

NEW

– Meet the AirLink® XR60, the World’s Smallest Rugged 5G Router – Now with 5-Year Warranty, Support and Management. Limited-Time Offer!

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# AirLink® RV55

## Ultra Low Power 4G Router

The AirLink® RV55 delivers LTE and Wi-Fi connectivity for vehicles and remote fixed assets operating in harsh environments. With ultra-low power consumption, the RV55 is ideal for solar/battery powered installations.

Single/Dual Serial	4G LTE Cat-12 or Cat-4
GNSS	Dual 1x1 Wi-Fi 5
IP64 Rated	1x Ethernet (1 Gbps)
AirLink Complete	



## AirLink® RV55 – Router Specifications

	North America	EMEA	Global
CELLULAR			
Peak D/L	<b>RV55 LTE</b> – Up to 150 Mbps, Cat 4 (WP7610   WP7607) <b>RV55 LTE-A PRO</b> – Up to 600 Mbps, Cat 12 (EM7511   EM7565)	<b>RV55 LTE</b> – Up to 150 Mbps, Cat 4 (WP7610   WP7607) <b>RV55 LTE-A PRO</b> – Up to 600 Mbps, Cat 12 (EM7511   EM7565)	<b>RV55 LTE</b> – Up to 150 Mbps, Cat 4 (WP7610   WP7607) <b>RV55 LTE-A PRO</b> – Up to 600 Mbps, Cat 12 (EM7511   EM7565)
Peak U/L	<b>RV55 LTE</b> – Up to 50 Mbps <b>RV55 LTE-A PRO</b> – Up to 150 Mbps	<b>RV55 LTE</b> – Up to 50 Mbps <b>RV55 LTE-A PRO</b> – Up to 150 Mbps	<b>RV55 LTE</b> – Up to 50 Mbps <b>RV55 LTE-A PRO</b> – Up to 150 Mbps

**4G LTE**

Frequency Bands	<b>RV55 LTE</b> – 1900(B2), AWS(B4), 850(B5), 700(B12), 700(B13), 700(B17), 1700(B66)	<b>RV55 LTE</b> – 2100(B1), 1800(B3), 2600(B7), 900(B8), 800(B20), 700(B28)	<b>RV55 LTE-A PRO</b> – 2100(B1), 1900(B2), 1800(B3), AWS(B4), 850(B5), 850(B5), 2600(B7), 900(B8), 1800(B9), 700(B12), 700(B13), 850(B18), 850(B19), 800(B20), 850(B26), 700(B29), 2300(B30), 1500(B32), TDD B41, TDD B42, TDD B43, TDD B46, CBRS B48, 1700(B66)
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**3G HSPA/HSPA+**

Frequency Bands*	<b>RV55 LTE</b> – 1900(B2), AWS(B4), 850(B5)	<b>RV55 LTE</b> – 2100(B1), 900(B8)	<b>RV55 LTE-A PRO</b> – 2100(B1), 1900(B2), AWS(B4), 850(B5), 800(B6), 900(B8), 1700(B9), 850(B19)
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**2G EDGE/GSM/GPRS**

Frequency Bands	<b>RV55 LTE</b> – 900, 1800
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**APPROVALS**

Regulatory**	<b>RV55 LTE</b> – FCC, IC, PTCRB <b>RV55 LTE-A PRO</b> – FCC, IC, PTCRB	<b>RV55 LTE</b> – GCF, CE	<b>RV55 LTE-A PRO</b> – FCC, IC, PTCRB, GCF, CE, RCM, IFT, Anatel
Carrier**	<b>55 LTE</b> – Verizon, AT&T, T-Mobile <b>RV55 LTE-A PRO</b> – Verizon, AT&T/FirstNet, US Cellular, T-Mobile, Telus, Rogers, Bell, Southern Linc		<b>RV55 LTE-A PRO</b> – Verizon, AT&T, Telstra (Planned)

**PART NUMBER**

Part Number	<b>RV55 LTE</b> – 1104335 <b>RV55 LTE-A PRO</b> – 1104303, 1104302 (Wi-Fi), 1104302 (Wi-Fi)	<b>RV55 LTE</b> – 1104337	<b>RV55 LTE-A PRO</b> – 1104332, 1104331 (Wi-Fi), 1104331 (Wi-Fi)
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\*For carrier-specific band support please refer to the hardware user guide.

