



TravelMate Spin B311RN-31 (Win10) Specifications (v2-0-2)		
Category	Description	Footnotes
Operating system 1	Windows 10 Pro 64-bit (Acer recommends Windows 10 Pro for business.) Windows 10 Home 64-bit	2 2
CPU and chipset 1	Intel® Celeron® dual-core processor N4020 (4 MB L2 cache, 1.10 GHz, up to 2.80 GHz with Intel® Burst Technology, DDR4 or LPDDR4) Intel® Celeron® quad-core processor N4120 (4 MB L2 cache, 1.10 GHz, up to 2.60 GHz with Intel® Burst Technology, DDR4 or LPDDR4) Intel® Pentium® Silver N5030 Processor (4 MB L2 Cache, 1.10 GHz, up to 3.10 GHz with Intel® Burst Technology, DDR4 or LPDDR4)	
Memory 1, 3, 4	Dual-channel DDR4 SDRAM support <ul style="list-style-type: none"> • 4 GB of onboard DDR4 system memory • 8 GB of onboard DDR4 system memory 	4, 5
Display	11.6" display with IPS (In-Plane Switching) technology, Full HD 1920 x 1080 resolution, high-brightness, LED-backlit TFT LCD with integrated multi-touch, supporting AES Pen solution Wide viewing angle 16:9 aspect ratio Mercury free, environment friendly	6
Graphics	Intel® UHD Graphics 600 , supporting OpenGL® 4.4, OpenCL™ 1.2, Vulkan, Microsoft® DirectX® 12 Intel® UHD Graphics 605 , supporting OpenGL® 4.4, OpenCL™ 1.2, Vulkan, Microsoft® DirectX® 12	
Audio	<ul style="list-style-type: none"> • 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 • Built-in digital microphone on world facing camera (Optional) • Acer TrueHarmony technology for lower distortion, wider frequency range, headphone-like audio and powerful sound • Two built-in stereo speakers • Certified for Microsoft Teams 	
Storage	Solid state drive <ul style="list-style-type: none"> • 128 GB, PCIe Gen3, 8 Gb/s, NVMe • 256 GB, PCIe Gen3, 8 Gb/s up to 4 lanes, NVMe • 128 GB eMMC • 64 GB eMMC Card reader	1, 7 1, 7 7 7

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		<ul style="list-style-type: none"> Supporting: SD™ Card 	
Webcam	1	Video conferencing HD webcam with: <ul style="list-style-type: none"> 1280 x 720 resolution 720p HD audio/video recording Super high dynamic range imaging (SHDR) Camera shutter cover Acer webcam with: <ul style="list-style-type: none"> 2560 x 1920 resolution 1080p Full HD audio/video recording Integrated USB 2.0 controller 	
Wireless and networking	1	WLAN <ul style="list-style-type: none"> Intel® Wireless-AC 9560, 802.11a/b/g/n/ac wireless LAN Dual Band (2.4 GHz and 5 GHz) 2x2 MU-MIMO technology Supports Bluetooth® 5.0 LAN <ul style="list-style-type: none"> Gigabit Ethernet, Wake-on-LAN ready 	
Security		Discrete Trusted Platform Module (TPM) solution BIOS user, supervisor passwords, Kensington lock slot	
Dimensions and weight	1, 8, 9	Dimensions <ul style="list-style-type: none"> 295 (W) x 212 (D) x 20.95 (H) mm (11.61 x 8.35 x 0.82 inches) Weight <ul style="list-style-type: none"> 1.49 kg (2.2 lbs.) with 3-cell battery pack 	
Power adapter and battery	1	Power adapter 3-pin 45 W AC adapter: <ul style="list-style-type: none"> 94 (W) x 39 (D) x 26.5 (H) mm (3.70 x 1.54 x 1.04 inches) 142 g with 150 cm DC cable Battery <ul style="list-style-type: none"> 48 Wh 3-cell Li-ion battery (for models with Full HD Panel) Battery life: Up to 12 hours Up to 12 hours (based on MobileMark® 2014 test results)	10
Input and control		Keyboard 81-/82-/86-key Acer FineTip EDU anchored keyboard with international language support TouchPad Multi-gesture touchpad, supporting two-finger scroll; pinch; gestures to open Cortana, Action Center, multitasking; application commands <ul style="list-style-type: none"> Microsoft Precision Touchpad certification Moisture resistant 	
Input and output		USB Type-C™ port supporting:	

