



## TravelMate Spin P414RN-54 Specifications (v9-0-6)

Category	Description	Footnotes
<b>Operating system</b>	1 Windows 11 Pro (Acer recommends Windows 11 Pro for business.) Windows 11 Home	
<b>CPU and chipset</b>	1 <p><b>Intel® Core™ Ultra 7 processor 165U</b> (12 MB Smart Cache, 1.7 GHz P-core base core frequency with Intel® Turbo Boost Technology 2.0 up to 4.9 GHz, Intel® AI Boost capable, and Intel® vPro™ Enterprise eligibility), supporting hybrid core architecture with Performance-core, Efficient-core, and Low-Power Efficient-core</p> <p><b>Intel® Core™ Ultra 7 processor 155U</b> (12 MB Smart Cache, 1.7 GHz P-core base core frequency with Intel® Turbo Boost Technology 2.0 up to 4.8 GHz, Intel® AI Boost capable), supporting hybrid core architecture with Performance-core, Efficient-core and Low-Power Efficient-core</p> <p><b>Intel® Core™ Ultra 7 processor 155H</b> (24 MB Smart Cache, 1.4 GHz P-core base core frequency with Intel® Turbo Boost Max Technology 3.0 up to 4.8 GHz, Intel® AI Boost capable), supporting hybrid core architecture with Performance-core, Efficient-core and Low-Power Efficient-core</p> <p><b>Intel® Core™ Ultra 5 processor 135U</b> (12 MB Smart Cache, 1.6 GHz P-core base core frequency with Intel® Turbo Boost Technology 2.0 up to 4.4 GHz, Intel® AI Boost capable, and Intel® vPro™ Enterprise eligibility), supporting hybrid core architecture with Performance-core, Efficient-core, and Low-Power Efficient-core</p> <p><b>Intel® Core™ Ultra 5 processor 125U</b> (12 MB Smart Cache, 1.3 GHz P-core base core frequency with Intel® Turbo Boost Technology 2.0 up to 4.3 GHz, Intel® AI Boost capable), supporting hybrid core architecture with Performance-core, Efficient-core and Low-Power Efficient-core</p> <p><b>Intel® Core™ Ultra 5 processor 125H</b> (18 MB Smart Cache, 1.2 GHz P-core base core frequency with Intel® Turbo Boost Technology 2.0 up to 4.5 GHz, Intel® AI Boost capable), supporting hybrid core architecture with Performance-core, Efficient-core and Low-Power Efficient-core</p> <p><b>Intel® Core™ Ultra 5 processor 115U</b> (10 MB Smart Cache, 1.5 GHz P-core base core frequency with Intel® Turbo Boost Technology 2.0 up to 4.2 GHz, Intel® AI Boost capable), supporting hybrid core architecture with Performance-core, Efficient-core and Low Power Efficient-core</p>	
<b>Memory</b>	1, 2, 3 Dual-channel DDR5 SDRAM support <ul style="list-style-type: none"> <li>Up to 64 GB of DDR5 system memory</li> </ul>	

<b>TravelMate Spin P414RN-54 Specifications (v9-0-6)</b>		
<b>Display</b>	14.0" display with IPS (In-Plane Switching) technology, WUXGA 1920 x 1200, Acer ComfyView™ LED-backlit TFT LCD, supporting multi-touch 16:10 aspect ratio, color gamut NTSC 45% Wide viewing angle up to 170 degrees Mercury free, environment friendly	4
	14.0" display with IPS (In-Plane Switching) technology, WUXGA 1920 x 1200, high-brightness (340 nits) Acer ComfyView™ LED-backlit TFT LCD, supporting multi-touch 16:10 aspect ratio, color gamut sRGB 100% Wide viewing angle up to 170 degrees Mercury free, environment friendly AES2.0 stylus supportive	4
<b>Graphics</b>	<b>Intel® Graphics</b> <b>Graphics Special Technology#</b> <ul style="list-style-type: none"> <li>• H.265/HEVC, VP9, AV1 Encode and Decode</li> <li>• OpenGL 4.5</li> <li>• OpenCL 3.0</li> <li>• DirectX 12</li> </ul>	5
	<b>Intel® ARC™ Graphics</b> eligible <b>Graphics Special Technology#</b> <ul style="list-style-type: none"> <li>• H.265/HEVC, VP9, AV1 Encode and Decode</li> <li>• OpenGL 4.5</li> <li>• OpenCL 3.0</li> <li>• DirectX 12</li> </ul>	5
<b>Audio</b>	<ul style="list-style-type: none"> <li>• DTS® Audio, featuring optimized bass response and micro-speaker distortion prevention</li> <li>• 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.</li> <li>• Acer TrueHarmony technology for lower distortion, wider frequency range, headphone-like audio and powerful sound</li> </ul>	
<b>Storage</b>	<b>Solid state drive</b> <ul style="list-style-type: none"> <li>• SSD slot: 1</li> <li>• 256 GB / 512 GB / 1 TB, PCIe Gen4, 16 Gb/s, NVMe</li> </ul>	1, 6 1, 6
<b>Webcam</b> 1	<b>Video conferencing</b> UFC with <ul style="list-style-type: none"> <li>• T-Type USB FHD camera + IR camera</li> <li>• Compatible with Windows only</li> <li>• 1920 x 1080 resolution</li> <li>• 1080p HD video at 60 fps with Temporal Noise Reduction</li> <li>• Dual Mic (33 mm + 33 mm)</li> <li>• 78 x 3.2 (5.2) x 3 mm</li> <li>• Blue glass lens</li> </ul>	

