



**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		Ports & interfaces	
Product type *	Laptop	Combo headphone/mic port	✓
Product colour *	Black	Docking connector	✗
Form factor *	Clamshell	Charging port type	DC-in jack
Market positioning	Gaming	Keyboard	
Display		Pointing device	Touchpad
Display diagonal *	43.9 cm (17.3")	Numeric keypad *	✓
Display resolution *	1920 x 1080 pixels	Keyboard backlight	✓
Touchscreen *	✗	Windows keys	✓
HD type	Full HD	Software	
Panel type	IPS	Operating system architecture	64-bit
LED backlight	✓	Operating system installed *	Windows 10 Home
Native aspect ratio	16:9	Processor special features	
Processor		Intel® Wireless Display (Intel® WiDi)	✓
Processor manufacturer *	Intel	Intel® My WiFi Technology (Intel® MWT)	✓
Processor family *	Intel® Core™ i5	Intel® Smart Response Technology	✓
Processor generation	7th gen Intel® Core™ i5	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor model *	i5-7300HQ	Intel® Hyper Threading Technology (Intel® HT Technology)	✗
Processor cores	4	Intel® Turbo Boost Technology	2.0
Processor threads	4	Enhanced Intel SpeedStep Technology	✓
Processor boost frequency	3.5 GHz	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor frequency *	2.5 GHz	Intel Clear Video Technology	✓
System bus rate	8 GT/s	Intel® InTru™ 3D Technology	✓
Processor cache	6 MB	Intel® Quick Sync Video Technology	✓
Processor lithography	14 nm	Intel Flex Memory Access	✓
Processor operating modes	64-bit	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor series	Intel Core i5-700 Desktop Series	Intel Trusted Execution Technology	✗
Processor codename	Kaby Lake	Intel Enhanced Halt State	✓
Bus type	DMI3	Intel VT-x with Extended Page Tables (EPT)	✓
Thermal Design Power (TDP)	45 W	Intel® Secure Key	✓
Configurable TDP-down	35 W	Intel TSX-NI	✗
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	✗		

Memory		Processor special features	
Internal memory *	16 GB	Intel Stable Image Platform Program (SIPP)	✗
Internal memory type	DDR4-SDRAM	Intel® OS Guard	✓
Memory slots	2x SO-DIMM	Intel Software Guard Extensions (Intel SGX)	✓
Maximum internal memory *	32 GB	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Storage		Intel 64	✓
Total storage capacity *	1.13 TB	Execute Disable Bit	✓
Storage media *	HDD+SSD	Idle States	✓
Number of HDDs installed	1	Thermal Monitoring Technologies	✓
HDD capacity	1 TB	Processor package size	42 x 28 mm
HDD interface	SATA	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
HDD speed	5400 RPM	CPU configuration (max)	1
Number of SSDs installed	1	Embedded options available	✗
SSD capacity	128 GB	Intel Virtualization Technology for Directed I/O (VT-d)	✓
SSD interface	SATA III	Intel Identity Protection Technology version	1.00
Optical drive type *	✗	Intel Smart Response Technology version	1.00
Card reader integrated	✗	Intel Stable Image Platform Program (SIPP) version	0.00
Graphics		Intel Secure Key Technology version	1.00
Discrete graphics card model *	NVIDIA® GeForce® GTX 1050 Ti	Intel Small Business Advantage (SBA) version	1.00
Discrete graphics card memory	4 GB	Intel TSX-NI version	0.00
Discrete graphics memory type	GDDR5	Intel Virtualization Technology (VT-x)	✓
On-board graphics card *	✓	Processor ARK ID	97456
Discrete graphics card *	✓	Conflict-Free processor	✓
On-board graphics card model *	Intel® HD Graphics 630	Battery	
On-board graphics card base frequency	350 MHz	Battery technology	Lithium-Ion (Li-Ion)
On-board graphics card dynamic frequency (max)	1000 MHz	Number of battery cells	4
Maximum on-board graphics card memory	64 GB	Battery capacity	3220 mAh
On-board graphics card DirectX version	12.0	Battery life (max)	7 h
On-board graphics card OpenGL version	4.4	Power	
On-board graphics card ID	0x591B	AC adapter power	180 W
Audio		AC adapter frequency	50 - 60 Hz
Number of built-in speakers	2	Weight & dimensions	
Built-in microphone	✓	Width	432.2 mm
Camera		Depth	289.9 mm
Front camera	✓	Height	29 mm
Front camera resolution	1280 x 720 pixels	Height (front)	2.9 cm
Network		Height (rear)	2.9 cm
Wi-Fi	✓	Weight *	3 kg
Top Wi-Fi standard *	Wi-Fi 5 (802.11ac)	Packaging content	
Wi-Fi standards	Wi-Fi 5 (802.11ac)	Manual	✓
Ethernet LAN	✓	Power cord included	✓
Ethernet LAN data rates	10,100,1000 Mbit/s	Other features	
Bluetooth	✓	AC adapter included	✓
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	✗		

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