Nitro AN515-47 Specifications (v2-0-2)

Category		Description	Footnotes
Operating system	1	Windows 11 Home	
CPU and chipset	1	**AMD Ryzen™ 7 7735HS** octa-core processor (up to 4 MB L2 cache, up to 16 MB L3 cache, 3.2 GHz with boost up to 4.75 GHz) **AMD Ryzen™ 5 7535HS** hexa-core processor (up to 3 MB L2 cache, up to 16 MB L3 cache, 3.3 GHz with boost up to 4.55 GHz)	
Memory	1, 2, 3	Dual-channel DDR5 SDRAM support • Up to 32 GB of DDR5 system memory Memory Frequency : Up to 4800 MT/s	
Display		15.6" display with IPS (In-Plane Switching) technology, Full HD 1920 x 1080, high-brightness (300 nits) Acer ComfyView™ LED-backlit TFT LCD, supporting 165 Hz, 3 ms Overdrive, and G-Sync function. 16:9 aspect ratio, sRGB 100% Wide viewing angle up to 170 degrees Ultra-slim design Mercury free, environment friendly	4
		15.6" display with IPS (In-Plane Switching) technology, QHD 2560 x 1440, high-brightness (300 nits) Acer ComfyView™ LED-backlit TFT LCD, supporting 165 Hz, 3 ms Overdrive 16:9 aspect ratio, DCI-P3 100% Wide viewing angle up to 170 degrees Ultra-slim design Mercury free, environment friendly	4
		15.6" display with IPS (In-Plane Switching) technology, Full HD 1920 x 1080, Acer ComfyView™ LED-backlit TFT LCD 16:9 aspect ratio, supporting 144 Hz refresh rate. Wide viewing angle up to 170 degrees Ultra-slim design Mercury free, environment friendly	4
		15.6" display with IPS (In-Plane Switching) technology, Full HD 1920 x 1080, high-brightness (300 nits) Acer ComfyView™ LED-backlit TFT LCD, supporting 144 Hz,3 ms Overdrive 16:9 aspect ratio, NTSC 72% Wide viewing angle up to 170 degrees Ultra-slim design Mercury free, environment friendly	4
Graphics	1	**NVIDIA® GeForce RTX™ 3050 Ti** with 4GB of dedicated GDDR6 VRAM • 1485 - 1695 MHz Boost Clock	5

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	Graphics Special Technology# • NVIDIA® Ampere Streaming Multiprocessors • 2nd Generation RT Cores • 3rd Generation Tensor Cores • Dynamic Boost 2.0 • WhisperMode 2.0 • Resizable BAR • DLSS • Advanced Optimus • Intelligent Battery Life • HDMI 2.1 **NVIDIA® GeForce® RTX™ 3050** with 4GB of dedicated GDDR6 VRAM • 1500 - 1740 MHz Boost Clock **Graphics Special Technology#** • NVIDIA® Ampere Streaming Multiprocessors • 2nd Generation RT Cores • 3rd Generation Tensor Cores • Dynamic Boost 2.0 • WhisperMode 2.0 • Resizable BAR • DLSS • Advanced Optimus • Intelligent Battery Life • HDMI® 2.1 (Notes: HDMI2.1: Support 4K 120Hz HDR, 8K 60Hz HDR, VRR, G-sync compatible external monitor)	5
Audio	• DTS® X:Ultra Audio, featuring optimized Bass, Loudness, Speaker Protection with up to 6 custom content modes by smart amplifier • Supported in Windows Spatial Sound for PC Gaming with DTS license integrated • Immersive audio rendering over headphones and internal speakers • Acer Purified.Voice technology with AI noise reduction in dual built-in microphones. Features include far-field pickup, dynamic noise reduction through neural network, adaptive beam forming, and pre-defined personal and conference call modes. • Compatible with Cortana with Voice • Acer TrueHarmony technology for lower distortion, wider frequency range, headphone-like audio and powerful sound	
Storage	**Solid state drive** • 512 GB / 1 TB, PCIe Gen4, 16 Gb/s, NVMe	1, 6
Webcam [1]	**Video conferencing** UFC with • Narrow USB HD camera • Compatible with Windows	

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		• 1280 x 720 resolution • 720p HD video at 30 fps with Temporal Noise Reduction • Blue Glass lens • Dual Mic (33 mm + 33 mm) • 86 x 3.2 x 2.6 mm	
Wireless and networking	1	**WLAN** • Wi-Fi 6E Wireless LAN • 802.11 a/b/g/n/ac/ax wireless LAN • Band: 2.4 GHz, 5 GHz, and 6 GHz • 2x2 MU-MIMO technology • Support Bluetooth® 5.2 and later • Dual Band Simultaneous • Wi-Fi 6E Wireless LAN • 802.11 a/b/g/n/ac/ax wireless LAN • Band: 2.4 GHz, 5 GHz, and 6 GHz • 2X2 MU-MIMO technology • Supports Bluetooth® 5.2 and later **LAN** • Killer™ Ethernet E2600 • 10/100/1000 Mbps • Hibernation mode support • Wake On Lan support • IPv4 and IPv6 support	
Security		Firmware Trusted Platform Module (TPM) solution BIOS user, supervisor passwords, Kensington lock slot	
Dimensions and weight	7, 8	**Dimensions** • 360.4 (W) x 271.09 (D) x 25.9/26.9 (H) mm (14.19 x 10.67 x 1.02/1.06 inches) **Weight** • 2.5 kg (5.51 lbs.) with 4-cell battery pack	
Power adapter and battery	9, 10	**Power adapter** 3-pin 180 W AC adapter • 145 (W) x 75 (D) x 23 (H) mm (5.92 x 2.95 x 0.91 inches) • 510 g (1.12 lbs) with 180 cm DC cable **Battery** • 57.5 Wh 4-cell Li-ion battery (for models with Full HD Panel + SSD) Battery life: Up to 5.5 hours (based on MobileMark® 2018 test results) Up to 7.5 hours (based on video playback test results) Up to 8 hours (based on web browsing test results)	11

