



Nitro AN515-54 Specifications (v2-0-1)		
Category	Description	Footnotes
<b>Operating system</b> 1	Windows 10 Home 64-bit	2
<b>CPU and chipset</b> 1	<b>Intel® Core™ i7-9750H</b> processor (12 MB Smart Cache, 2.6 GHz with Turbo Boost up to 4.5 GHz, DDR4) <b>Intel® Core™ i7-8750H</b> processor (9 MB Smart Cache, 2.2 GHz with Turbo Boost up to 4.1 GHz, DDR4, 45 W) <b>Intel® Core™ i5-9300H</b> processor (8 MB Smart Cache, 2.4 GHz with Turbo Boost up to 4.1 GHz, DDR4) <b>Intel® Core™ i5-8300H</b> processor (8 MB Smart Cache, 2.3 GHz with Turbo Boost up to 4.0 GHz, DDR4, 45 W) Intel® HM370 Mobile PCH chipset	
<b>Memory</b> 1, 3, 4	Dual-channel DDR4 SDRAM support: <ul style="list-style-type: none"> <li>Up to 16 GB of DDR4 system memory, upgradable to 32 GB using two soDIMM modules</li> </ul>	4, 5
<b>Display</b>	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	6
	15.6" display with IPS (In-Plane Switching) technology, Full HD 1920 x 1080, high-brightness (300 nits) Acer ComfyView™ LED-backlit TFT LCD 16:9 aspect ratio, NTSC 72% Wide viewing angle up to 170 degrees Slim and narrow border design Mercury free, environment friendly	6
	15.6" display with IPS (In-Plane Switching) technology, Full HD 1920 x 1080, Acer ComfyView™ LED-backlit TFT LCD 16:9 aspect ratio Wide viewing angle up to 170 degrees Ultra-slim design Mercury free, environment friendly	6
<b>Graphics</b> 1	<b>NVIDIA® GeForce® GTX 1660 Ti</b> with 6 GB of dedicated GDDR6 VRAM, supporting NVIDIA® CUDA™, PhysX™, PureVideo® HD technology, GPU Battery Boost technology, ShadowPlay technology, GameStream technology, Multi-Frame sampled Anti-Aliasing (MFAA), Dynamic Super	

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	<p>Resolution (DSR), Voxel Global Illumination (VXGI). Microsoft® DirectX® 12, OpenGL® 4.5, OpenCL™ 1.1</p> <p><b>NVIDIA® GeForce® GTX 1650</b> with 4 GB of dedicated GDDR5 VRAM, supporting NVIDIA® CUDA™, PhysX™, PureVideo® HD technology, GPU Battery Boost technology, ShadowPlay technology, GameStream technology, Multi-Frame sampled Anti-Aliasing (MFAA), Dynamic Super Resolution (DSR), Voxel Global Illumination (VXGI). Microsoft® DirectX® 12, OpenGL® 4.5, OpenCL™ 1.1</p> <p><b>NVIDIA® GeForce® GTX 1050</b> with 3 GB of dedicated GDDR5 VRAM, supporting NVIDIA® CUDA™, PhysX™, PureVideo® HD technology, GPU Battery Boost technology, ShadowPlay technology, GameStream technology, Multi-Frame sampled Anti-Aliasing (MFAA), Dynamic Super Resolution (DSR), Voxel Global Illumination (VXGI). Microsoft® DirectX® 12, OpenGL® 4.5, OpenCL™ 1.1</p>	
<b>Audio</b>	<ul style="list-style-type: none"> <li>• Waves MaxxAudio® sound technology, featuring MaxxBass®, MaxxVolume®, MaxxDialog™</li> <li>• Acer Purified.Voice technology with two built-in microphones. Features include far-field pickup, keystroke suppression, voice tracking, adaptive beam forming, voice recognition enhancement, three pre-defined modes: voice recognition, personal call, conference call</li> <li>• Acer TrueHarmony technology for lower distortion, wider frequency range, headphone-like audio and powerful sound</li> <li>• Compatible with Cortana with Voice</li> <li>• Certified for Skype for Business</li> <li>• Two built-in stereo speakers</li> </ul>	
<b>Storage</b>	<p><b>Solid state drive</b></p> <ul style="list-style-type: none"> <li>• 256 GB / 512 GB / 1 TB, 2D NVMe, RAID 0 SSD</li> <li>• 512 GB, PCIe Gen3, 8 Gb/s up to 4 lanes, NVMe</li> <li>• 256 GB, PCIe Gen3, 8 Gb/s up to 4 lanes, NVMe</li> <li>• 128 GB, PCIe Gen3, 8 Gb/s, NVMe</li> </ul> <p><b>Hard disk drive</b></p> <ul style="list-style-type: none"> <li>• 1 TB / 2 TB 2.5-inch 5400 RPM</li> </ul>	<p>1, 7</p> <p>1, 7</p> <p>1, 7</p> <p>8</p>
<b>Webcam</b> 1	<p><b>Video conferencing</b></p> <p>HD webcam with:</p> <ul style="list-style-type: none"> <li>• 1280 x 720 resolution</li> <li>• 720p HD audio/video recording</li> <li>• Super high dynamic range imaging (SHDR)</li> </ul>	
<b>Wireless and networking</b> 1	<p><b>WLAN</b></p> <ul style="list-style-type: none"> <li>• Intel® Wireless-AC 9560, 802.11a/b/g/n/ac wireless LAN</li> <li>• Dual Band (2.4 GHz and 5 GHz)</li> <li>• 2x2 MU-MIMO technology</li> </ul>	

