



Buyers Guide | C1 2022

Acer® Predator Triton 500 SE Laptop
PT516-52s-73YD





Model	Acer® Predator Triton 500 SE PT516-52s-73YD Laptop	
MSRP	\$2,399.99	
On-Shelf Date	March 25, 2022	

High Level Specifications

- Intel® Core™ i7-12700H Processor - up to 4.7GHz, 14 cores, 20 threads, 24MB Intel Smart Cache
- Overclockable NVIDIA® GeForce RTX™ 3070 Ti Laptop GPU with 8GB of dedicated GDDR6 VRAM, NVIDIA® Advanced Optimus, NVIDIA® DLSS, NVIDIA® Resizable BAR, NVIDIA® Dynamic Boost 2.0, NVIDIA® GPU Boost™
- 16.0" WQXGA (2560 x 1600) LED-backlit IPS 240Hz Display with NVIDIA G-SYNC™
- 16:10 Aspect Ratio, 500nit Brightness, DCI-P3 100%
- 16GB LPDDR5 SDRAM Onboard Memory and 1TB PCIe Gen4x4 SSD
- DTS® X-Ultra Audio
- Killer™ Wireless Wi-Fi 6E AX1675 supports dual-stream Wi-Fi in the 2.4GHz, 5GHz and 6GHz bands, including 2x2 MU-MIMO Technology
- Killer™ Ethernet E3100 10/100/1000 2.5G Ethernet LAN
- Bluetooth® 5.2
- Triple-Fan System with Vortex Flow Optimization featuring a 5th Gen AeroBlade™ 3D Fan
- Turbo Button for Instant Graphics Overclocking
- Acer Fingerprint Reader supporting Windows Hello
- 2 - Thunderbolt™ 4: USB Type-C™ Ports featuring USB 3.2 Gen 2 (up to 10 Gbps), DisplayPort over USB Type-C & USB Charging
- 1 - USB 3.2 Gen 2 Port (Featuring Power-off Charging) and 1 - USB 3.2 Gen 2 Port
- 1 - HDMI™ Port 2.1 with HDCP Support
- SD™ 7.0 Card reader
- Acer Purified.Voice technology with two built-in microphones
- FHD Webcam (1920 x 1080) with Blue Glass supporting 1080 HD Video
- 3-Zone RGB Backlit Keyboard
- Lithium-ion 99.98 Watt Hour Battery
- Windows 11 Home

What's in the Box

- Laptop
- AC Adapter & Power Cord

Key Features



Web Description

Acer Predator Triton 500 SE PT516-52s-73YD Gaming/Creator Laptop, 12th Gen Intel Core i7-12700H Processor, Overclockable NVIDIA GeForce RTX 3070 Ti Laptop GPU, 16.0" WQXGA (2560 x 1600) NVIDIA G-SYNC 240Hz IPS Display, 16GB LPDDR5, 1TB PCIe Gen4x4 SSD, SD 7.0 Card reader, Fingerprint Reader, 3-Zone RGB Backlit Keyboard, Windows 11 Home



The Next Evolution

The slim, spartan-styled Triton 500 SE is a thin gaming laptop forged with a purpose: to handle all your multi-tasking woes, dish out extreme performance, and empower your creativity at every turn. Discover the power of GeForce RTX™ 3070 Ti laptop graphics that deliver high frame rates paired with the latest 12th Gen Intel® Core™ i7 processor for epic streaming, photo editing and 3D rendering capabilities. Get smooth gameplay at refresh rates up to 240Hz on the 16" WQXGA IPS with NVIDIA G-SYNC™ Display — while a 3-Zone RGB backlit keyboard and stellar audio round out a gaming experience that's second to none!

Features



POWER TO PUSH THE LIMITS

Within the Triton's metallic shell, Intel's 12th Generation Processor distributes performance where you need it most - saving you time and increasing your ability to do things you want. With up to 4.7GHz Turbo, 14 cores and 20 threads, you get the performance you need to play, record and stream games with high FPS and effortlessly switch to heavy multitasking workloads like video, music and photo editing.



