



**Acer Predator Helios Neo 16S AI PHN16S-71-99N6 Intel Core Ultra 9 275HX Laptop 40.6 cm (16") WQXGA 32 GB DDR5-SDRAM 1 TB SSD NVIDIA GeForce RTX 5070 Ti Wi-Fi 6E (802.11ax) Windows 11 Home Black**

**Brand :** Acer

**Product family:** Predator

**Product code:** NH.QX7EK.001

**Product name :**  
PHN16S-71-99N6

- Windows 11 Home 64-bit  
- Intel Core Ultra 9 275HX (36MB Cache)  
- 40.6 cm (16") WQXGA 2560 x 1600 OLED, NVIDIA GeForce RTX 5070 Ti (12GB GDDR7)  
- 32GB DDR5-SDRAM & 1000GB SSD  
Intel Core Ultra 9 275HX (36MB Cache), 32GB DDR5-SDRAM, 1000GB SSD, 40.6 cm (16") WQXGA 2560 x 1600 OLED, Intel Graphics, NVIDIA GeForce RTX 5070 Ti (12GB GDDR7), LAN, WLAN, Webcam, Windows 11 Home 64-bit  
Acer Predator Helios Neo 16S AI PHN16S-71-99N6. Product type: Laptop, Form factor: Clamshell.  
Processor family: Intel Core Ultra 9, Processor model: 275HX. Display diagonal: 40.6 cm (16"), 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 Ti. Operating system installed: Windows 11 Home. Product colour: Black



Design		Graphics	
Product type *	Laptop	Discrete GPU manufacturer	NVIDIA
Product colour *	Black	Discrete graphics card model *	NVIDIA GeForce RTX 5070 Ti
Form factor *	Clamshell	Discrete graphics card memory	12 GB
Market positioning	Gaming	Discrete graphics memory type	GDDR7
Display		On-board graphics card *	✓
Display diagonal *	40.6 cm (16")	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	OLED	Audio	
Display technology marketing name	CineCrystal	Number of built-in speakers	2
Native aspect ratio	16:10	Camera	
Maximum refresh rate	240 Hz	Front camera	✓
Processor		Network	
Processor manufacturer *	Intel	Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
Processor family *	Intel Core Ultra 9	Wi-Fi standards	Wi-Fi 6E (802.11ax)
Processor generation	Intel Core Ultra (Series 2)	Mobile network connection *	✗
Processor model *	275HX	Antenna type	2x2
Processor cores	24	WLAN controller model	Killer Wi-Fi 6E 1675i
Processor threads	24	WLAN controller manufacturer	Killer
Processor boost frequency	5.4 GHz	Ethernet LAN	✓
Performance cores	8	Ethernet LAN data rates	5000 Mbit/s
Efficient cores	16	Bluetooth	✓
Performance-core Max Turbo Frequency	5.4 GHz	Bluetooth version	5.4
Efficient-core Max Turbo Frequency	4.6 GHz	Ports & interfaces	
Performance-core base frequency	2.7 GHz		
Efficient-core base frequency	2.1 GHz		

Processor		Ports & interfaces	
Processor cache	36 MB	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	1
Processor base power	55 W	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	2
Maximum turbo power	160 W	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	2
Neural processor unit (NPU)		Ethernet LAN (RJ-45) ports	1
Neural processor unit (NPU)	Intel AI Boost	HDMI ports quantity *	1
Sparsity support	✓	Intel® Thunderbolt 4	✓
Windows Studio effects support	✓	Combo headphone/mic port	✓
AI software frameworks supported by NPU	DirectML, OpenVINO, Windows ML, ONNX RT, WebNN	USB Type-C DisplayPort Alternate Mode	✓
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	Copilot key	✓
Memory slots	2x SO-DIMM	Software	
Maximum internal memory *	64 GB	Operating system architecture	64-bit
Storage		Operating system installed *	Windows 11 Home
Total storage capacity *	1 TB	Battery	
Storage media *	SSD	Battery technology	Lithium-Ion (Li-Ion)
Total SSDs capacity	1 TB	Battery capacity *	76 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	356.8 mm
Card reader integrated	✓	Depth	275.5 mm
Compatible memory cards	MicroSD (TransFlash)	Height	26.8 mm
		Weight *	2.7 kg
		Packaging content	
		AC adapter included *	✓



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