Acer Predator PHN14-51-79UB Intel Core Ultra 7 155H Laptop 36.8 cm (14.5") WQXGA 16 GB LPDDR5x-SDRAM 1 TB SSD NVIDIA GeForce RTX 4070 Wi-Fi 6E (802.11ax) Windows 11 Home Black



Brand : Acer **Product family:** Predator **Product code:** NH.QRNAA.001

Product name :
PHN14-51-79UB



- Windows 11 Home 64-bit
- Intel Core Ultra 7 155H (24MB Cache)
- 36.8 cm (14.5") WQXGA 2560 x 1600 IPS, NVIDIA GeForce RTX 4070 (8GB GDDR6)
- 16GB LPDDR5x-SDRAM & 1000GB SSD

Intel Core Ultra 7 155H (24MB Cache), 16GB LPDDR5x-SDRAM, 1000GB SSD, 36.8 cm (14.5") WQXGA 2560 x 1600 IPS, Intel Arc Graphics, NVIDIA GeForce RTX 4070 (8GB GDDR6), WLAN, Webcam, Windows 11 Home 64-bit

Acer Predator PHN14-51-79UB. Product type: Laptop, Form factor: Clamshell. Processor family: Intel Core Ultra 7, Processor model: 155H. Display diagonal: 36.8 cm (14.5"), HD type: WQXGA, Display resolution: 2560 x 1600 pixels. Internal memory: 16 GB, Internal memory type: LPDDR5x-SDRAM. Total storage capacity: 1 TB, Storage media: SSD. On-board graphics card model: Intel Arc Graphics, Discrete graphics card model: NVIDIA GeForce RTX 4070. Operating system installed: Windows 11 Home. Product colour: Black

Design	
Product type *	Laptop
Product colour *	Black
Form factor *	Clamshell
Market positioning	Gaming

Display	
Display diagonal *	36.8 cm (14.5")
Display resolution *	2560 x 1600 pixels
Touchscreen *	✕
HD type	WQXGA
Panel type	IPS
Display technology marketing name	ComfyView
LED backlight	✔
Native aspect ratio	16:10
Display surface	Matt
RGB colour space	sRGB
Colour gamut	100%
Maximum refresh rate	120 Hz

Processor	
Processor manufacturer *	Intel
Processor family *	Intel Core Ultra 7
Processor generation	Intel® Core™ Ultra (Series 1)
Processor model *	155H
Processor cores	16
Processor threads	22
Processor boost frequency	4.8 GHz
Performance cores	6
Efficient cores	8
Low Power Efficient-cores	2
Performance-core Max Turbo Frequency	4.8 GHz
Efficient-core Max Turbo Frequency	3.8 GHz
Low Power Efficient-core Max Turbo Frequency	2.5 GHz

Storage	
SSD form factor	M.2
Optical drive type *	✕
Card reader integrated	✔
Compatible memory cards	MicroSD (TransFlash)

Graphics	
Discrete graphics card model *	NVIDIA GeForce RTX 4070
Discrete graphics card memory	8 GB
Discrete graphics memory type	GDDR6
On-board graphics card *	✔
On-board GPU manufacturer	Intel
Discrete graphics card *	✔
On-board graphics card family	Intel Arc Graphics
On-board graphics card model *	Intel Arc Graphics
NVIDIA G-SYNC	✔

Audio	
Number of built-in speakers	2
Built-in microphone	✔

Camera	
Front camera	✔

Network	
Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
Wi-Fi standards	Wi-Fi 6E (802.11ax)
Mobile network connection *	✕
Antenna type	2x2
WLAN controller model	Killer Wi-Fi 6E 1675i
WLAN controller manufacturer	Killer
Bluetooth	✔

Ports & interfaces	
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	2

Processor	
Performance-core base frequency	1.4 GHz
Efficient-core base frequency	0.9 GHz
Low Power Efficient-core Base Frequency	700 MHz
Processor cache	24 MB
Processor cache type	Smart Cache
Processor base power	28 W
Maximum turbo power	115 W

Neural processor unit (NPU)	
Neural processor unit (NPU)	Intel AI Boost
Maximum frequency NPU	1.4 GHz
Sparsity support	✔
Windows Studio effects support	✔
AI software frameworks supported by NPU	DirectML, ONNX RT, OpenVINO, Windows ML

Memory	
Internal memory *	16 GB
Internal memory type	LPDDR5x-SDRAM

Storage	
Total storage capacity *	1 TB
Storage media *	SSD
Total SSDs capacity	1 TB
Number of SSDs installed	1
SSD capacity	1 TB
SSD interface	PCI Express
NVMe	✔

Ports & interfaces	
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	2
HDMI ports quantity *	1
Headphone outputs	1
Combo headphone/mic port	✔

Keyboard	
Pointing device	Touchpad
Numeric keypad *	✘
Keyboard backlit	✔
Keyboard backlit colour	RGB
Keyboard backlit zone	3-zone RGB

Software	
Operating system architecture	64-bit
Operating system installed *	Windows 11 Home

Battery	
Battery technology	Lithium-Ion (Li-Ion)
Battery capacity *	76 Wh
Battery life (max)	11 h

Power	
AC adapter power	230 W
DC-in jack	✔

Security	
Cable lock slot	✔
Cable lock slot type	Kensington

Weight & dimensions	
Width	324.1 mm
Depth	255.4 mm
Height	20.9 mm
Weight *	1.9 kg

Packaging content	
AC adapter included *	✔



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