



## Acer Predator Helios 16 PH16-72 Gaming Laptop - Intel Core i9-14900HX, 16GB, 1TB SSD, NVIDIA GeForce RTX 4080 12, 16"WQXGA 250Hz MiniLED, Windows 11, Black

Brand : Acer

Product family: Predator

Product code: NH.QNZEK.002

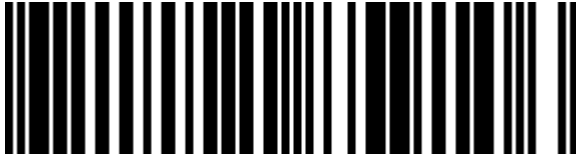
**Product name :** Acer Predator Helios 16 PH16-72 Gaming Laptop - Intel Core i9-14900HX, 16GB, 1TB SSD, NVIDIA GeForce RTX 4080 12, 16"WQXGA 250Hz MiniLED, Windows 11, Black



- Windows 11 Home 64-bit
  - Intel Core i9-14900HX (26MB Cache, 5.7GHz)
  - 40.6 cm (16") WQXGA 2560 x 1600 Mini LED, NVIDIA GeForce RTX 4080 (12GB GDDR6)
  - 16GB DDR5-SDRAM & 1000GB SSD
- Intel Core i9-14900HX (26MB Cache, 5.7GHz), 16GB DDR5-SDRAM, 1000GB SSD, 40.6 cm (16") WQXGA 2560 x 1600 Mini LED, Intel UHD Graphics, NVIDIA GeForce RTX 4080 (12GB GDDR6), LAN, WLAN, Webcam, Windows 11 Home 64-bit

Design		Audio	
Product type *	Laptop	Audio system	DTS:X Ultra
Product colour *	Black	Built-in microphone	✓
Form factor *	Clamshell	Number of microphones	3
Market positioning	Gaming	Camera	
Country of origin	China	Front camera	✓
Display		Front camera resolution (numeric)	2 MP
Display diagonal *	40.6 cm (16")	Front camera resolution	1920 x 1080 pixels
Display resolution *	2560 x 1600 pixels	Front camera HD type	Full HD
Touchscreen *	✗	Network	
HD type	WQXGA	Top Wi-Fi standard *	Wi-Fi 7 (802.11be)
Panel type	Mini LED		802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi 6 (802.11ax), Wi-Fi 6E (802.11ax), Wi-Fi 7 (802.11be)
LED backlight	✓	Wi-Fi standards	
Native aspect ratio	16:10	Mobile network connection *	✗
Maximum display brightness (HDR)	1000 cd/m <sup>2</sup>	Antenna type	2x2
Standard Dynamic Range (SDR) brightness	600 cd/m <sup>2</sup>	WLAN controller model	Killer Wi-Fi 7 BE1750
RGB colour space	DCI-P3	WLAN controller manufacturer	Killer
Colour gamut	100%	Ethernet LAN	✓
Maximum refresh rate	250 Hz	Ethernet LAN data rates	10,100,1000,2500 Mbit/s
Processor		Bluetooth	✓
Processor manufacturer *	Intel	Bluetooth version	5.3
Processor family *	Intel® Core™ i9	Bluetooth Low Energy (BLE)	✓
Processor generation	Intel® Core™ i9 (14th gen)	MIMO	✓
Processor model *	i9-14900HX	MIMO type	Multi User MIMO
Processor cores	24	Ports & interfaces	
Processor boost frequency	5.8 GHz	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	1
Processor frequency *	5.7 GHz	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	2
Performance cores	8	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	2
Efficient cores	16	Ethernet LAN (RJ-45) ports	1
Performance-core Max Turbo Frequency	5.8 GHz		
Efficient-core Max Turbo Frequency	4.1 GHz		

<b>Processor</b>		<b>Ports &amp; interfaces</b>	
Performance-core base frequency	2.2 GHz	HDMI ports quantity *	1
Efficient-core base frequency	1.6 GHz	HDMI version	2.1
Processor cache	26 MB	Thunderbolt 4 ports quantity	2
Processor cache type	Smart Cache	Intel® Thunderbolt 4	✓
Processor base power	55 W	Combo headphone/mic port	✓
Maximum turbo power	157 W	Charging port type	DC-in jack
<b>Memory</b>		USB Type-C DisplayPort Alternate Mode	✓
Internal memory *	16 GB	USB Power Delivery	✓
Internal memory type	DDR5-SDRAM	USB Sleep-and-Charge	✓
Maximum internal memory *	32 GB	USB Sleep-and-Charge ports	1
Memory data transfer rate	5600 MT/s	<b>Keyboard</b>	
<b>Storage</b>		Pointing device	Touchpad
Total storage capacity *	1.02 TB	Keyboard layout	QWERTY
Storage media *	SSD	Keyboard language	UK English
Total SSDs capacity	1.02 TB	Numeric keypad *	✓
Number of SSDs installed	1	Keyboard backlit	✓
SSD capacity	1.02 TB	Keyboard backlit colour	RGB
SSD interface	PCI Express 4.0	Keyboard backlit zone	Per-key RGB
NVMe	✓	Full-size keyboard	✓
SSD form factor	M.2	<b>Software</b>	
Optical drive type *	✗	Operating system architecture	64-bit
<b>Graphics</b>		Operating system installed *	Windows 11 Home
Discrete GPU manufacturer	NVIDIA	<b>Battery</b>	
Discrete graphics card model *	NVIDIA GeForce RTX 4080	Battery technology	Lithium-Ion (Li-Ion)
Discrete graphics card memory	12 GB	Number of battery cells	4
Discrete graphics memory type	GDDR6	Battery capacity *	90 Wh
On-board graphics card *	✓	Battery life (max)	6.5 h
On-board GPU manufacturer	Intel	Continuous video playback time	6.5 h
Discrete graphics card *	✓	Browsing time (Wi-Fi)	6 h
On-board graphics card family	Intel® UHD Graphics	<b>Power</b>	
On-board graphics card model *	Intel® UHD Graphics	AC adapter power	330 W
NVIDIA G-SYNC	✓	<b>Weight &amp; dimensions</b>	
CUDA	✓	Width	357.8 mm
CUDA cores	7424	Depth	277.6 mm
		Height	24.9 mm
		Weight *	2.7 kg
		<b>Packaging data</b>	
		Package width	82 mm
		Package depth	599 mm
		Package height	392 mm
		Package weight	5.66 kg



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Publication date: 24-SEP-2024. Prints or copies of Information are only valid on the printed Publication date