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Acer Predator Triton Neo 16 PTN16-51-94VH Intel Core Ultra 9 185H Laptop 40.6 cm (16") 3.2K 32 GB LPDDR5x-SDRAM 1 TB SSD NVIDIA GeForce RTX 4070 Wi-Fi 6E (802.11ax) Windows 11 Home Silver

Brand : Acer   **Product family:** Predator   **Product code:** NH.QPPEK.001
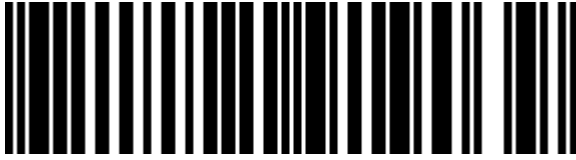
Product name :
PTN16-51-94VH

- Windows 11 Home 64-bit
- Intel Core Ultra 9 185H (24MB Cache)
- 40.6 cm (16") 3.2K 3200 x 2000 IPS, NVIDIA GeForce RTX 4070 (8GB GDDR6)
- 32GB LPDDR5x-SDRAM & 1000GB SSD
Intel Core Ultra 9 185H (24MB Cache), 32GB LPDDR5x-SDRAM, 1000GB SSD, 40.6 cm (16") 3.2K 3200 x 2000 IPS, Intel Arc Graphics, NVIDIA GeForce RTX 4070 (8GB GDDR6), WLAN, Webcam, Windows 11 Home 64-bit
Acer Predator Triton Neo 16 PTN16-51-94VH. Product type: Laptop, Form factor: Clamshell. Processor family: Intel Core Ultra 9, Processor model: 185H. Display diagonal: 40.6 cm (16"), HD type: 3.2K, Display resolution: 3200 x 2000 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: Silver

Design

Product type *	Laptop
Product colour *	Silver
Form factor *	Clamshell
Market positioning	Gaming

Display

Display diagonal *	40.6 cm (16")
Display resolution *	3200 x 2000 pixels
Touchscreen *	✘
HD type	3.2K
Panel type	IPS
Display technology marketing name	ComfyView
LED backlight	✔
Native aspect ratio	16:10
Display surface	Matt
Maximum refresh rate	165 Hz

Processor

Processor manufacturer *	Intel
Processor family *	Intel Core Ultra 9
Processor generation	Intel® Core™ Ultra (Series 1)
Processor model *	185H
Processor cores	16
Processor threads	22
Processor boost frequency	5.1 GHz
Performance cores	6
Efficient cores	8
Low Power Efficient-cores	2
Performance-core Max Turbo Frequency	5.1 GHz
Efficient-core Max Turbo Frequency	3.8 GHz
Low Power Efficient-core Max Turbo Frequency	2.5 GHz
Performance-core base frequency	2.3 GHz
Efficient-core base frequency	1.8 GHz

Storage

Compatible memory cards	MicroSD (TransFlash)

Graphics

Discrete GPU manufacturer	NVIDIA
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	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), 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 1 (3.1 Gen 1) Type-A ports quantity *	2
USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity *	1

Processor

Low Power Efficient-core Base Frequency	1000 MHz
Processor cache	24 MB
Processor cache type	Smart Cache
Processor base power	45 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 datatype support on NPU	FP16, FP32, Int8
AI software frameworks supported by NPU	DirectML, ONNX RT, OpenVINO, Windows ML

Memory

Internal memory *	32 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 4.0
NVMe	✓
SSD form factor	M.2
Optical drive type *	✗
Card reader integrated	✓

Ports & interfaces

USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
HDMI ports quantity *	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)	8.5 h

Power

AC adapter power	230 W

Security

Cable lock slot	✓
Cable lock slot type	Kensington
Fingerprint reader	✓
Trusted Platform Module (TPM)	✓

Weight & dimensions

Width	356 mm
Depth	249.2 mm
Height	20.8 mm
Weight *	2.05 kg

Packaging content

Cables included	AC

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