



AirLink® RV55 Rugged LTE-A Pro Router

BENEFITS

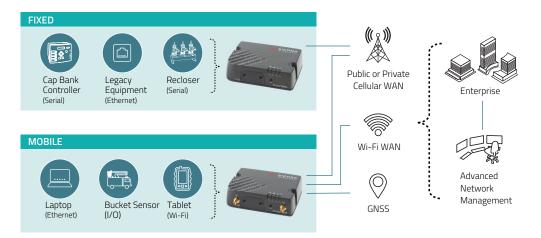
- Centrally managed, secure LTE broadband connectivity for both remote fixed or vehicle applications in harsh environments
- Ultra-Low Power consumption, ideal for solar or battery powered installations.
- Connect your field workers and devices with flexible dual Wi-Fi, and ethernet
- Reduces complexity in connecting legacy equipment with dual-serial, ethernet, and multi-protocol support
- Powerful remote cloud-based or on-premises management solutions
- Proven reliability and over 3 million AirLink routers and gateways deployed
- Peace of mind included 3-year warranty, direct 24/7 support, and device management access¹

Compact, Industrial Grade, Low Power LTE-Advanced Connectivity

The AirLink® RV55 is the industry's most rugged, compact, LTE-Advanced Pro router. Simple to install, and easy to manage, the RV55 router is designed for connecting critical remote assets, infrastructure, and vehicle fleets. The RV55 is especially well suited for applications in energy, utilities, smart city and public safety. The RV55 provides real-time remote connectivity for SCADA, distribution management systems and metering.

The RV55 high-performance LTE-Advanced Pro connectivity, Wi-Fi and GNSS and location-based applications and dual connectivity for vehicle fleets and mobile workforce. An LTE-M/NB-IoT variant is perfectly suited for hard to reach conditions.

The RV55 supports an extensive range of LTE bands worldwide, and its LTE-Advanced Pro capabilities deliver up to 600 Mbps downlink speeds. The RV55 also supports new unlicensed LTE bands (eg. CBRS) to support dedicated Private LTE service.





