



Acer Predator Helios Neo 16S AI PHN16S-I51-97NM Intel Core Ultra 9 386H Laptop 40.6 cm (16") WQXGA 32 GB DDR5-SDRAM 1 TB SSD NVIDIA GeForce RTX 5060 Wi-Fi 6E (802.11ax) eShell Black

Brand : Acer

Product family: Predator

Product code: NH.U3VEC.006

Product name : PHN16S-I51-97NM



Acer Predator Helios Neo 16S AI PHN16S-I51-97NM. Product type: Laptop, Form factor: Clamshell. Processor family: Intel Core Ultra 9, Processor model: 386H. 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 5060. Operating system installed: eShell. Product colour: Black



Design		Graphics	
Product type *	Laptop	Discrete GPU manufacturer	NVIDIA
Product colour *	Black	Discrete graphics card model *	NVIDIA GeForce RTX 5060
Form factor *	Clamshell	Discrete graphics card memory	8 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	Ray tracing acceleration	✓
Native aspect ratio	16:10	Audio	
RGB colour space	DCI-P3	Number of built-in speakers	2
Colour gamut	100%	Built-in microphone	✓
Display response rise/fall	1 ms	Number of microphones	3
Maximum refresh rate	165 Hz	Camera	
Processor		Front camera	✓
Processor manufacturer *	Intel	Network	
Processor family *	Intel Core Ultra 9	Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
Processor generation	Intel® Core™ Ultra (Series 3)	Mobile network connection *	✗
Processor model *	386H	Antenna type	2x2
Processor cores	16	WLAN controller model	Killer Wi-Fi 6E 1675i
Processor threads	16	Ethernet LAN	✓
Processor boost frequency	4.9 GHz	Ethernet LAN data rates	5000 Mbit/s
Performance cores	4	Bluetooth	✓
Efficient cores	8	Bluetooth version	5.4
Low Power Efficient-cores	4	Ports & interfaces	
Performance-core Max Turbo Frequency	4.9 GHz	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	1
Efficient-core Max Turbo Frequency	3.7 GHz	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	2
Low Power Efficient-core Max Turbo Frequency	3.5 GHz	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	2
Performance-core base frequency	2.1 GHz		
Efficient-core base frequency	1.6 GHz		

Processor		Ports & interfaces	
Low Power Efficient-core Base Frequency	1600 MHz	Ethernet LAN (RJ-45) ports	1
Processor cache	18 MB	HDMI ports quantity *	1
Processor cache type	Smart Cache	HDMI version	2.1
Processor socket	FCBGA2540	Intel® Thunderbolt 4	✓
Processor base power	25 W	Combo headphone/mic port	✓
Maximum turbo power	80 W	USB Type-C DisplayPort Alternate Mode	✓
Neural processor unit (NPU)		Keyboard	
Neural processor unit (NPU)	Intel AI Boost	Pointing device	Touchpad
Sparsity support	✓	Numeric keypad *	✓
Windows Studio effects support	✓	Keyboard backlit	✓
AI software frameworks supported by NPU	OpenVINO, Windows ML, ONNX RT, WebNN	Keyboard backlit colour	RGB
NPU performance up to	50 TOPs	Keyboard backlit zone	4-zone RGB
GPU performance up to	40 TOPs	Software	
Memory		Operating system installed *	eShell
Internal memory *	32 GB	Battery	
Internal memory type	DDR5-SDRAM	Battery technology	Lithium-Ion (Li-Ion)
Maximum internal memory *	32 GB	Number of battery cells	4
Memory data transfer rate	6400 MT/s	Battery capacity *	92 Wh
Storage		Battery life (max)	15 h
Total storage capacity *	1 TB	Battery charge indicator	✓
Storage media *	SSD	Power	
Total SSDs capacity	1 TB	AC adapter power	100 W
Number of SSDs installed	1	DC-in jack	✓
SSD capacity	1 TB	USB Type-C charging port *	✓
SSD interface	PCI Express 5.0	USB Power Delivery (USB PD)	✓
NVMe	✓	USB charging voltage	5 V
SSD form factor	M.2	USB charging current	3 A
Optical drive type *	✗	Weight & dimensions	
Card reader integrated	✓	Width	356.8 mm
Compatible memory cards	MicroSD (TransFlash)	Depth	275.5 mm
		Height	18.9 mm
		Weight *	2.2 kg
		Packaging content	
		AC adapter included *	✓



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