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	<ul style="list-style-type: none"> <li>• Supports Bluetooth® 5.0</li> </ul> <b>LAN</b> <ul style="list-style-type: none"> <li>• Realtek RTL8118ASA-CG</li> <li>• Gigabit Ethernet</li> <li>• Wake-on-LAN and 'RealWoW!' technology (remote wake-up) support</li> <li>• Killer™ Ethernet E2500</li> <li>• Gigabit Ethernet</li> <li>• Wake-on-LAN ready</li> </ul>	
<b>Security</b>	BIOS user, supervisor, HDD passwords Kensington lock slot	
<b>Dimensions and weight</b> 9, 10	<b>Dimensions</b> <ul style="list-style-type: none"> <li>• 363.4 (W) x 255 (D) x 24.35/26.84 (H) mm (14.31 x 10.04 x 0.96/1.06 inches)</li> </ul> <b>Weight</b> <ul style="list-style-type: none"> <li>• 2.3 kg (5.07 lbs.) with 4-cell battery pack, one hard drive</li> <li>• 2.3 kg (5.07 lbs.) with 4-cell battery pack, one hard drive and one SSD</li> <li>• 2.2 kg (4.85 lbs.) with 4-cell battery pack, solid state drive</li> </ul>	
<b>Power adapter and battery</b>	<b>Battery</b> <ul style="list-style-type: none"> <li>• 57.48 Wh 3733 mAh 15.4 V 4-cell Li-ion battery pack (for models with Full HD Panel)</li> </ul> Battery life: Up to 7 hours (based on MobileMark® 2014 test results) Up to 7 hours (based on video playback test results) Up to 7 hours (based on web browsing test results)	11
<b>Input and control</b>	<b>Keyboard</b> 103-/104-/107-key FineTip backlit keyboard with independent standard numeric keypad, international language support and power button <b>TouchPad</b> Multi-gesture touchpad, supporting two-finger scroll; pinch; gestures to open Cortana, Action Center, multitasking; application commands <ul style="list-style-type: none"> <li>• Microsoft Precision Touchpad certification</li> </ul>	
<b>Input and output</b>	USB Type-C™ port: USB 3.1 Gen 1 (up to 5 Gbps) Two USB 3.1 Gen1 ports with one featuring power-off USB charging USB 2.0 port HDMI® 2.0 port with HDCP support 3.5 mm headphone/speaker jack, supporting headsets with built-in microphone Ethernet (RJ-45) port	
<b>Windows Store Apps</b> 12	<b>In-House</b> <ul style="list-style-type: none"> <li>• Acer Collection</li> <li>• Quick Access</li> </ul> <b>Productivity</b> <ul style="list-style-type: none"> <li>• Cyberlink® PhotoDirector 8</li> <li>• Cyberlink® PowerDirector 14</li> </ul>	

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		<b>Tools</b> <ul style="list-style-type: none"> <li>• MS Remote Desktop</li> <li>• MS Translator</li> </ul>
<b>Windows Desktop Apps</b>	12	<b>Games</b> <ul style="list-style-type: none"> <li>• XSplit Gamecaster</li> </ul> <b>In-House</b> <ul style="list-style-type: none"> <li>• Acer Product Registration</li> <li>• NitroSense</li> <li>• PredatorSense</li> <li>• PredatorSense (Version 3)</li> </ul>
<b>Warranty</b>		One-year International Travelers Warranty (ITW)
<ol style="list-style-type: none"> <li>1. Specifications vary depending on model.</li> <li>2. 64-bit software is required to enjoy the advantages of 64-bit processing.</li> <li>3. 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.</li> <li>4. Memory speed may vary, depending on the CPU, chipset or memory fitted.</li> <li>5. A 64-bit operating system is required to enjoy the ultimate performance of 4 GB or higher memory.</li> <li>6. All brands and product names mentioned herein include trademarks of their respective companies and are used solely to describe or identify the products.</li> <li>7. 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.</li> <li>8. 1 GB is 1 billion bytes, 1 TB is 1000 GB. Actual formatted capacity is less and may vary depending on preloaded materials and operating environment. Recovery Management uses a portion of the stated hard disk capacity as dedicated backup space.</li> <li>9. Minor variations in system dimensions are possible due to the manufacturing process.</li> <li>10. Weight may vary depending on product configuration, vendor components, manufacturing variability, and selected options.</li> <li>11. Listed battery life is based on MobileMark 2014® productivity mode testing with wireless on. Details of MobileMark 2014 testing are available at <a href="http://www.bapco.com">www.bapco.com</a>. Battery life rating is for comparison purposes only. Actual battery life varies by model, configuration, application, power management settings, operating conditions, and features used. A battery's maximum capacity decreases with time and use.</li> <li>12. Bundled software may vary depending on hardware configuration, OS and regional availability.</li> </ol> <p>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.</p> <p>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.</p> <p>© 2019. All rights reserved.</p> <p>Microsoft and Windows are registered trademarks of Microsoft Corporation.</p>		

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# Appendix

## v2-0-1 (Ver. 2)

Power adapter and battery