



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 | | Graphics | |
|--------------------------------------|-----------------------------|---|-----------------------|
| Product type * | Laptop | Discrete graphics card memory | 12 GB |
| Product colour * | Black | Discrete graphics memory type | GDDR7 |
| Form factor * | Clamshell | On-board graphics card * | ✓ |
| Market positioning | Gaming | On-board GPU manufacturer | Intel |
| Original brand name | Acer | Discrete graphics card * | ✓ |
| Display | | On-board graphics card family | Intel Graphics |
| Display diagonal * | 45.7 cm (18") | On-board graphics card model * | Intel Graphics |
| Display resolution * | 2560 x 1600 pixels | On-board graphics card cores | 4 |
| Touchscreen * | ✗ | On-board graphics card 4K support | ✓ |
| HD type | WQXGA | On-board graphics card 8K support | ✓ |
| Panel type | IPS | Graphics card Open GL support | ✓ |
| Display technology marketing name | ComfyView | NVIDIA G-SYNC | ✓ |
| Native aspect ratio | 16:10 | Audio | |
| Display surface | Matt | Number of built-in speakers | 2 |
| Display diagonal (metric) | 45.7 cm | Built-in microphone | ✓ |
| Maximum refresh rate | 240 Hz | Camera | |
| Processor | | Front camera | ✓ |
| Processor manufacturer * | Intel | Network | |
| Processor family * | Intel Core Ultra 9 | Top Wi-Fi standard * | Wi-Fi 6E (802.11ax) |
| Processor generation | Intel Core Ultra (Series 2) | Mobile network connection * | ✗ |
| Processor model * | 275HX | WLAN controller model | Killer Wi-Fi 6E 1675i |
| 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 | Bluetooth version | 5.4 |
| Performance-core Max Turbo Frequency | 5.4 GHz | Ports & interfaces | |
| Efficient-core Max Turbo Frequency | 4.6 GHz | USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * | 1 |
| Performance-core base frequency | 2.7 GHz | USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity | 2 |
| Efficient-core base frequency | 2.1 GHz | | |
| Processor cache | 36 MB | | |
| L2 cache | 40 MB | | |
| Processor base power | 55 W | | |

| Processor | | Ports & interfaces | |
|---|--|---|----------------------|
| Maximum turbo power | 160 W | USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity | 2 |
| Neural processor unit (NPU) | | Ethernet LAN (RJ-45) ports | 1 |
| Neural processor unit (NPU) | Intel AI Boost | HDMI ports quantity * | 1 |
| Sparsity support | ✓ | Headphone outputs | 1 |
| Windows Studio effects support | ✓ | Keyboard | |
| AI software frameworks supported by NPU | DirectML, ONNX RT, OpenVINO, WebNN, Windows ML | Pointing device | Touchpad |
| NPU performance up to | 13 TOPs | Numeric keypad * | ✓ |
| Memory | | Keyboard backlit | ✓ |
| Internal memory * | 16 GB | Keyboard backlit colour | RGB |
| Internal memory type | DDR5-SDRAM | Keyboard backlit zone | 4-zone RGB |
| Memory form factor | SO-DIMM | Copilot key | ✓ |
| Storage | | Software | |
| Total storage capacity * | 1 TB | Operating system installed * | Windows 11 Home |
| Storage media * | SSD | Battery | |
| Total SSDs capacity | 1 TB | Battery technology | Lithium-Ion (Li-Ion) |
| Number of SSDs installed | 1 | Battery capacity * | 90 Wh |
| SSD capacity | 1 TB | Battery life (max) | 5 h |
| SSD interface | PCI Express 4.0 | Power | |
| NVMe | ✓ | AC adapter power | 330 W |
| SSD form factor | M.2 | USB Type-C charging port * | ✓ |
| Optical drive type * | ✗ | Security | |
| Card reader integrated | ✓ | Cable lock slot | ✓ |
| Compatible memory cards | MicroSD (TransFlash) | Cable lock slot type | Kensington |
| Graphics | | Trusted Platform Module (TPM) | ✓ |
| Discrete GPU manufacturer | NVIDIA | Weight & dimensions | |
| Discrete graphics card model * | NVIDIA GeForce RTX 5070 Ti | Weight * | 3.3 kg |
| | | Packaging content | |
| | | AC adapter included * | ✓ |
| | | Cables included | AC |



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