



Acer Predator Helios Neo 18 AI PHN18-72-92BJ Intel Core Ultra 9 275HX Laptop 45.7 cm (18") WQXGA 32 GB DDR5-SDRAM 1 TB SSD NVIDIA GeForce RTX 5070 Ti Wi-Fi 6E (802.11ax) eShell Black

Brand : Acer

Product family: Predator

Product code: NH.QVMEC.004

Product name :
PHN18-72-92BJ

Acer Predator Helios Neo 18 AI PHN18-72-92BJ. 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 Ti. Operating system installed: eShell. Product colour: Black



Design		Storage	
Product type *	Laptop	NVMe	✓
Product colour *	Black	SSD form factor	M.2
Form factor *	Clamshell	Optical drive type *	✗
Market positioning	Gaming	Card reader integrated	✓
Original brand name	Acer	Compatible memory cards	MicroSD (TransFlash)
Display		Graphics	
Display diagonal *	45.7 cm (18")	Discrete GPU manufacturer	NVIDIA
Display resolution *	2560 x 1600 pixels	Discrete graphics card model *	NVIDIA GeForce RTX 5070 Ti
Touchscreen *	✗	Discrete graphics card memory	12 GB
HD type	WQXGA	Discrete graphics memory type	GDDR7
Panel type	IPS	On-board graphics card *	✓
Display technology marketing name	ComfyView	On-board GPU manufacturer	Intel
Native aspect ratio	16:10	Discrete graphics card *	✓
Display surface	Matt	On-board graphics card family	Intel® Graphics
Anti-glare screen	✓	On-board graphics card model *	Intel® Graphics
Display brightness	1000 cd/m²	Audio	
Pixel density	167.7 ppi	Number of built-in speakers	2
Display diagonal (metric)	45.7 cm	Built-in microphone	✓
RGB colour space	DCI-P3	Camera	
Colour gamut	100%	Front camera	✓
Maximum refresh rate	250 Hz	Front camera resolution	1920 x 1080 pixels
Contrast ratio (typical)	1000:1	Front camera HD type	Full HD
Processor		Network	
Processor manufacturer *	Intel	Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
Processor family *	Intel Core Ultra 9	Mobile network connection *	✗
Processor generation	Intel Core Ultra (Series 2)	Antenna type	2x2
Processor model *	275HX	WLAN controller model	Killer Wi-Fi 6E AX1675
Processor cores	24	WLAN controller manufacturer	Killer
Processor threads	24	Ethernet LAN	✓
Processor boost frequency	5.4 GHz	Ethernet LAN data rates	2500 Mbit/s
Performance cores	8	Bluetooth	✓
Efficient cores	16		
Performance-core Max Turbo Frequency	5.4 GHz		

Processor		Network	
Efficient-core Max Turbo Frequency	4.6 GHz	Bluetooth version	5.4
Performance-core base frequency	2.7 GHz	Ports & interfaces	
Efficient-core base frequency	2.1 GHz	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	1
Processor cache	36 MB	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	2
Processor cache type	Smart Cache	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	2
Processor socket	BGA 2114	Ethernet LAN (RJ-45) ports	1
Processor base power	55 W	HDMI ports quantity *	1
Maximum turbo power	160 W	Combo headphone/mic port	✓
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	DirectML, OpenVINO, Windows ML, ONNX RT, WebNN	Keyboard backlit colour	RGB
Total processor performance up to	36 TOPs	Keyboard backlit zone	4-zone RGB
NPU performance up to	13 TOPs	Software	
GPU performance up to	8 TOPs	Operating system installed *	eShell
Memory		Battery	
Internal memory *	32 GB	Battery technology	Lithium-Ion (Li-Ion)
Internal memory type	DDR5-SDRAM	Battery capacity *	90 Wh
Memory clock speed	6400 MHz	Battery life (max)	7 h
Memory form factor	SO-DIMM	Power	
Memory layout (slots x size)	2 x 32 GB	USB Type-C charging port *	✓
Maximum internal memory *	64 GB	USB Type-C required charging power (min) *	90 W
Storage		USB Type-C required charging power (max) *	100 W
Total storage capacity *	1 TB	USB Power Delivery (USB PD)	✓
Storage media *	SSD	Weight & dimensions	
Total SSDs capacity	1 TB	Width	401 mm
Number of SSDs installed	1	Depth	307.9 mm
SSD capacity	1 TB	Height	28 mm
SSD interface	PCI Express 4.0	Weight *	3.3 kg
		Packaging content	
		AC adapter included *	✓



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