



**Acer Predator Helios 300 PH317-56-76XP Laptop 43.9 cm (17.3")
Quad HD Intel® Core™ i7 i7-12700H 16 GB DDR5-SDRAM 1 TB SSD
NVIDIA GeForce RTX 3070 Ti Wi-Fi 6 (802.11ax) Windows 11 Home
Black**



Brand : Acer **Product family:** Predator **Product code:** NH.QGFEK.001
Product name :
PH317-56-76XP

- Windows 11 Home 64-bit
- Intel Core i7-12700H (24MB Cache)
- 43.9 cm (17.3") Quad HD 2560 x 1440 IPS, NVIDIA GeForce RTX 3070 Ti (8GB GDDR6)
- 16GB DDR5-SDRAM (2 x 8) & 1000GB SSD
Intel Core i7-12700H (24MB Cache), 16GB DDR5-SDRAM, 1000GB SSD, 43.9 cm (17.3") Quad HD 2560 x 1440 IPS, Intel Iris Xe Graphics, NVIDIA GeForce RTX 3070 Ti (8GB GDDR6), LAN, WLAN, Webcam, Windows 11 Home 64-bit
Acer Predator Helios 300 PH317-56-76XP. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-12700H. Display diagonal: 43.9 cm (17.3"), HD type: Quad HD, Display resolution: 2560 x 1440 pixels. Internal memory: 16 GB, Internal memory type: DDR5-SDRAM. Total storage capacity: 1 TB, Storage media: SSD. On-board graphics card model: Intel Iris Xe Graphics, Discrete graphics card model: NVIDIA GeForce RTX 3070 Ti. Operating system installed: Windows 11 Home. Product colour: Black



Design		Network	
Colour name	Abyss Black	WLAN controller model	Killer Wi-Fi 6E 1675i
Product type *	Laptop	Ethernet LAN	✓
Product colour *	Black	Ethernet LAN data rates	10,1000,100 Mbit/s
Form factor *	Clamshell	Bluetooth	✓
Market positioning	Gaming	Bluetooth version	5.2
Display		Ports & interfaces	
Display diagonal *	43.9 cm (17.3")	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	1
Display resolution *	2560 x 1440 pixels	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	2
Touchscreen *	✗	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
HD type	Quad HD	Ethernet LAN (RJ-45) ports	1
Panel type	IPS	HDMI ports quantity *	1
LED backlight	✓	Mini DisplayPorts quantity	1
Native aspect ratio	16:9	Headphone outputs	1
Maximum refresh rate	165 Hz	Combo headphone/mic port	✓
Processor		Charging port type	DC-in jack
Processor manufacturer *	Intel	Keyboard	
Processor generation	12th gen Intel® Core™ i7	Pointing device	Touchpad
Processor family *	Intel® Core™ i7	Numeric keypad *	✓
Processor model *	i7-12700H	Keyboard backlight	✓
Processor boost frequency	4.7 GHz	Software	
Processor cores	14	Operating system architecture	64-bit
Processor cache	24 MB	Operating system installed *	Windows 11 Home
Configurable TDP-down	35 W	Processor special features	
Memory		Intel Flex Memory Access	✓
Internal memory *	16 GB	Intel Trusted Execution Technology	✓
Internal memory type	DDR5-SDRAM	Intel VT-x with Extended Page Tables (EPT)	✓
Memory form factor	SO-DIMM	Execute Disable Bit	✓
Memory layout (slots x size)	2 x 8 GB	CPU configuration (max)	1
Memory slots	2x SO-DIMM	Embedded options available	✗
Maximum internal memory *	32 GB	Storage	
Storage		Total storage capacity *	1 TB

Storage		Processor special features	
Storage media *	SSD	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Total SSDs capacity	1 TB	Intel Virtualization Technology (VT-x)	✓
Number of SSDs installed	1	Battery	
SSD capacity	1 TB	Battery technology	Lithium-Ion (Li-Ion)
SSD interface	PCI Express	Number of battery cells	4
Optical drive type *	✗	Battery capacity *	90 Wh
Graphics		Battery life (max)	6 h
Discrete graphics card model *	NVIDIA GeForce RTX 3070 Ti	Power	
On-board graphics card *	✓	AC adapter power	280 W
On-board GPU manufacturer	Intel	Security	
Discrete graphics card *	✓	Cable lock slot	✓
On-board graphics card model *	Intel Iris Xe Graphics	Cable lock slot type	Kensington
Discrete graphics card memory	8 GB	Trusted Platform Module (TPM)	✓
Discrete graphics memory type	GDDR6	Password protection	✓
Audio		Password protection type	BIOS, HDD, Supervisor, User
Number of built-in speakers	2	Weight & dimensions	
Built-in microphone	✓	Width	399.3 mm
Camera		Depth	295.5 mm
Front camera	✓	Height	26.9 mm
Front camera resolution	1920 x 1080 pixels	Weight *	3 kg
Front camera HD type	HD	Packaging content	
Network		Cables included	AC
Top Wi-Fi standard *	Wi-Fi 6 (802.11ax)		
Wi-Fi standards	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi 6 (802.11ax)		
Mobile network connection *	✗		
Antenna type	2x2		

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