Acer Predator Helios Neo 14

(PHN14-51-99PS)



- Processor: Intel® Core™ Ultra 9 processor 185H
- Display: 14.5" Acer ComfyView™ WQXGA+ 165Hz IPS (non-glare)
- Memory: 32 GB LPDDR5X RAM
- Mass storage: 1.000 GB M.2 PCIe Gen4 SSD
- Graphics card: NVIDIA® GeForce RTX™ 4070
- Operating system: Windows 11 Home (64 Bit)

165Hz Windows 11 NVIDIA GEFORCE RTX IPS In-Plane Switching microSD Card Reader

Acer PHN14-51-99PS SPECIFICATIONS





Ordering Information

Series	Acer Predator Helios Neo 14
Model name	PHN14-51-99PS
Part number	NH.QRNEZ.001
EAN	4711474097491
Short description	14.5" Acer ComfyView™ WQXGA+ 165Hz IPS (non-glare) / Intel® Core™ Ultra 9 processor 185H / 32 GB LPDDR5X RAM / 1.000 GB M.2 PCIe Gen4 SSD / NVIDIA® GeForce RTX™ 4070 / Windows 11 Home (64 Bit) / Abyssal Black

Operating System

Operating System	Windows 11 Home (64 Bit)

Housing

Housing / Color	Abyssal Black
Component door	-
Dimensions	324.12 x 255.35 x 20.90 mm (W x D x H)
Weight	1.9 kg
Passively cooled (fanless)	-

Display

Display size	14.5 inch (36.83 cm)
Display type	Acer ComfyView™ WQXGA+ 165Hz IPS Display with LED backlit and 100% sRGB (non-glare)
Display resolution in pixel	3072 x 1920
Aspect ratio	16:10

Processor

Processor	Intel® Core™ Ultra 9 processor 185H
Clock frequency	Up to 5.1 GHz max. performance clock rate
Cache	24 MB Intel® Smart Cache
Processing cores / threads	6 Performance-cores + 8 Efficient-cores + 2 Low-power Efficient-cores / 22 Threads
NPU	Intel® AI Boost (up to 11 TOPS)

Storage and drives

Memory	32 GB LPDDR5X RAM
Memory configuration	1 x 32 GB LPDDR5X RAM
Maximum RAM	Onboard RAM (not replaceable or expandable)
Mass storage	1.000 GB M.2 PCIe Gen4 Solid-State-Drive (SSD)

Graphics card

Graphics card	NVIDIA® GeForce RTX™ 4070
Graphics card memory dedicated	8 GB GDDR6 VRAM

Connections

LAN	-
Wireless LAN	Intel® Wi-Fi 6E (802.11 ax)
Wireless WAN / SIM-Card	-
Wireless Gigabit	-
Bluetooth	Bluetooth® 5.3
NFC	-

IO ports

HDMI	1x HDMI® 2.1
Displayport	via USB Type-C
Thunderbolt	1x Thunderbolt™ 4 (via USB Type-C)
USB 3.2	4x (2x Type-C Gen 2, 2x Type-A Gen 2 (1x Power Off USB Charging)
USB 3.1	-
USB 3.0	-
USB 2.0	-
USB 4.0	-
Ethernet (RJ-45)	-
Cardreader	MicroSD Card reader
Smart card reader	-
Audio port	1x 3.5 mm speaker/headphone/line-out (supports headsets with integrated microphone)
Docking port	-

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Input

Keyboard	Acer FineTip RGB keyboard (86-/87-/90-keys)
Keyboard layout	Swiss
Backlit keyboard	Yes (3 Zone RGB)
Touchpad	Multi-Gesture TouchPad (Microsoft Precision Touchpad certification)

Security

Fingerprint sensor	-
Kensington Lock	Yes
Security software	Trusted Platform Module (TPM) solution

Audio and video

Audio	DTS® X: Ultra Audio, Acer TrueHarmony, Acer Purified, AI noise reduction | compatible with Cortana with Voice
Speaker	two built-in stereo speakers
Microphone	dual built-in microphones
Webcam	FHD Webcam

Battery and power adapter

Battery	Li-Ion battery (4 cells / 76 Wh)
Battery lifetime	Up to 6.5 hours (based on video playback test results)
Power adapter	230W AC power adapter
Battery built in	-

Software

Office	1 month trial for new Microsoft 365 customers. Credit card required
Other software	PredatorSense, Planet9, Acer Product Registration, Acer QuickPanel

Special features

Special features	FHD Webcam, 5th Gen Aeroblade 3D Fan, Vortex Flow, Liquid Metal, Vector heat pipe, Predator Premium Service

Warranty

Warranty	2-year mail-in/return service

Logistics

Quantity per layer	24
Quantity per europallet	72
Quantity per tower	144
Quantity per container	1584
Carton dimensions / weight	480.0 x 310.0 x 73.0 mm (W x D x H) / 3.77 kg

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