



Acer Predator Helios Neo 18 AI PHN18-72-90DM Intel Core Ultra 9 275HX Laptop 45.7 cm (18") WQXGA 32 GB DDR5-SDRAM 1 TB SSD NVIDIA GeForce RTX 5070 Wi-Fi 6E (802.11ax) Windows 11 Home Black

Brand : Acer **Product family:** Predator **Product code:** NH.QVEEG.00C

Product name :
PHN18-72-90DM

- Windows 11 Home 64-bit
- Intel Core Ultra 9 275HX (36MB Cache)
- 45.7 cm (18") WQXGA 2560 x 1600 IPS, NVIDIA GeForce RTX 5070 (8GB GDDR7)
- 32GB DDR5-SDRAM (2 x 16) & 1000GB SSD
Intel Core Ultra 9 275HX (36MB Cache), 32GB DDR5-SDRAM, 1000GB SSD, 45.7 cm (18") WQXGA 2560 x 1600 IPS, Intel Graphics, NVIDIA GeForce RTX 5070 (8GB GDDR7), LAN, WLAN, Webcam, Windows 11 Home 64-bit
Acer Predator Helios Neo 18 AI PHN18-72-90DM. Product type: Laptop, Form factor: Clamshell. Processor family: Intel Core Ultra 9, Processor model: 275HX. Display diagonal: 45.7 cm (18"), HD type: WQXGA, Display resolution: 2560 x 1600 pixels. Internal memory: 32 GB, Internal memory type: DDR5-SDRAM. Total storage capacity: 1 TB, Storage media: SSD. On-board graphics card model: Intel® Graphics, Discrete graphics card model: NVIDIA GeForce RTX 5070. Operating system installed: Windows 11 Home. Product colour: Black



Design		Storage	
Colour name	Abyssal Black	Compatible memory cards	MicroSD (TransFlash)
Product type *	Laptop	Graphics	
Product colour *	Black	Discrete GPU manufacturer	NVIDIA
Form factor *	Clamshell	Discrete graphics card model *	NVIDIA GeForce RTX 5070
Market positioning	Gaming	Discrete graphics card memory	8 GB
Original brand name	Acer	Discrete graphics memory type	GDDR7
Display		On-board graphics card *	✓
Display diagonal *	45.7 cm (18")	On-board GPU manufacturer	Intel
Display resolution *	2560 x 1600 pixels	Discrete graphics card *	✓
Touchscreen *	✗	On-board graphics card family	Intel® Graphics
HD type	WQXGA	On-board graphics card model *	Intel® Graphics
Panel type	IPS	Audio	
Display technology marketing name	ComfyView	Number of built-in speakers	2
Native aspect ratio	16:10	Built-in microphone	✓
Display surface	Matt	Camera	
Display diagonal (metric)	45.7 cm	Front camera	✓
Processor		Front camera resolution	1920 x 1080 pixels
Processor manufacturer *	Intel	Front camera HD type	Full HD
Processor family *	Intel Core Ultra 9	Network	
Processor generation	Intel Core Ultra (Series 2)	Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
Processor model *	275HX	Wi-Fi standards	Wi-Fi 6E (802.11ax)
Processor cores	24	Mobile network connection *	✗
Processor threads	24	Antenna type	2x2
Processor boost frequency	5.4 GHz	Ethernet LAN	✓
Performance cores	8	Ethernet LAN data rates	2500 Mbit/s
Efficient cores	16	Bluetooth	✓
Performance-core Max Turbo Frequency	5.4 GHz	Bluetooth version	5.3
Efficient-core Max Turbo Frequency	4.6 GHz	Ports & interfaces	
Performance-core base frequency	2.7 GHz	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	1
Efficient-core base frequency	2.1 GHz		
Processor cache	36 MB		
Processor base power	55 W		

Processor		Ports & interfaces	
Maximum turbo power	160 W	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	2
Neural processor unit (NPU)		USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	2
Neural processor unit (NPU)	Intel AI Boost	Ethernet LAN (RJ-45) ports	1
Sparsity support	✓	HDMI ports quantity *	1
Windows Studio effects support	✓	HDMI version	2.1
AI software frameworks supported by NPU	DirectML, OpenVINO, Windows ML, ONNX RT, WebNN	Combo headphone/mic port	✓
Total processor performance up to	36 TOPs	Keyboard	
NPU performance up to	13 TOPs	Pointing device	Touchpad
GPU performance up to	8 TOPs	Numeric keypad *	✓
Memory		Keyboard backlit	✓
Internal memory *	32 GB	Keyboard backlit colour	RGB
Internal memory type	DDR5-SDRAM	Keyboard backlit zone	4-zone RGB
Memory form factor	SO-DIMM	Software	
Memory layout (slots x size)	2 x 16 GB	Operating system architecture	64-bit
Maximum internal memory *	64 GB	Operating system installed *	Windows 11 Home
Storage		Battery	
Total storage capacity *	1 TB	Battery technology	Lithium-Ion (Li-Ion)
Storage media *	SSD	Number of battery cells	4
Total SSDs capacity	1 TB	Battery capacity *	90 Wh
Number of SSDs installed	1	Battery life (max)	5 h
SSD capacity	1 TB	Power	
SSD interface	PCI Express 4.0	AC adapter power	230 W
NVMe	✓	USB Type-C charging port *	✓
SSD form factor	M.2	Weight & dimensions	
Optical drive type *	✗	Width	405 mm
Card reader integrated	✓	Depth	307.9 mm
		Height	28 mm
		Weight *	3.3 kg
		Packaging content	
		AC adapter included *	✓



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