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Input and control	**Keyboard** 103-/104-/107-key FineTip RGB-backlit keyboard with independent standard numeric keypad, international language support 103-/104-/107-key FineTip backlit keyboard with independent standard numeric keypad, international language support and power button **TouchPad** Multi-gesture touchpad, supporting two-finger scroll; pinch; gestures to open Cortana, Action Center, multitasking; application commands • Microsoft Precision Touchpad certification • Moisture resistant **Media Keys** Media control keys (printed on keyboard): play/pause, stop, previous, next, volume up, volume down	
Input and output	**USB Type-C** USB Type-C™ port: USB 3.2 Gen 2 (up to 10 Gbps) • USB 3.2 Gen 2 (up to 10 Gbps) • DisplayPort over USB-C • USB charging 5 V; 3 A • DC-in port 20 V; 100 W 3.5 mm headphone/speaker jack, supporting headsets with built-in microphone DC-in jack for AC adapter Ethernet (RJ-45) port HDMI® 2.1 port with HDCP support **USB Standard A** Three USB Standard-A ports, supporting: • One port for USB 3.2 Gen 1 • One port for USB 3.2 Gen 2 • One port for USB 3.2 Gen 2 featuring power off USB charging (Notes: HDMI2.1: Support 4K 120Hz HDR, 8K 60Hz HDR, VRR, G-sync compatible external monitor)	
Software 12	**Games** • Planet9 Stub (For Gaming) **In-House** • Acer Care Center • Acer Configuration Manager • Acer Product Registration • NitroSense • Quick Access **Security** • Norton™ Internet Security L3 • PC Manager **Tools** • Amazon Alexa	

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Warranty	One-year International Travelers Warranty (ITW)	
Quality and reliability tests	Temperature and humidity Hinge life Weight and pressure Acoustics Spillage Free drop Shock and vibration Electrostatic discharge immunity Keyboard-switch life MTBF (mean time between failures)	

1. Specifications vary depending on model.
2. Shared system memory may be allocated to support graphics, depending on system memory size and other factors. Actual system memory available to the operating system will be reduced by any memory used by the graphics solution and resources required by the operating environment.
3. Memory speed may vary, depending on the CPU, chipset or memory fitted.
4. All brands and product names mentioned herein include trademarks of their respective companies and are used solely to describe or identify the products.
5. Not all features indicated are supported on all SKUs
6. 1 GB is 1 billion bytes. Actual formatted capacity is less and may vary depending on preloaded materials and operating environment. Acer Recovery Management uses a portion of the stated hard disk capacity as dedicated backup space.
7. Minor variations in system dimensions are possible due to the manufacturing process.
8. Weight may vary depending on product configuration, vendor components, manufacturing variability, and selected options.
9. Listed battery life is based on testing using video playback. The test clip loops and continues to run, without interruption or any other inputs, until the battery is drained. Stated battery life is for comparison purpose only. Actual battery life varies by model, configuration, applications, video chip format and features used. A battery's maximum capacity decreases with time and use. Battery life test configuration: AMD Ryzen™ 7 7000, NVIDIA® GeForce RTX™ 3050, FHD, Dual SSD, 16GB of DDR5 memory. Battery life test condition: LCD brightness 150 nits, connected headphones, WLAN off, Bluetooth off and Better Battery Mode on.
10. Listed battery life is based on testing using Web browsing. The test clip loops the loading of 50 selected websites using Microsoft Edge every 30 seconds, until the battery is drained. Stated battery life is for comparison purpose only. Actual battery life varies by model, configuration, applications, video chip format and features used. A battery's maximum capacity decreases with time and use. Battery life test configuration: AMD Ryzen™ 7 7000, NVIDIA® GeForce RTX™ 3050, FHD, Dual SSD, 16GB of DDR5 memory. Battery life test condition: 100 nits LCD brightness, 50% speaker volume, WLAN on, Bluetooth on, no WW direct Internet connection.
11. *Actual battery life may vary considerably by specifications, depending on product model, configuration, applications, power management settings, operating conditions, and features utilized. Performance variation also arises based on components in use, which includes but is not limited to the processor, RAM capacity, storage, display and resolution, etc.*
12. Bundled software may vary depending on hardware configuration, OS and regional availability.

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In a continuing effort to improve the quality of our products, information in this document is subject to change without notice. Images shown are only representations of some of the configurations available for this model. Availability may vary depending on region.

As a phenomenon known to thin-film transistors (TFTs), liquid crystal displays (LCDs) commonly exhibit a small number of discoloration dots, as so-called "non-conforming pixels." This phenomenon is a limitation of TFT LCD technology, not a product defect, and as such is not covered by Acer's warranty.

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