPU manufacturer	Intel
Discrete graphics card *	✔
On-board graphics card family	Intel® UHD Graphics
On-board graphics card model *	Intel® UHD Graphics
NVIDIA G-SYNC	✔

Audio

Audio system	DTS:X Ultra
Built-in speaker(s)	✔

Ports & interfaces

USB Type-C DisplayPort Alternate Mode	✔
USB Sleep-and-Charge	✔
USB Sleep-and-Charge ports	3

Performance

Motherboard chipset	Intel HM770
Temperature sensor	✔

Keyboard

Pointing device	Touchpad
Numeric keypad *	✘
Keyboard backlit	✔
Keyboard backlit zone	4-zone RGB
Full-size keyboard	✔
Keyboard layout	QWERTY
Keyboard colour name	Shadow black

Software

Operating system installed *	Windows 11 Home

Brand-specific features

HP Audio Boost	✔
HP speaker type	HP Dual Speakers
HP Smart AC Adapter	✔
HP Imagepad	✔
HP front camera	HP TrueVision FHD
HP segment	Home

Battery

Battery technology	Lithium Polymer (LiPo)
Number of battery cells	6
Battery capacity *	83 Wh
Battery life (max)	5 h
Continuous video playback time	7 h
Fast charging	✔
Fast charging time (50%)	30 min

Power

AC adapter power	280 W
AC adapter frequency	50 - 60 Hz
AC adapter input voltage	100 - 240 V
USB Type-C charging port *	✔
USB Power Delivery (USB PD)	✔

Security

Trusted Platform Module (TPM)	✔
Password protection	✔
Password protection type	BIOS, Power on, User

Sustainability

Sustainability certificates	ENERGY STAR, EPEAT Gold

Weight & dimensions

Width	369 mm
Depth	259.4 mm
Height	23.5 mm
Weight *	2.39 kg

Packaging data

Package width	69 mm
Package depth	552 mm
Package height	345 mm
Package weight	4.28 kg

Packaging content	
Stylus pen	✗

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