AirLink® RV55 Rugged LTE-A Pro Router

	RV55			
	North America Global		Global	
	LTE-	-A Pro	LTE-M/ NB-IoT	
LTE CATEGORY Peak D/L	Cat 12 (Up to 600 Mbps DL)		Cat M1/NB1 Cat-M1: 300kbps	
Peak U/L	(Up to 15	(Up to 150 Mbps UL)		
4G LTE				
Frequency Bands	2100(B1), 1900(B2), 1800(B3), AW5(B4), 850(B5), 2600(B7), 900(B8), 1800(B9), 700(B12), 700(B13), 700(B14), 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)	2100(B1), 1900(B2), 1800(B3), AWS(B4), 850(2600(B7), 900(B8), 1800(B9), 700(B12), 700(B 850(B18), 850(B19), 800(B20), 850(B26), 700(B28), 700(B29), 2300(B30), 1500(B32), T B41, TDD B42, TDD B43, TDD B46, CBRS B48 1700(B66)	813), 850(B5), 900(B8), 700(B12), 700(B13), 700(B17), 850 (B18), 850(B19), 800(B20), 850(B26),700(B28) DD	
3G HSPA/HSPA+ Frequency Bands* 2G EDGE/GSM/GPRS	2100(B1), 1900(B2), AWS(B4), 850(B5), 800(B6), 900(B8), 1700(B9), 850(B19)	2100(B1), 1900(B2), AWS(B4), 850(B5), 800(B 900(B8), 1700(B9), 850(B19)	6),	
Frequency Bands			850, 900, 1800, 1900	
APPROVALS				
Regulatory	FCC, IC, PTCRB	GCF, CE, RCM	FCC, IC, PTCRB, GCF, CE, RCM	
Carrier	Verizon, AT&T/FirstNet	Planned: Telstra	Planned: Verizon, AT&T	
	FIRSTNET READY			
PART NUMBER	1104303	1104332	1104333	
Regulatory	1104302 (Wi-Fi)	1104331 (Wi-Fi)		
	Crecification			
HOST INTERFACES	Specification 10/100/1000 Ethernet (RJ45)		Specification 30 Channel GPS and GLONASS Receiver	
HUSTINTERFACES				
	RS-232 serial port (DB-9)		Acquisition Time: 1 s Hot Start	
	USB 2.0 Micro-B Connector		Accuracy: <2 m (50%), <5 m (90%), <0.2 m/s	
	3 SMA antenna (cellular, diversity, Active GNSS)		Tracking Sensitivity: -160 dBm	
	2 RP-SMA antenna (1x1 Wi-Fi, Optional)		Reports: NMEA 0183 V3.0, TAIP, RAP, XORA	
	LTE-M/NB-IoT: 1 SMA (cellular) only, no GNSS or Wi-		Aultiple Redundant Servers	
	Active GPS antenna support		Reliable Store and Forward	
WI-FI (Optional)	Dual Band 2.4/5GHz Wi-Fi		Remote Authentication (LDAP, RADIUS, TACACS+, DMZ)	
	Dual Radio, 802.11 b/g/n/ac (Wave2 Client Mode)		nbound and Outbound Port filtering	
	Support for 10 clients, WPA2 Enterprise per radio	I	nbound and Outbound Trusted IP	
	Output power 16dBm MAC A		MAC Address Filtering	
	-		PCI compatible	
	Mode		ecure Firmware Update	
	Single SSID Support per radio Captive Portal	MANAGEMENT	Secure mobile network & asset management application available in the cloud or licensed platform in the enterprise lata center	
INPUT/OUTPUT	Configurable I/O pin on power connector • Digital Input ON Voltage: 2.7 to 36 VDC	F	leet wide firmware upgrade delivery	
	Configurable Pull-up for dry contact input	F	Router configuration and template management	
	 Digital Open Collector Output > sinking 500 mA 	F	Router staging over the air and local Ethernet connection	
	Analog Input: 0.5-36 VDC	(Over-the-air software and radio module firmware updates	
LAN (ETHERNET/USB)	DHCP Server	[Device Configuration Templates	
		(Configurable monitoring and alerting	
	IP Passthrough VLAN	F	Remote provisioning and airtime activation (where	
			applicable)	
	Host Interface Watchdog	ROUTER MANAGEMENT	ALMS	
	Host Interface Watchdog PPPoE	ROUTER MANAGEMENT	ALMS .ocal web user interface	
SERIAL	Host Interface Watchdog PPPoE TCP/UDP PAD Mode	ROUTER MANAGEMENT	ALMS .ocal web user interface AT Command Line Interface (Telnet/SSH/Serial)	
SERIAL	Host Interface Watchdog PPPoE TCP/UDP PAD Mode Modbus (ASCII, RTU, Variable)	ROUTER MANAGEMENT	LLMS .ocal web user interface AT Command Line Interface (Telnet/SSH/Serial) SMS Commands	
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SERIAL	Host Interface Watchdog PPPoE TCP/UDP PAD Mode Modbus (ASCII, RTU, Variable) PPP DNP3 Interoperability Dual Serial option (with an accessory) Network Address Translation (NAT)	ROUTER MANAGEMENT 4 4 4 5 5 6 5 6 6 6 6 7 6 6 6 7 6 6 6	LLMS .ocal web user interface AT Command Line Interface (Telnet/SSH/Serial) SMS Commands SNMP Eustom event triggers and reports	
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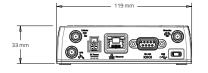
VPN	IPsec, GRE, and OpenVPN Client	ENVIRONMENTAL	Operating Temperature: -40°C to +70°C / -40°F to +158°F
	Up to 5 concurrent tunnels Split Tunnel Dead Peer Detection (DPD) FIPS 140-2 compatible		Operating Temperature (Wi-Fi variant): -30°C to +70°C / -22°F to +158°F
			Storage Temperature: -40°C to +85°C / -40°F to +185°F Humidity: 95% RH @ 60°C
APPLICATION FRAMEWORK	ALEOS Application Framework (AAF) LUA Scripting Language		Military Spec MIL-STD-810G conformance to shock, vibration, thermal shock, and humidity IP64 rated ingress protection
POWER	Input Voltage: 7 to 36 VDC LTE Idle Power: 900mW (75 mA @ 12VDC)		Safety: IECEE Certification Bodies Scheme (CB Scheme), UL 60950**
	Standby Mode Power: 53 mW (4.4 mA (@ 12 VDC) triggered		Vehicle Usage: E-Mark (UN ECE Regulation 10.04),
	on low voltage, I/O or periodic timer		ISO7637-2, SAE J1455 (Shock & Vibration)
	Low voltage disconnect to prevent battery drain		Hazardous Environments: Class 1 Div 2**
	Built-in protection against voltage transients including 5 VDC		Environmental: RoHS, REACH, WEEE
	engine cranking and +200 VDC load dump Ignition Sense with time delay shutdown Configurable features and ports to optimize power consumption	SUPPORT AND WARRANTY	Includes 1st Year AirLink Complete: • AirLink Management Service (ALMS)
			 Direct 24/7 Technical Support 3-year standard warranty; optional 2-year warranty extension
DIMENSIONS	119 mm x 33 mm x 85 mm (102 mm including wi-fi connectors)		1-day Accelerated Hardware Replacement available through participating resellers
	4.69 in x 1.34 in x 3.35 in (3.70 in including connectors) Weight: 320 g	ACCESSORIES	In the Box: DC Power Cable, and Quick Start Guide
			2000579 AC Adapter, 12VDC
			6000659 DIN Rail Mounting Brackets
			6001110 Cellular Paddle Antenna

