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Acer Predator Helios 300 PH317-51-56NY Intel® Core™ i5 i5-7300HQ Laptop 43.9 cm (17.3") Full HD 16 GB DDR4-SDRAM 1.13 TB HDD+SSD NVIDIA® GeForce® GTX 1050 Ti Wi-Fi 5 (802.11ac) Windows 10 Home Black

Brand : Acer   **Product family:** Predator   **Product code:** NH.Q2MEK.003

Product name :
PH317-51-56NY

Intel Core i5-7300HQ (3M Cache, 2.5 GHz), 43.942 cm (17.3") (1920 x 1080) LED, 16GB DDR4, 1TB SATA HDD + 128 GB SSD, Intel HD Graphics 630 + NVIDIA GeForce GTX 1050 Ti, Gigabit Ethernet, WLAN 802.11a/b/g/n/ac, Bluetooth, Webcam, Windows 10 Home 64-bit
Acer Predator Helios 300 PH317-51-56NY. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i5, Processor model: i5-7300HQ, Processor frequency: 2.5 GHz. Display diagonal: 43.9 cm (17.3"), HD type: Full HD, Display resolution: 1920 x 1080 pixels. Internal memory: 16 GB, Internal memory type: DDR4-SDRAM. Total storage capacity: 1.13 TB, Storage media: HDD+SSD. On-board graphics card model: Intel® HD Graphics 630. Operating system installed: Windows 10 Home. Product colour: Black

Design

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

Display

Display diagonal *	43.9 cm (17.3")
Display resolution *	1920 x 1080 pixels
Touchscreen *	✗
HD type	Full HD
Panel type	IPS
LED backlight	✓
Native aspect ratio	16:9

Processor

Processor manufacturer *	Intel
Processor family *	Intel® Core™ i5
Processor generation	7th gen Intel® Core™ i5
Processor model *	i5-7300HQ
Processor cores	4
Processor threads	4
Processor boost frequency	3.5 GHz
Processor frequency *	2.5 GHz
System bus rate	8 GT/s
Processor cache	6 MB
Processor lithography	14 nm
Processor operating modes	64-bit
Processor series	Intel Core i5-700 Desktop Series
Processor codename	Kaby Lake
Bus type	DMI3
Thermal Design Power (TDP)	45 W
Configurable TDP-down	35 W
Tjunction	100 °C
Maximum number of PCI Express lanes	16
PCI Express slots version	3.0
PCI Express configurations	1x16, 1x8+2x4, 2x8
ECC supported by processor	✗

Ports & interfaces

Combo headphone/mic port	✓
Docking connector	✗
Charging port type	DC-in jack

Keyboard

Pointing device	Touchpad
Numeric keypad *	✓
Keyboard backlit	✓
Windows keys	✓

Software

Operating system architecture	64-bit
Operating system installed *	Windows 10 Home

Processor special features

Intel® Wireless Display (Intel® WiDi)	✓
Intel® My WiFi Technology (Intel® MWT)	✓
Intel® Smart Response Technology	✓
Intel® Identity Protection Technology (Intel® IPT)	✓
Intel® Hyper Threading Technology (Intel® HT Technology)	✗
Intel® Turbo Boost Technology	2.0
Enhanced Intel SpeedStep Technology	✓
Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Intel Clear Video Technology	✓
Intel® InTru™ 3D Technology	✓
Intel® Quick Sync Video Technology	✓
Intel Flex Memory Access	✓
Intel® AES New Instructions (Intel® AES-NI)	✓
Intel Trusted Execution Technology	✗
Intel Enhanced Halt State	✓
Intel VT-x with Extended Page Tables (EPT)	✓
Intel® Secure Key	✓
Intel TSX-NI	✗

Memory

Internal memory *	16 GB
Internal memory type	DDR4-SDRAM
Memory slots	2x SO-DIMM
Maximum internal memory *	32 GB

Storage

Total storage capacity *	1.13 TB
Storage media *	HDD+SSD
Number of HDDs installed	1
HDD capacity	1 TB
HDD interface	SATA
HDD speed	5400 RPM
Number of SSDs installed	1
SSD capacity	128 GB
SSD interface	SATA III
Optical drive type *	✘
Card reader integrated	✘

Graphics

Discrete graphics card model *	NVIDIA® GeForce® GTX 1050 Ti
Discrete graphics card memory	4 GB
Discrete graphics memory type	GDDR5
On-board graphics card *	✓
Discrete graphics card *	✓
On-board graphics card model *	Intel® HD Graphics 630
On-board graphics card base frequency	350 MHz
On-board graphics card dynamic frequency (max)	1000 MHz
Maximum on-board graphics card memory	64 GB
On-board graphics card DirectX version	12.0
On-board graphics card OpenGL version	4.4
On-board graphics card ID	0x591B

Audio

Number of built-in speakers	2
Built-in microphone	✓

Camera

Front camera	✓
Front camera resolution	1280 x 720 pixels

Network

Wi-Fi	✓
Top Wi-Fi standard *	Wi-Fi 5 (802.11ac)
Wi-Fi standards	Wi-Fi 5 (802.11ac)
Ethernet LAN	✓
Ethernet LAN data rates	10,100,1000 Mbit/s
Bluetooth	✓

Ports & interfaces

USB 2.0 ports quantity *	2
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	1
USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity *	1
Ethernet LAN (RJ-45) ports	1
HDMI ports quantity *	1
DVI port	✘

Processor special features

Intel Stable Image Platform Program (SIPP)	✘
Intel® OS Guard	✓
Intel Software Guard Extensions (Intel SGX)	✓
Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Intel 64	✓
Execute Disable Bit	✓
Idle States	✓
Thermal Monitoring Technologies	✓
Processor package size	42 x 28 mm
Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
CPU configuration (max)	1
Embedded options available	✘
Intel Virtualization Technology for Directed I/O (VT-d)	✓
Intel Identity Protection Technology version	1.00
Intel Smart Response Technology version	1.00
Intel Stable Image Platform Program (SIPP) version	0.00
Intel Secure Key Technology version	1.00
Intel Small Business Advantage (SBA) version	1.00
Intel TSX-NI version	0.00
Intel Virtualization Technology (VT-x)	✓
Processor ARK ID	97456
Conflict-Free processor	✓

Battery

Battery technology	Lithium-Ion (Li-Ion)
Number of battery cells	4
Battery capacity	3220 mAh
Battery life (max)	7 h

Power

AC adapter power	180 W
AC adapter frequency	50 - 60 Hz

Weight & dimensions

Width	432.2 mm
Depth	289.9 mm
Height	29 mm
Height (front)	2.9 cm
Height (rear)	2.9 cm
Weight *	3 kg

Packaging content

Manual	✓
Power cord included	✓

Other features

AC adapter included	✓