Acer Predator Helios Neo 16S AI OLED

(PHN16S-71-98V0)

- Processor: Intel® Core™ Ultra 9 Processor 275HX
- Display: 16" Acer CineCrystal™ WQXGA OLED 240Hz
- Memory: 32 GB DDR5 RAM
- Mass storage: 1.000 GB M.2 PCIe Gen4 SSD
- Graphics card: NVIDIA® GeForce RTX™ 5070 Ti
- Operating system: Linux (eShell)

intel CORE ULTRA 9 | OLED Panel | 240Hz | DDR5 | GEFORCE RTX nvidia | FHD Webcam | microSD Card Reader

PREDATOR

Ordering Information

Series	Acer Predator Helios Neo 16S AI OLED
Model name	PHN16S-71-98V0
Part number	NH.QZCEC.001
EAN	4711474619709
Short description	16" Acer CineCrystal™ WQXGA OLED 240Hz / Intel® Core™ Ultra 9 Processor 275HX / 32 GB DDR5 RAM / 1.000 GB M.2 PCIe Gen4 SSD / NVIDIA® GeForce RTX™ 5070 Ti / Linux (eShell) / Abyssal Black

Operating System

Operating System	Linux (eShell)

Housing

Housing / Color	Abyssal Black
Component door	-
Dimensions	356.78 x 275.50 x 19.90 mm (W x D x H)
Weight	2.3 kg
Passively cooled (fanless)	-

Display

Display size	16 inches (40,64 cm)
Display type	Acer CineCrystal™ WQXGA OLED 240Hz display with 100% DCI-P3 / Adobe-RGB color space coverage
Display resolution in pixel	2560 x 1600
Aspect ratio	16:10

Processor

Processor	Intel® Core™ Ultra 9 Processor 275HX
Clock frequency	2.1 GHz base clock (Up to 5.4 GHz max. performance clock rate)
Cache	36 MB
Processing cores / threads	8 Performance-cores + 16 Efficient-cores / 24 Threads
NPU	Intel® AI Boost (up to 13 TOPS)

Storage and drives

Memory	32 GB DDR5 RAM
Memory configuration	2 x 16 GB DDR5 RAM (6400MHz)
Maximum RAM	Up to 64 GB DDR5 RAM (2x 32 GB soDIMM)
Mass storage	1.000 GB M.2 PCIe Gen4 Solid-State-Drive (SSD)

Graphics card

Graphics card	NVIDIA® GeForce RTX™ 5070 Ti
Graphics card memory dedicated	12GB GDDR7 VRAM
Maximum Graphic Power	115
Maximum Boost Frequency	1712

Connections

LAN	Killer™ Gigabit Ethernet E3100G
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	Thunderbolt™ 4 (via USB Type-C)
USB 3.2	4x (1x Type-A Gen 1, 2x Type-A Gen 2 (1x with Power-Off USB Charging), 1x Type-C Gen 2)
USB 3.1	-
USB 3.0	-
USB 2.0	-
USB 4.0	1x (Type-C)
Ethernet (RJ-45)	Yes
Cardreader	MicroSD cardreader
Smart card reader	-
Audio port	1x 3.5 mm speaker/headphone/line-out (supports headsets with integrated microphone)
Docking port	-

Acer PHN16S-71-98V0 — SPECIFICATIONS

Input

Keyboard	TBD
Keyboard layout	US International / Hebrew
Backlit keyboard	Yes (4 Zone RGB)
Touchpad	Multi-Gesture TouchPad (Microsoft Precision Touchpad certification)

Security

Fingerprint sensor	-
Kensington Lock	-
Security software	-

Audio and video

Audio	DTS® X: Ultra Audio, Acer Purified, Acer TrueHarmony, Intel® Bluetooth® LE Audio, compatible with Cortana with Voice
Speaker	two built-in stereo speakers
Microphone	three built-in microphones
Webcam	FHD Webcam

Battery and power adapter

Battery	Li-Ion battery (4 cells / 76 Wh)
Battery lifetime	Up to 5 hours (based on video playback test results)
Power adapter	230W adapter (50% PCR-plastic)
Battery built in	-

Software

Other software	PredatorSense™, Planet9

Special features

Special features	AI ready, OLED display, FHD webcam, A and D covers made of aluminum, 5th Gen Aeroblade 3D Fan, Liquid Metal, Vector heat pipe, Predator Premium Service

Warranty

Warranty	1 year

Logistics

Quantity per layer	20
Quantity per europallet	60
Quantity per tower	100
Quantity per container	1100
Carton dimensions / weight	543.0 x 341.0 x 80.0 mm (W x D x H) / 4.14 kg