\*\*All approvals are either granted or in progress. Call for the latest approval status.

**HOST INTERFACES**

10/100/1000 Ethernet (RJ45)  
 RS-232 serial port (DB-9)  
 USB 2.0 Micro-B Connector  
 3 SMA antenna (cellular, diversity, GNSS)  
 2 RP-SMA antenna (1×1 Wi-Fi, Optional)  
 Active GPS antenna support

**SECURITY**

Remote Authentication (LDAP, RADIUS, TACACS+, DMZ)  
 Inbound and Outbound Port filtering  
 Inbound and Outbound Trusted IP  
 MAC Address Filtering  
 PCI compatible  
 Secure Firmware Update

**WI-FI (OPTIONAL)**

Dual Band 2.4/5GHz Wi-Fi  
 Dual Radio, 802.11 b/g/n/ac (Wave2 Client Mode)  
 Support for 10 clients, WPA2 Enterprise per radio  
 Output power 16dBm  
 Configurable as Dual Band Access Point (AP) or AP+Client Mode  
 Single SSID Support per radio  
 Captive Portal

**SATELLITE NAVIGATION (GNSS)**

LTE-A Pro Variant: 30 Channel GPS and GLONASS Receiver (Tracking Sensitivity: -160dBm)  
 LTE Variant: 48 Channel Dedicated GNSS Receiver (Tracking Sensitivity: -162 dBm)  
 Accuracy: <2 m (50%), <5 m (90%), <0.2 m/s  
 Acquisition Time: 1s Hot Start  
 Reports: NMEA 0183 V3.0, TAIP, RAP, XORA  
 Multiple Redundant Servers  
 Reliable Store and Forward

**ENVIRONMENTAL**

**Operating Temperature** -40°C to +70°C / -40°F to +158°F

**Operating Temperature (Wi-Fi variant)** -30°C to +70°C / -22°F to +158°F

**Storage Temperature** -40°C to +85°C / -40°F to +185°F

**Humidity** 95% RH @ 60°C

Military Spec MIL-STD-810G conformance to shock, vibration, thermal shock, and humidity  
 IP64 rated ingress protection

**POWER****Input/Operating Voltage**

**Input Voltage:** 7 to 36 VDC  
 Configurable I/O pin on power connector  
 Digital Input ON Voltage: 2.7 to 36 VDC  
 Configurable Pull-up for dry contact input  
 Digital Open Collector Output > sinking 500 mA  
 Analog Input: 0.5-36 VDC

**Power Modes**

**Idle Power:** 900mW (75 mA @ 12VDC)  
**Standby Mode Power:** 53 mW (4.4 mA @ 12 VDC) triggered on low voltage, I/O or periodic timer  
 Low voltage disconnect to prevent battery drain  
 Built-in protection against voltage transients including 5 VDC engine cranking and +200 VDC load dump  
 Ignition Sense with time delay shutdown  
 Configurable features and ports to optimize power consumption

**NETWORK AND ROUTING**

Network Address Translation (NAT)  
 Reliable Static Route  
 Port Forwarding Dynamic DNS  
 Policy Routing Verizon PNTM  
 NEMO/DMNR IPV6 Gateway  
 VRRP

**VPN\*\***

IPsec, GRE, and OpenVPN Client  
 Up to 5 concurrent tunnels  
 Split Tunnel  
 Dead Peer Detection (DPD)  
 FIPS 140-2 compatible

