



**Acer Predator Helios Neo 16S AI PHN16S-I51-97NM Intel Core Ultra 9 386H Laptop 40.6 cm (16") WQXGA 32 GB DDR5-SDRAM 1 TB SSD NVIDIA GeForce RTX 5060 Wi-Fi 6E (802.11ax) eShell Black**

**Brand :** Acer

**Product family:** Predator

**Product code:** NH.U3VEC.006

**Product name :** PHN16S-I51-97NM



Acer Predator Helios Neo 16S AI PHN16S-I51-97NM. Product type: Laptop, Form factor: Clamshell. Processor family: Intel Core Ultra 9, Processor model: 386H. Display diagonal: 40.6 cm (16"), HD type: WQXGA, Display resolution: 2560 x 1600 pixels. Internal memory: 32 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 5060. Operating system installed: eShell. Product colour: Black

| Design                                       |                               | Graphics                                          |                         |
|----------------------------------------------|-------------------------------|---------------------------------------------------|-------------------------|
| Product type *                               | Laptop                        | Discrete GPU manufacturer                         | NVIDIA                  |
| Product colour *                             | Black                         | Discrete graphics card model *                    | NVIDIA GeForce RTX 5060 |
| Form factor *                                | Clamshell                     | Discrete graphics card memory                     | 8 GB                    |
| Market positioning                           | Gaming                        | Discrete graphics memory type                     | GDDR7                   |
| Display                                      |                               | On-board graphics card *                          | ✓                       |
| Display diagonal *                           | 40.6 cm (16")                 | On-board GPU manufacturer                         | Intel                   |
| Display resolution *                         | 2560 x 1600 pixels            | Discrete graphics card *                          | ✓                       |
| Touchscreen *                                | ✗                             | On-board graphics card family                     | Intel® Graphics         |
| HD type                                      | WQXGA                         | On-board graphics card model *                    | Intel® Graphics         |
| Panel type                                   | OLED                          | Ray tracing acceleration                          | ✓                       |
| Native aspect ratio                          | 16:10                         | Audio                                             |                         |
| RGB colour space                             | DCI-P3                        | Number of built-in speakers                       | 2                       |
| Colour gamut                                 | 100%                          | Built-in microphone                               | ✓                       |
| Display response rise/fall                   | 1 ms                          | Number of microphones                             | 3                       |
| Maximum refresh rate                         | 165 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 3) | Mobile network connection *                       | ✗                       |
| Processor model *                            | 386H                          | Antenna type                                      | 2x2                     |
| Processor cores                              | 16                            | WLAN controller model                             | Killer Wi-Fi 6E 1675i   |
| Processor threads                            | 16                            | Ethernet LAN                                      | ✓                       |
| Processor boost frequency                    | 4.9 GHz                       | Ethernet LAN data rates                           | 5000 Mbit/s             |
| Performance cores                            | 4                             | Bluetooth                                         | ✓                       |
| Efficient cores                              | 8                             | Bluetooth version                                 | 5.4                     |
| Low Power Efficient-cores                    | 4                             | Ports & interfaces                                |                         |
| Performance-core Max Turbo Frequency         | 4.9 GHz                       | USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * | 1                       |
| Efficient-core Max Turbo Frequency           | 3.7 GHz                       | USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity   | 2                       |
| Low Power Efficient-core Max Turbo Frequency | 3.5 GHz                       | USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity   | 2                       |
| Performance-core base frequency              | 2.1 GHz                       |                                                   |                         |
| Efficient-core base frequency                | 1.6 GHz                       |                                                   |                         |

| Processor                               |                                      | Ports & interfaces                    |                      |
|-----------------------------------------|--------------------------------------|---------------------------------------|----------------------|
| Low Power Efficient-core Base Frequency | 1600 MHz                             | Ethernet LAN (RJ-45) ports            | 1                    |
| Processor cache                         | 18 MB                                | HDMI ports quantity *                 | 1                    |
| Processor cache type                    | Smart Cache                          | HDMI version                          | 2.1                  |
| Processor socket                        | FCBGA2540                            | Intel® Thunderbolt 4                  | ✓                    |
| Processor base power                    | 25 W                                 | Combo headphone/mic port              | ✓                    |
| Maximum turbo power                     | 80 W                                 | USB Type-C DisplayPort Alternate Mode | ✓                    |
| Neural processor unit (NPU)             |                                      | Keyboard                              |                      |
| Neural processor unit (NPU)             | Intel AI Boost                       | Pointing device                       | Touchpad             |
| Sparsity support                        | ✓                                    | Numeric keypad *                      | ✓                    |
| Windows Studio effects support          | ✓                                    | Keyboard backlit                      | ✓                    |
| AI software frameworks supported by NPU | OpenVINO, Windows ML, ONNX RT, WebNN | Keyboard backlit colour               | RGB                  |
| NPU performance up to                   | 50 TOPs                              | Keyboard backlit zone                 | 4-zone RGB           |
| GPU performance up to                   | 40 TOPs                              | Software                              |                      |
| Memory                                  |                                      | Operating system installed *          | eShell               |
| Internal memory *                       | 32 GB                                | Battery                               |                      |
| Internal memory type                    | DDR5-SDRAM                           | Battery technology                    | Lithium-Ion (Li-Ion) |
| Maximum internal memory *               | 32 GB                                | Number of battery cells               | 4                    |
| Memory data transfer rate               | 6400 MT/s                            | Battery capacity *                    | 92 Wh                |
| Storage                                 |                                      | Battery life (max)                    | 15 h                 |
| Total storage capacity *                | 1 TB                                 | Battery charge indicator              | ✓                    |
| Storage media *                         | SSD                                  | Power                                 |                      |
| Total SSDs capacity                     | 1 TB                                 | AC adapter power                      | 100 W                |
| Number of SSDs installed                | 1                                    | DC-in jack                            | ✓                    |
| SSD capacity                            | 1 TB                                 | USB Type-C charging port *            | ✓                    |
| SSD interface                           | PCI Express 5.0                      | USB Power Delivery (USB PD)           | ✓                    |
| NVMe                                    | ✓                                    | USB charging voltage                  | 5 V                  |
| SSD form factor                         | M.2                                  | USB charging current                  | 3 A                  |
| Optical drive type *                    | ✗                                    | Weight & dimensions                   |                      |
| Card reader integrated                  | ✓                                    | Width                                 | 356.8 mm             |
| Compatible memory cards                 | MicroSD (TransFlash)                 | Depth                                 | 275.5 mm             |
|                                         |                                      | Height                                | 18.9 mm              |
|                                         |                                      | Weight *                              | 2.2 kg               |
|                                         |                                      | Packaging content                     |                      |
|                                         |                                      | AC adapter included *                 | ✓                    |



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### Catalog Object Cloud



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