COOLING PERFECTED

The Triton 500 SE gaming laptop includes only the best: state-of-the-art cooling, custom-engineered 5th Gen AeroBlade™ 3D Fan Technology, Vortex Flow airFlow guidance (with tactfully-placed thermal foam) and the chilling effects of liquid metal thermal material on an already industry-leading 12th Gen Intel CPU.



KILL THE LAG

With the Intel® Killer™ E3100 Ethernet Controller, Killer Wi-Fi 6E AX1675, and Control Center 2.0, you have all the tools you need to clear out the online competition. You deserve the low latency and reliable connection that only Killer networks can provide.



MAX FPS. MAX QUALITY. POWERED BY AI.

The NVIDIA® GeForce RTX™ 3070 Ti laptop GPU is powered by NVIDIA's 2nd Gen RTX Ampere architecture to give you the most realistic ray-traced graphics and cutting-edge AI features like NVIDIA DLSS. So crank up the settings and resolution for an even better visual experience.



TAKE IT WITH YOU

At just 19.9 mm, the easily portable, all-metal Triton 500 SE is ready for travel and plenty of mayhem. With a 99.98 Watt Hour Battery, you'll have ample time to revel in victory as you drive your enemies before you or, should you be called upon to attend to matters that demand your absolute focus.



STAY CONNECTED

Offload photos via the SD™ 7.0 card reader and plug all your peripherals into the full range of USB 3.2 Gen 2, including either of the two incredibly fast Thunderbolt™ 4 USB-C ports - which support DisplayPort functionality and Power Delivery. The latest HDMI 2.1 specification also allows you to easily plug into an external 4K display at 120Hz.



IT'S OK TO STARE

This display deserves all your attention. At 16 inches with a 16:10 aspect ratio, the WQXGA 500 nits panel clocks in with a 240Hz refresh. Top it off with support for the frame- syncing power of NVIDIA® G-SYNC®, NVIDIA® Advanced Optimus and DDS (Dynamic Display Switch).



HEAR IT ALL

Turn any pair of headphones or speakers into a high-end 360° surround sound system - enabling you to experience your favorite movies, music and games with real-world spatial sound.



COMPLETE COMMAND

Give the 3-zone RGB keyboard a spin, pop open PredatorSense (via the ever-so convenient hotkey) and tailor it to your precise preferences. The custom utility app also allows you to monitor your system, overclock, create macros, and more.

Acer® Predator Triton 500 SE PT516-52s-73YD Laptop

Detailed Product Specifications

Processor

12th Generation Intel® Core™ i7-12700H 14-Core Processor 2.3GHz with Intel® Turbo Boost Max Technology 3.0⁽¹⁾ up to 4.7GHz, Supporting hybrid core architecture with Performance-core and Efficient-core (24MB Smart Cache)

Display

16.0" WQXGA (2560 x 1600) Widescreen LED-backlit IPS Display with NVIDIA G-SYNC™ technology, 240Hz Refresh Rate, 16:10 Aspect Ratio, 500nit Brightness, DCI-P3 100%

Memory

16GB LPDDR5 SDRAM Onboard Memory⁽²⁾
(16GB Onboard memory) - Max Memory 16GB

Video

NVIDIA® GeForce RTX™ 3070 Ti Laptop GPU with 8GB of dedicated GDDR6 VRAM, supporting 5888 NVIDIA® CUDA™ Cores, NVIDIA® G-SYNC®, NVIDIA® Advanced Optimus, NVIDIA® GeForce® Experience, 2nd Gen Ray Tracing Cores, 3rd Gen Tensor Cores, NVIDIA® DLSS, NVIDIA®Resizable BAR, NVIDIA® Dynamic Boost 2.0, NVIDIA® GPU Boost™, Vulkan RT API, Microsoft® DirectX® 12 Ultimate, OpenGL® 4.6, Game Ready Drivers, HDCP 2.3, VR Ready

Audio

DTS® X:Ultra Audio, featuring optimized Bass, Loudness, Speaker Protection with up to 6 custom content modes by smart amplifier