**INDUSTRY CERTIFICATION****Safety**

IECEE Certification Bodies Scheme (CB Scheme), UL 60950\*\*\*\*

**Vehicle Usage**

E-Mark (UN ECE Regulation 10.04)

**Environmental**

RoHS, REACH, WEEE  
**Hazardous Environments:** Class 1 Div 2– Ambient temperatures of -30°C to +60°C

**Rail Usage**

EN50155, ISO7637-2, SAE J1455 (Shock & Vibration)

**SUPPORT AND WARRANTY**

1 year standard warranty with up to 5 years extended warranty with current AirLink Complete subscription.  
 Unrestricted critical firmware updates.

**LAN (ETHERNET/USB)**

DHCP Server Host Interface Watchdog  
 IP Passthrough PPPoE  
 VLAN

**SERIAL**

TCP/U DP PAD Mode  
 Modbus (ASCII, RTU, Variable)  
 PPP  
 DNP3 Interoperability  
 Dual Serial option (with an accessory)

**APPLICATION FRAMEWORK**

ALEOS Application Framework (AAF)  
 LUA Scripting Language

**NETWORK MANAGEMENT**

Secure mobile network & asset management application available in the cloud or licensed platform in the enterprise data center  
 Fleet wide firmware upgrade delivery  
 Router configuration and template management  
 Router staging over the air and local Ethernet connection  
 Over-the-air software and radio module firmware updates  
 Device Configuration Templates  
 Configurable monitoring and alerting  
 Remote provisioning and airtime activation (where applicable)

**ROUTER MANAGEMENT**

ALMS  
 Local web user interface  
 AT Command Line Interface (Telnet/SSH/Serial)  
 SMS Commands  
 SNMP

**EVENTS ENGINE**

Custom event triggers and reports  
 Configurable interface, no programming

**Event Types** Digital Input, Network Parameters, Data Usage, Timer, Power, Device Temperature and Voltage

**Report Types** RAP, SMS, Email, SNMP Trap, TCP (Binary, XML, CSV)

**Event Actions** Drive Relay Output

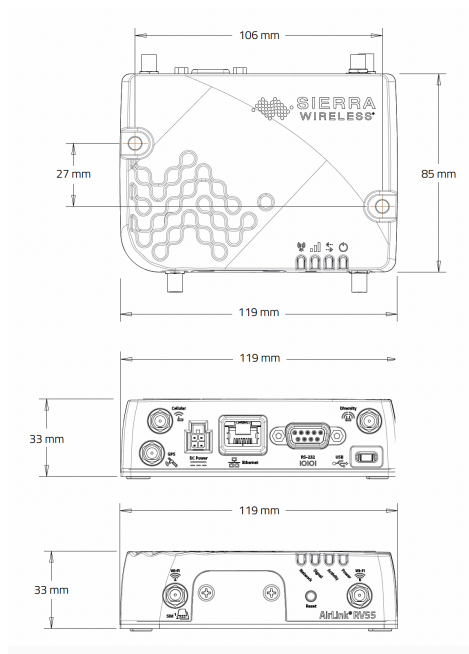
**ACCESSORIES**

**In The Box** RV55, DC Power Cable, and Quick Start Guide

**Other Accessories (Sold Separately)** 2000579 AC Adapter, 12VDC  
 6000659 DIN Rail Bracket  
 For Antenna options visit: [sierrawireless.com/antennas](https://www.sierrawireless.com/antennas)

**DIMENSIONS**

**AirLink RV55 – Main Body** 119 mm x 33 mm x 85 mm (102 mm including wi-fi connectors)  
 4.69 in x 1.34 in x 3.35 in (3.70 in including connectors) Weight: 320 g



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\*\*All approvals are either granted or in progress. Call for the latest approval status

\*\*\* IPsec, GRE and OpenVPN Client are not available in the member states of the EAEU

\*\*\*\* Ambient temperatures of -30C to +60C