

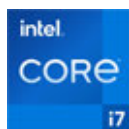


# Acer Predator Helios Neo 16

(PHN16-72-70UM)



- Processor: Intel® Core™ i7-14700HX
- Display: 16" Acer ComfyView™ WQXGA IPS 240 Hz (non-glare)
- Memory: 16 GB DDR5 RAM
- Mass storage: 1.000 GB M.2 PCIe Gen4 SSD
- Graphics card: NVIDIA® GeForce RTX™ 4070
- Operating system: Windows 11 Home (64 Bit)





## Acer PHN16-72-70UM

## SPECIFICATIONS



### Ordering Information

|                   |                                                                                                                                                                                                 |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Series            | Acer Predator Helios Neo 16                                                                                                                                                                     |
| Model name        | PHN16-72-70UM                                                                                                                                                                                   |
| Part number       | NH.QQUEG.001                                                                                                                                                                                    |
| EAN               | 4711121918889                                                                                                                                                                                   |
| Short description | 16" Acer ComfyView™ WQXGA IPS 240 Hz (non-glare) / Intel® Core™ i7-14700HX / 16 GB DDR5 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                 | 357.78 x 278.63 x 27.85 mm (W x D x H) |
| Weight                     | 2.8 kg                                 |
| Passively cooled (fanless) | -                                      |

### Display

|                             |                                                                         |
|-----------------------------|-------------------------------------------------------------------------|
| Display size                | 16 inches (40.64 cm)                                                    |
| Display type                | Acer ComfyView™ WQXGA IPS 240 Hz display with LED backlight (non-glare) |
| Display resolution in pixel | 2560 x 1600                                                             |
| Aspect ratio                | 16:10                                                                   |

### Processor

|                            |                                                                |
|----------------------------|----------------------------------------------------------------|
| Processor                  | Intel® Core™ i7-14700HX Processor                              |
| Clock frequency            | 2.1 GHz base clock (Up to 5.5 GHz max. performance clock rate) |
| Cache                      | 33 MB Intel® Smart Cache                                       |
| Processing cores / threads | 8 Performance-cores + 12 Efficient-cores / 28 Threads          |
| NPU                        | -                                                              |

### Storage and drives

|                      |                                                |
|----------------------|------------------------------------------------|
| Memory               | 16 GB DDR5 RAM                                 |
| Memory configuration | 2 x 8 GB DDR5 RAM                              |
| Maximum RAM          | Up to 32 GB DDR5 RAM (2x 16 GB soDIMM)         |
| 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           |
| Maximum Graphic Power          | 140                       |
| Maximum Boost Frequency        | 2080                      |

### 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           | 5x (2x USB Type-C Thunderbolt™ 4, 1x USB Type-A Gen 1, 2x USB Type-A Gen 2 (1x with Power-Off USB Charging)) |
| USB 3.1           | -                                                                                                            |
| USB 3.0           | -                                                                                                            |
| USB 2.0           | -                                                                                                            |
| USB 4.0           | -                                                                                                            |
| Ethernet (RJ-45)  | Yes                                                                                                          |
| Cardreader        | MicroSD Card reader                                                                                          |
| Smart card reader | -                                                                                                            |
| Audio port        | 1x 3.5 mm speaker/headphone/line-out (supports headsets with integrated microphone)                          |
| Docking port      | -                                                                                                            |



## Acer PHN16-72-70UM

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### Input

|                  |                                                                     |
|------------------|---------------------------------------------------------------------|
| Keyboard         | Acer FineTip RGB keyboard with numpad                               |
| Keyboard layout  | German (QWERTZ)                                                     |
| Backlit keyboard | Yes (4 Zone RGB)                                                    |
| Touchpad         | Multi-Gesture TouchPad (Microsoft Precision Touchpad certification) |

### Security

|                    |     |
|--------------------|-----|
| Fingerprint sensor | -   |
| Kensington Lock    | Yes |
| Security software  | -   |

### 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     | HD Webcam                                                                                                     |

### Battery and power adapter

|                  |                                                      |
|------------------|------------------------------------------------------|
| Battery          | Li-Ion battery (4 cells / 90 Wh)                     |
| Battery lifetime | Up to 6 hours (based on video playback test results) |
| Power adapter    | 330 watt power supply                                |
| Battery built in | -                                                    |

### Software

|                |                                                                     |
|----------------|---------------------------------------------------------------------|
| Office         | 1 month trial for new Microsoft 365 customers. Credit card required |
| Other software | PredatorSense™, Planet9                                             |

### Special features

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

### Warranty

|          |                               |
|----------|-------------------------------|
| Warranty | 2-year mail-in/return service |
|----------|-------------------------------|

### Logistics

|                            |                                               |
|----------------------------|-----------------------------------------------|
| Quantity per layer         | 20                                            |
| Quantity per europallet    | 60                                            |
| Quantity per tower         | 100                                           |
| Quantity per container     | 1100                                          |
| Carton dimensions / weight | 548.0 x 346.0 x 80.0 mm (W x D x H) / 4.73 kg |

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