Acer TrueHarmony Technology

Two Built-in Stereo Speakers

Acer Purified.Voice technology with two built-in microphones

Storage

1TB PCIe Gen4x4 SSD

Optical Drive

Not Available

Digital Media Card Reader

SD™ 7.0 Card reader

Communications

Killer™ DoubleShot™ Pro Enabled

Killer™ Wireless Wi-Fi 6E AX1675 supports dual-stream Wi-Fi in the 2.4GHz, 5GHz and 6GHz bands, including 2x2 MU-MIMO Technology

Killer™ Ethernet E3100 10/100/1000 2.5G Ethernet LAN

Bluetooth® 5.2

Color

Steel Gray

Interfaces

2 - Thunderbolt™ 4: USB Type-C™ Ports USB 3.2 Gen 2 (up to 10 Gbps) DisplayPort over USB Type-C & USB Charging

1 - USB 3.2 Gen 2 Port (Featuring Power-off Charging)

1 - USB 3.2 Gen 2 Port

1 - HDMI™ Port 2.1 with HDCP Support

1 - Ethernet (RJ-45) Port

1 - Headphone/Speaker/Line-out Jack

1 - DC-in Jack for AC Adapter

1 - Kensington Lock Slot

Webcam

FHD Webcam (1920 x 1080) with Blue Glass supporting 1080 HD Video

Convenience Features

Precision Touchpad (Supporting Windows Modern Touchpad gestures)

Turbo Button

Media Control Function Keys

Fingerprint Reader

Acer Fingerprint Reader supporting Windows Hello

Battery Type

Lithium-ion 99.98 Watt Hour Battery

Dimensions (System)

14.11 (W) x 10.33 (D) x 0.78 (H) inches

358.5 (W) x 262.4 (D) x 19.9 (H) mm

Dimensions (Box)

21.81 (L) x 3.35 (W) x 14.69 (H) inches

554 (L) x 85 (W) x 373 (H) mm

Weights

5.29 lbs. | 2.4 kg. (system unit only)

Approximately 10.98 lbs. | 4.98 kg. (box)

Pallet Quantity

72 units per pallet

Premium Service

One-year International Travelers Limited Warranty (ITW) and 24/7 access to a dedicated support team, specialized in the Predator brand⁽⁶⁾

UPC

195133152341

Part Number

NH.QFQAA.001

Software

Windows 11 Home

Productivity

Acer Care Center

Microsoft® Office Trial⁽⁷⁾

Cyberlink® PhotoDirector 8

Cyberlink® PowerDirector 14

Multimedia

Netflix

Tools

PredatorSense

(1) Overall system performance is based on several PC attributes. GHZ, processor clock speed, is one of the attributes. Intel Turbo Boost Technology performance varies depending on hardware, software and overall system configuration.

(2) Shared system memory may be allocated to support integrated graphics depending on system memory size and other factors. Actual system memory available to the operating system will be reduced by the amount of shared system memory utilized by the graphics solution and resources required by the operating environment.

(3) Shared system memory may be allocated to support integrated graphics, depending on system memory size and other factors. Actual system memory available to the operating system will be reduced by the amount of dedicated and shared system memory utilized by the graphics solution and resources required by the operating environment.

(4) 1 GB is 1 billion bytes. Actual formatted capacity is less and may vary depending on preloaded materials and operating environment. Acer eRecovery Management utilizes up to 8 GB (10 GB with Microsoft® Office Starter 2010 Trial) of the stated hard disk capacity as dedicated backup space.

(5) Battery life varies depending on product specifications, computer settings and applications or features launched. Battery life was tested using video playback.

(6) For a free copy of the standard limited warranty end-users should see a reseller where Acer products are sold or write to Acer America Corporation, Warranty Department, P.O. Box 6137, Temple, TX 76503. TFT displays commonly exhibit a small number of discolored dots, so-called "nonconforming pixels." This phenomenon is a limitation of TFT LCD technology, not a product defect and, as such, is not covered by the limited warranty or by the upgrade programs. For International travelers warranty Valid only in countries where Acer has an authorized repair facility. For a list of those countries go to <http://global.acer.com/support/tw.htm> or call 800-816-2237. Services and response times may vary in countries outside the U.S. and Canada

(7) Microsoft Office Trial included. After or during the 30-day trial, purchase an Office Product Key to activate one of the following Office suites preloaded on this PC: Office Home and Student, Office Home and Business, Office Professional.

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