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		UFC with <ul style="list-style-type: none"> <li>• T-Type HD camera</li> <li>• Compatible with Windows only</li> <li>• 1280 x 720 resolution</li> <li>• 720p HD video at 30 fps with Temporal Noise Reduction</li> <li>• Blue Glass lens</li> <li>• Dual Mic (33 mm + 33 mm)</li> <li>• 78 x 3.2 (5.2) x 3 mm</li> </ul>
<b>Wireless and networking</b>	1	<b>WLAN</b> Intel® Connectivity Performance Suite (ICPS) Intel vPro® Enterprise <ul style="list-style-type: none"> <li>• Intel® Wi-Fi 6E Wireless LAN</li> <li>• 802.11 a/b/g/n/ac/ax</li> <li>• Band: 2.4 GHz, 5 GHz, and 6 GHz</li> <li>• 2x2 MU-MIMO technology</li> <li>• Intel® Connectivity Performance Suite (ICPS)</li> <li>• Intel® Wi-Fi 6E Wireless LAN</li> <li>• 802.11 a/b/g/n/ac/ax</li> <li>• Band: 2.4 GHz, 5 GHz, and 6 GHz</li> <li>• 2x2 MU-MIMO technology</li> <li>• Intel vPro® Enterprise</li> <li>• Intel® Connectivity Performance Suite (ICPS)</li> <li>• Intel® Wi-Fi 6E Wireless LAN</li> <li>• 802.11 a/b/g/n/ac/ax</li> <li>• Band: 2.4 GHz, 5 GHz, and 6 GHz</li> <li>• 2x2 MU-MIMO technology</li> </ul> <b>WPAN</b> Supports Bluetooth® 5.3 or above Supports Bluetooth LE Audio (LC3). <b>WWAN</b> <ul style="list-style-type: none"> <li>• LTE FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B14/B17/B18/B19/B20/B25/B26/B28/B29/B30/B32/B66/B71</li> <li>• LTE TDD: B34/B38/B39/B40/B41/B42/B43/B46/B48</li> <li>• WCDMA/HSPA+: B1/B2/B3/B4/B5/B6/B8/B19</li> <li>• Support up to LTE DL Cat.12</li> <li>• LTE Data Rate: Maximum download 600 Mbps, upload 150 Mbps</li> <li>• WCDMA Data Rate: Maximum download 384 kbps, upload 384 kbps</li> <li>• DC-HSPA+: Maximum download 42 Mbps</li> <li>• eSIM is included</li> </ul> eSIM support <b>LAN</b> <ul style="list-style-type: none"> <li>• Gigabit Ethernet</li> </ul>
<b>Security</b>		Power keycap fingerprint reader with on-chip matching design Acer ProShield Plus security manager includes:

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		<ul style="list-style-type: none"> <li>• Data Protection: File &amp; Folder Encryption and Decryption, Personal Security Drive</li> <li>• Data Removal: File Shredding</li> <li>• Security Alert: Invalid Access Alert, Security Report</li> </ul> Discrete Trusted Platform Module (TPM) solution BIOS user, supervisor, SSD passwords Kensington lock slot	1
<b>Dimensions and weight</b>	1, 7, 8	<b>Dimensions</b> <ul style="list-style-type: none"> <li>• 319 (W) x 229 (D) x 18.9/21.9 (H) mm (12.56 x 9.02 x 0.74/0.86 inches) with Metal A Cover</li> </ul> <b>Weight</b> <ul style="list-style-type: none"> <li>• 1.49 kg (3.28 lbs.) with 3-cell battery pack</li> </ul>	
<b>Power adapter and battery</b>	1	<b>Power adapter</b> USB Type-C 100 W PD PCR 50%, TCO9.0 AC adapter: <ul style="list-style-type: none"> <li>• 108 (W) x 56 (D) x 26.5 (H) mm (4.25 x 2.20 x 1.04 inches)</li> <li>• 5 V / 3 A or 9 V / 3 A or 12 V / 3 A or 15 V / 3 A or 20 V / 5 A as output power</li> <li>• 296 g with 150 cm DC cable</li> </ul> USB Type-C 65 W PD AC adapter: <ul style="list-style-type: none"> <li>• 108 (W) x 46 (D) x 29.5 (H) mm (4.25 x 1.81 x 1.16 inches)</li> <li>• 5 V / 3 A or 9 V / 3 A or 12 V / 3 A or 15 V / 3 A or 20 V / 3.25 A as output power</li> <li>• 250 g with 150 cm DC cable</li> </ul> <b>Battery</b> <ul style="list-style-type: none"> <li>• 53 Wh 3-cell Li-ion battery</li> <li>• Supports Fast Charging technology</li> <li>• For models with Full HD Panel + SSD</li> </ul> Battery life: Up to 10.5 hours (based on MobileMark® 2025 test results) <ul style="list-style-type: none"> <li>• 65 Wh 4-cell Li-ion battery</li> <li>• Supports Fast Charging technology</li> <li>• For models with Full HD Panel + SSD</li> </ul> Battery life: Up to 14.5 hours (based on MobileMark® 2025 test results) <ul style="list-style-type: none"> <li>• 65 Wh 3-cell Li-ion battery</li> <li>• Supports Fast Charging technology</li> <li>• For models with Full HD Panel + SSD</li> </ul> Battery life: Up to 14.5 hours (based on MobileMark® 2025 test results)	9  9  9
<b>Input and control</b>		<b>Control Keys</b> Copilot Key TravelMate Sense Key <b>Keyboard</b>	

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	<p>80-/81-/84-key Acer backlight keyboard layout with international language support including indicators of CapsLock and F4/Microphone mute</p> <p><b>TouchPad</b></p> <p>Multi-gesture touchpad, supporting two-finger scroll; pinch; gestures to open Cortana, Action Center, multitasking; application commands</p> <ul style="list-style-type: none"> <li>• Microsoft Precision Touchpad certification</li> <li>• Moisture resistant</li> <li>• Corning® Gorilla® Glass</li> </ul> <p>(Notes: (Notes: Spill Resistant Keyboard based on MIL-STD-810H Method 506.6 Procedure III Drip test))</p>	
<b>Input and output</b>	<p><b>USB Type-C</b></p> <p>Two USB Type-C™ ports</p> <p>USB Type-C™ port supporting:</p> <ul style="list-style-type: none"> <li>• USB4® 40Gbps</li> <li>• USB4® 40Gbps</li> <li>• DisplayPort over USB-C</li> <li>• Thunderbolt™ 4</li> <li>• USB charging 5 V; 3 A</li> <li>• DC-in port 20 V; 65 or 100 W</li> </ul> <p><b>USB Standard A</b></p> <p>Two USB Standard-A ports, supporting:</p> <ul style="list-style-type: none"> <li>• One port for USB 3.2 Gen 1</li> <li>• One port for USB 3.2 Gen 1 featuring power off USB charging</li> </ul> <p>Nano SIM slot (optional)</p> <p>HDMI® 2.1 port with HDCP support</p> <p>3.5 mm headphone/speaker jack, supporting headsets with built-in microphone</p> <p>Ethernet (RJ-45) port</p> <p>microSD™ Card reader</p>	
<b>Sensors</b>	<p>RGB color and ambient light sensor</p> <p>Time-of-Flight (ToF) Laser-Ranging Sensor</p>	
<b>Windows Desktop Apps</b> 10	<p><b>In-House</b></p> <ul style="list-style-type: none"> <li>• Acer AlterView</li> <li>• Acer LiveArt</li> <li>• Acer Product Registration</li> <li>• Acer QuickPanel</li> <li>• Quick Access</li> <li>• TravelMate Sense</li> </ul> <p><b>Security</b></p> <ul style="list-style-type: none"> <li>• Acer User Sensing</li> </ul>	
<b>Options and accessories</b>	<p><b>Accessory</b></p> <p>Support <b>Add-on features</b> for M33</p> <ul style="list-style-type: none"> <li>• LED behavior aligned with the host power status</li> </ul>	