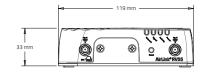
6001111 Wi-Fi 2.4/5GHz Paddle Antenna

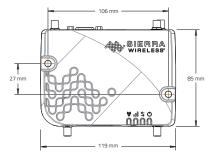
See website for more antenna options.

*For carrier specific band support please refer to the hardware user guide. ** Ambient temperatures of -30C to +60C

DIMENSIONS







About Sierra Wireless

AirLink Networking Solution - Related Products

AIRLINK NETWORK MANAGEMENT SOLUTIONS

AIRLINK MANAGEMENT SERVICE (ALMS)



- Secure, Cloud-based network and asset management
- Remotely deploy, configure, monitor and manage AirLink devices
- Carrier-grade, high availability, secure, global infrastructure

AIRLINK MANAGER / MOBILITY MANAGER (AM/AMM)



- Deployable in the enterprise data center (on-premises) or in the cloud
- Advanced, end-to-end network and asset management for both fixed and mobile networks.
- Remote, real-time configuration, control and troubleshooting of AirLink devices

AIRLINK VPN APPLIANCE

AIRLINK CONNECTION MANAGER



- VPN appliance built from the ground up for Airlink routers & gateways
- Simplify deployment and management of your VPN solution, extending the enterprise to the network edge for fixed and mobile endpoints
- Carrier agnostic ACM doesn't require fixed and/or public IP
- Compatible with FIPS 140-2, and always-onVPN capability

Sierra Wireless (NASDAQ: SWIR) (TSX: SW) is an IoT pioneer, empowering businesses and industries to transform and thrive in the connected economy. Customers Start with Sierra because we offer a device-to-cloud solution, comprised of embedded and networking solutions seamlessly integrated with our IoT services. OEMs and enterprises worldwide rely on our expertise in delivering fully integrated solutions to reduce complexity, turn data into intelligence and get their connected products and services to market faster. Sierra Wireless has more than 1,400 employees globally and operates R&D centers in North America, Europe and Asia. For more information, visit www.sierrawireless.com.

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SIERR WIRELESS

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