



Acer Predator PHN14-51-99NM Intel Core Ultra 9 185H Laptop 36.8 cm (14.5") 3K 32 GB LPDDR5x-SDRAM 1 TB SSD NVIDIA GeForce RTX 4070 Wi-Fi 6 (802.11ax) Windows 11 Home Black

Brand : Acer

Product family: Predator

Product code: NH.QRNAA.004

Product name :
PHN14-51-99NM



- Windows 11 Home 64-bit
- Intel Core Ultra 9 185H (24MB Cache)
- 36.8 cm (14.5") 3K 3072 x 1920 IPS, NVIDIA GeForce RTX 4070 (8GB GDDR6)
- 32GB LPDDR5x-SDRAM & 1000GB SSD

Intel Core Ultra 9 185H (24MB Cache), 32GB LPDDR5x-SDRAM, 1000GB SSD, 36.8 cm (14.5") 3K 3072 x 1920 IPS, Intel Arc Graphics, NVIDIA GeForce RTX 4070 (8GB GDDR6), WLAN, Webcam, Windows 11 Home 64-bit

Acer Predator PHN14-51-99NM. Product type: Laptop, Form factor: Clamshell. Processor family: Intel Core Ultra 9, Processor model: 185H. Display diagonal: 36.8 cm (14.5"), HD type: 3K, Display resolution: 3072 x 1920 pixels. Internal memory: 32 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		Graphics	
Product type *	Laptop	Discrete graphics card model *	NVIDIA GeForce RTX 4070
Product colour *	Black	Discrete graphics card memory	8 GB
Form factor *	Clamshell	Discrete graphics memory type	GDDR6
Market positioning	Gaming	On-board graphics card *	✓
Display		On-board GPU manufacturer	Intel
Display diagonal *	36.8 cm (14.5")	Discrete graphics card *	✓
Display resolution *	3072 x 1920 pixels	On-board graphics card family	Intel Arc Graphics
Touchscreen *	✗	On-board graphics card model *	Intel Arc Graphics
HD type	3K	Audio	
Panel type	IPS	Number of built-in speakers	2
Display technology marketing name	ComfyView	Built-in microphone	✓
LED backlight	✓	Camera	
Native aspect ratio	16:10	Front camera	✓
Display surface	Matt	Network	
Maximum refresh rate	165 Hz	Top Wi-Fi standard *	Wi-Fi 6 (802.11ax)
Processor		Wi-Fi standards	Wi-Fi 6 (802.11ax)
Processor manufacturer *	Intel	Mobile network connection *	✗
Processor family *	Intel Core Ultra 9	Antenna type	2x2
Processor generation	Intel® Core™ Ultra (Series 1)	WLAN controller model	Killer Wi-Fi 6E 1675i
Processor model *	185H	WLAN controller manufacturer	Killer
Processor threads	22	Bluetooth	✓
Processor boost frequency	5.1 GHz	Bluetooth version	5.3
Performance cores	6	Ports & interfaces	
Efficient cores	8	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	2
Low Power Efficient-cores	2	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	2
Performance-core Max Turbo Frequency	5.1 GHz	HDMI ports quantity *	1
Efficient-core Max Turbo Frequency	3.8 GHz	Headphone outputs	1
Low Power Efficient-core Max Turbo Frequency	2.5 GHz	Combo headphone/mic port	✓
Performance-core base frequency	2.3 GHz		
Efficient-core base frequency	1.8 GHz		

Processor		Keyboard	
Low Power Efficient-core Base Frequency	1000 MHz	Pointing device	Touchpad
Processor cache	24 MB	Numeric keypad *	✗
Processor cache type	Smart Cache	Keyboard backlit	✓
Processor base power	45 W	Keyboard backlit colour	RGB
Maximum turbo power	115 W	Keyboard backlit zone	3-zone RGB
Neural processor unit (NPU)		Software	
Neural processor unit (NPU)	Intel AI Boost	Operating system architecture	64-bit
Maximum frequency NPU	1.4 GHz	Operating system installed *	Windows 11 Home
Sparsity support	✓	Battery	
Windows Studio effects support	✓	Battery technology	Lithium-Ion (Li-Ion)
AI software frameworks supported by NPU	DirectML, ONNX RT, OpenVINO, Windows ML	Battery capacity *	76 Wh
Memory		Battery life (max)	11 h
Internal memory *	32 GB	Power	
Internal memory type	LPDDR5x-SDRAM	AC adapter power	230 W
Memory form factor	On-board	DC-in jack	✓
Maximum internal memory *	32 GB	USB Type-C charging port *	✓
Storage		USB Power Delivery (USB PD)	✓
Total storage capacity *	1 TB	Security	
Storage media *	SSD	Cable lock slot	✓
Total SSDs capacity	1 TB	Cable lock slot type	Kensington
Number of SSDs installed	1	Trusted Platform Module (TPM)	✓
SSD capacity	1 TB	Password protection	✓
SSD interface	PCI Express 4.0	Password protection type	BIOS, HDD, Supervisor, User
NVMe	✓	Weight & dimensions	
SSD form factor	M.2	Width	324.1 mm
Optical drive type *	✗	Depth	255.4 mm
Card reader integrated	✓	Height	20.9 mm
Compatible memory cards	MicroSD (TransFlash)	Weight *	1.9 kg
		Packaging content	
		AC adapter included *	✓
		Cables included	AC

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