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- Power button mirrors the host's
  - System MAC address pass-through to Dock
  - Wake-On-LAN from Sleep/Hibernate/Off mode
  - PXE boot via Dock LAN port
- Support **Add-on features** for T701
- MAC address pass-through to Dock (for host MAC address)
  - Wake-on-LAN from Sleep mode
  - PXE boot via Dock LAN port
- Support Acer Thunderbolt 4 Dock T701
- Dimension: 245 (W) x 84 (D) x 27 (H) mm ((9.65 x 3.31 x 1.06 inches)
  - Weight: 450 g(0.992 lbs)
  - Supports up to two displays via DP 1.4; two displays via HDMI 2.0; one display via Thunderbolt 4
  - Support up to four 4K-30Hz external multi-displays (TBT4 PC with HBR3 supporting DSC)
  - One TBT4 USB-C upstream port to host
  - One TBT4 USB-C downstream port
  - Two USB-C downstream port for device (data only with USB3.1 Gen2)
  - Four USB-A 3.1 Gen2 (one support BC1.2)
  - SD Card Reader
  - Gigabit Ethernet (RJ45) port (1000/100/10Mbps)
  - Up to 90W power supply delivering to system (65W PD when dock IO port full loaded)
  - Audio Combo Jack
  - Power Button (one click to connect/re-connect dock with host)
  - 0.8m TBT4 Type-C cable
  - Support for VESA mount
  - 135W Power Adapter
- SIM Card Tray Ejector Pin
- Acer Active Pen
- 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.
- Support **Acer Vero MST Dock M33**
- Dimension: 180 (W) x 82 (D) x 24.8 (H) mm ((7.09 x 3.23 x 0.98 inches)
  - Weight: 232 g(0.52 lbs)
  - built with 65% post-consumer recycled (PCR) plastic
  - Support two display with DP 1.4, one display with HDMI 2.0
  - Support up to three 4K-30Hz external multi-displays (HBR3 PC supporting DSC)

<b>TravelMate Spin P414RN-54 Specifications (v9-0-6)</b>		
	<ul style="list-style-type: none"> <li>· One USB-C upstream port to host</li> <li>· One USB-C downstream port for device (data only with USB3.2 Gen2)</li> <li>· two USB-A 3.2 Gen2 (one support BC1.2)</li> <li>· two USB-A 3.2 Gen1</li> <li>· Gigabit Ethernet (RJ45) port (1000/100/10Mbps)</li> <li>· Up to 100W power supply delivering to system (65W PD when dock IO port full loaded)</li> <li>· Audio Combo Jack</li> <li>· 1 m USB Type-C cable</li> <li>· support VESA mount</li> <li>· 135W Power Adapter</li> </ul>	
<b>System compliance</b>	ENERGY STAR® Wi-Fi® Intel® Project Athena Certification EPEAT® Gold	11
<b>Warranty</b>	One-year International Travelers Warranty (ITW)	
<b>Quality and reliability tests</b>	<b>Military Reliability Test</b> <b>MIL total test items as below.</b> Military Reliability Test: Mechanical Shock, Transit Drop (Packaged) 122 cm (MIL-STD 810H) Military Reliability Test: Mechanical Shock, Transit Drop (Unpackaged) 122 cm (MIL-STD 810H) Military Reliability Test: Vibration (MIL-STD 810H) Military Reliability Test: Sand and Dust (MIL-STD 810F) Military Reliability Test: Humidity (MIL-STD 810H) Military Reliability Test: Rain (MIL-STD 810H) Military Reliability Test: Low Temperature (MIL-STD 810H) Military Reliability Test: High Temperature (MIL-STD 810H) 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)	12
<b>Others</b>	<ul style="list-style-type: none"> <li>• Power LED indicator</li> <li>• Reset hole</li> </ul>	
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.		

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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. *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.*
10. Bundled software may vary depending on hardware configuration, OS and regional availability.
11. EPEAT® registration varies by country. See <http://www.epeat.net/> for registration status for each country.
12. *MIL-STD 810G/H is a testing protocol conducted in controlled settings and does not guarantee future performance in all situations. Do not attempt to simulate these tests, as damage resulting from this will not be covered by Acer's standard warranty.*

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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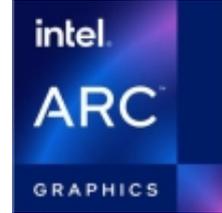
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# TravelMate Spin P414RN-54 Specifications (v9-0-6)



Purified.Voice



PurifiedVoice with AI Noise Reduction



Data Access



TPM



COMBO AUDIO JACK



# Appendix

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

No changes found!

## **v3-0-2 (Ver. 3)**

Wireless and networking

## **v4-0-2 (Ver. 4)**

Wireless and networking

Security

## **v5-0-2 (Ver. 5)**

Webcam

## **v6-0-3 (Ver. 6)**

Optical media drive

Quality and reliability tests

## **v8-0-5 (Ver. 7)**

About

Dimensions and weight

## **v9-0-6 (Ver. 8)**

System compliance

CPU and chipset

Options and accessories

Display

Graphics