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	<ul style="list-style-type: none"> • USB 3.2 Gen 1 (up to 5 Gbps) • DisplayPort over USB-C • USB charging 5 V; 3 A • DC-in port 5 or 9 or 15 or 20 V; 45 W <p>Two USB 3.2 Gen 1 ports</p> <p>HDMI® port.</p> <p>microSD™ Card reader</p> <p>Ethernet (RJ-45) port</p> <p>3.5 mm headphone/speaker jack, supporting headsets with built-in microphone</p>	
Sensors	<p>Hall sensor</p> <p>Accelerometer (G-sensor)</p>	
Windows Desktop Apps 11	<p>In-House</p> <ul style="list-style-type: none"> • Acer Control Center • Acer Office Manager Agent • Acer Office Manager Console • Acer Product Registration <p>Security</p> <ul style="list-style-type: none"> • Acer Proshield • GOTrust • Norton™ Internet Security • Norton™ Internet Security L3 	
Options and accessories	<p>Acer Active Pen</p> <ul style="list-style-type: none"> • Length: 125.31 mm (with customized endcap); diameter: 5.3 mm • Weight: 4.1 g (with customized endcap) • Pen force: 4096 levels • Two configurable buttons • Not replaceable fast charging supercap • Protocol: AES 1.0 • Operating and charging time: 15 seconds charging, 90 minutes operating; 300 seconds charging, 100 minutes operating. <p>Support Add-on features for Acer Type-C Dock II (ADK810)</p> <ul style="list-style-type: none"> • MAC address pass-through to Dock (for laptop with LAN chip) • Power button mirrors the host's • Wake-on-LAN from Sleep/Hibernate/Off mode • PXE boot via Dock LAN port • LED behavior aligned with the host power status <p>Support Acer USB Type-C Dock II (ADK810)</p> <ul style="list-style-type: none"> • Dimension: 204 (W) x 87 (D) x 23.9 (H) mm (8.03 x 3.42 x 0.94 inches) • Weight: 250 g (0.55 lbs) • Supporting up to three displays (one DP 1.2, two HDMI 2.0) with OS driver installed • One USB Type-C upstream port to host • One USB Type-C downstream port for device (data only) 	

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	<ul style="list-style-type: none"> · Three USB 3.1 (one BC1.2) ports · Ethernet (RJ45) port · Up to 60 W power supply delivering to system · Audio Combo Jack · 1 m USB Type-C cable · Vertical mode with stand · VESA mount mode HDMI [®] A-to-VGA cable	
System compliance	ENERGY STAR [®] Wi-Fi [®] EPEAT [®] registered	12
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)	
<ol style="list-style-type: none"> 1. Specifications vary depending on model. 2. 64-bit software is required to enjoy the advantages of 64-bit processing. 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. 4. Memory speed may vary, depending on the CPU, chipset or memory fitted. 5. A 64-bit operating system is required to enjoy the ultimate performance of 4 GB or higher memory. 6. All brands and product names mentioned herein include trademarks of their respective companies and are used solely to describe or identify the products. 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. 8. Minor variations in system dimensions are possible due to the manufacturing process. 9. Weight may vary depending on product configuration, vendor components, manufacturing variability, and selected options. 10. The listed battery life is tested by Google according to this formula (the test loops and continues running until the battery is drained): The first 60% of the test period is 1) Browsing: A new web page is loaded every minute. The web page is scrolled down to the first “page fold” (the bottom of the part of a web page that is visible on an average screen – a depth of around 600 pixels) every 10 seconds, then scrolled back up at the same rate. The next 20% of the test period is 2) Email: Gmail is loaded in the foreground tab and audio is streamed from a background tab. The next 10% is 3) Documents: Various Google Docs are loaded. The final 10% is 4) Online Video: A full-screen 480p YouTube video is played. 		

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- 11. Bundled software may vary depending on hardware configuration, OS and regional availability.
- 12. EPEAT® registration varies by country. See <http://www.epeat.net/> for registration status for each country.

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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