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Acer Predator Helios Neo 18 AI PHN18-72-92Y3 Intel Core Ultra 9 275HX Laptop 45.7 cm (18") WQXGA 16 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.U0HAA.002

Product name :
PHN18-72-92Y3

18" 2560 x 1600 WQXGA, Intel Core Ultra 9 275HX, 16 GB DDR5-SDRAM, 1 TB SSD, NVIDIA GeForce RTX 5070 Ti, Intel Graphics, WLAN 802.11, WebCam, Windows 11 Home
Acer Predator Helios Neo 18 AI PHN18-72-92Y3. 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: 16 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

Product type *	Laptop
Product colour *	Black
Form factor *	Clamshell
Market positioning	Gaming
Original brand name	Acer

Display

Display diagonal *	45.7 cm (18")
Display resolution *	2560 x 1600 pixels
Touchscreen *	✘
HD type	WQXGA
Panel type	IPS
Display technology marketing name	ComfyView
Native aspect ratio	16:10
Display surface	Matt
Display diagonal (metric)	45.7 cm
Maximum refresh rate	240 Hz

Processor

Processor manufacturer *	Intel
Processor family *	Intel Core Ultra 9
Processor generation	Intel Core Ultra (Series 2)
Processor model *	275HX
Processor cores	24
Processor threads	24
Processor boost frequency	5.4 GHz
Performance cores	8
Efficient cores	16
Performance-core Max Turbo Frequency	5.4 GHz
Efficient-core Max Turbo Frequency	4.6 GHz
Performance-core base frequency	2.7 GHz
Efficient-core base frequency	2.1 GHz
Processor cache	36 MB
L2 cache	40 MB
Processor base power	55 W

Graphics

Discrete graphics card memory	12 GB
Discrete graphics memory type	GDDR7
On-board graphics card *	✔
On-board GPU manufacturer	Intel
Discrete graphics card *	✔
On-board graphics card family	Intel Graphics
On-board graphics card model *	Intel Graphics
On-board graphics card cores	4
On-board graphics card 4K support	✔
On-board graphics card 8K support	✔
Graphics card Open GL support	✔
NVIDIA G-SYNC	✔

Audio

Number of built-in speakers	2
Built-in microphone	✔

Camera

Front camera	✔

Network

Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
Mobile network connection *	✘
WLAN controller model	Killer Wi-Fi 6E 1675i
WLAN controller manufacturer	Killer
Ethernet LAN	✔
Ethernet LAN data rates	2500 Mbit/s
Bluetooth	✔
Bluetooth version	5.4

Ports & interfaces

USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	1
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	2

Processor

Maximum turbo power	160 W

Neural processor unit (NPU)

Neural processor unit (NPU)	Intel AI Boost
Sparsity support	✔
Windows Studio effects support	✔
AI software frameworks supported by NPU	DirectML, ONNX RT, OpenVINO, WebNN, Windows ML
NPU performance up to	13 TOPs

Memory

Internal memory *	16 GB
Internal memory type	DDR5-SDRAM
Memory form factor	SO-DIMM

Storage

Total storage capacity *	1 TB
Storage media *	SSD
Total SSDs capacity	1 TB
Number of SSDs installed	1
SSD capacity	1 TB
SSD interface	PCI Express 4.0
NVMe	✔
SSD form factor	M.2
Optical drive type *	✘
Card reader integrated	✔
Compatible memory cards	MicroSD (TransFlash)

Graphics

Discrete GPU manufacturer	NVIDIA
Discrete graphics card model *	NVIDIA GeForce RTX 5070 Ti

Ports & interfaces

USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	2
Ethernet LAN (RJ-45) ports	1
HDMI ports quantity *	1
Headphone outputs	1

Keyboard

Pointing device	Touchpad
Numeric keypad *	✔
Keyboard backlit	✔
Keyboard backlit colour	RGB
Keyboard backlit zone	4-zone RGB
Copilot key	✔

Software

Operating system installed *	Windows 11 Home

Battery

Battery technology	Lithium-Ion (Li-Ion)
Battery capacity *	90 Wh
Battery life (max)	5 h

Power

AC adapter power	330 W
USB Type-C charging port *	✔

Security

Cable lock slot	✔
Cable lock slot type	Kensington
Trusted Platform Module (TPM)	✔

Weight & dimensions

Weight *	3.3 kg

Packaging content

AC adapter included *	✔
Cables included	AC

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