

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® RV50X

## Ultra Low Power 4G Router

The AirLink® RV50X delivers LTE broadband connectivity for critical remote fixed assets and industrial IoT infrastructure. With low power consumption, the RV50X can run on battery or solar power.

- Single Serial

GNSS

IP64 Rated

AirLink Complete
- 4G Cat-6

1x Ethernet (1 Gbps)



### AirLink® RV50X – Router Specifications

	North America & EMEA	Asia Pacific
CELLULAR		
Peak D/L	Cat 6	Cat 6
Peak D/L	Up to 300 Mbps	Up to 300 Mbps
Peak U/L	Up to 50 Mbps	Up to 50 Mbps
4G LTE		
Frequency Bands*	2100(B1), 1900(B2), 1800(B3), AWS(B4), 850(B5), 2600(B7), 900(B8), 700(B12), 700(B13), 800(B20), 1900(B25), 850(B26), 700(B29), TDD B41	2100(B1), 1800(B3), 850(B5), 2600(B7), 900(B8), 850(B18), 850(B19), 1500(B21), 700(B28), TDD 38, TDD 39, TDD 40, TDD 41
3G WCDMA/HSPA+		
Frequency Bands*	2100(B1), 1900(B2), 1800(B3), AWS(B4), 850(B5), 900(B8)	2100(B1), 850(B5), 800(B6), 900(B8), 1700(B9), 850(B19)
3G TD-SCDMA		
Frequency Bands*	B39	

**Approvals**

<b>Regulatory</b>	FCC, IC, PTCRB, R&TTE, GCF, CE	RCM, JRF/JPA, Anatel
<b>Carrier</b>	Verizon, AT&T, T-Mobile, Southern Linc, US Cellular, Rogers, TELUS, Bell, Anterix	Telstra

**Part Numbers**

<b>Part Numbers</b>	1103052	1103045 1103973 (China)
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*\*For carrier specific band support please refer to the hardware user guide*

**HOST INTERFACES**

10/100/1000 Ethernet (RJ45)  
RS-232 serial port (DB-9)  
USB 2.0 Micro-B Connector  
3 SMA antenna connectors (primary, diversity, GPS)  
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

**SATELLITE NAVIGATION (GNSS)**

12 Channel GPS and GLONASS Receiver  
Acquisition Time: 1 s Hot Start  
Accuracy: <2 m (50%), <5 m (90%)  
Tracking Sensitivity: -145 dBm  
Reports: NMEA 0183 V3.0, TAIP, RAP, XORA  
Multiple Redundant Servers  
Reliable Store and Forward

**ENVIRONMENTAL**

<b>Operating Temperature</b>	-40°C to +70°C / -40°F to +158°F
<b>Storage Temperature</b>	-40°C to +85°C / -40°F to +185°F
<b>Humidity</b>	90% 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**

**LTE 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)  
 Port Forwarding  
 Host Port Routing  
 NEMO/DMNR  
 VRRP  
 Reliable Static Route  
 Dynamic DNS  
 Policy Routing  
 Verizon ANTM  
 IPv6 Gateway

**VPN\*\*\***

IPsec, GRE, and OpenVPN Client  
 Up to 5 concurrent tunnels  
 Split Tunnel  
 Dead Peer Detection (DPD)  
 Multiple Subnets

**INDUSTRY CERTIFICATIONS****Safety**

IECEE Certification Bodies Scheme (CB Scheme), UL 60950

**Vehicle Usage**

E-Mark (UN ECE Regulation 10.04), ISO7637-2, SAE J1455 (Shock & Vibration)

**Environmental**

RoHS, REACH, WEEE  
**Hazardous Environments:** Class 1 Div 2

**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)**

DNS, DNS Proxy  
 DHCP Server  
 IP Passthrough  
 VLAN  
 Host Interface Watchdog  
 PPPoE

**SERIAL**

TCP/U DP PAD Mode  
 Modbus (ASCII, RTU, Variable)  
 PPP  
 DNP3 Interoperability

**APPLICATION FRAMEWORK**

ALEOS Application Framework (AAF)  
 LUA Scripting Language  
 Eclipse-based IDE  
 Integrated with AirVantage®  
 Dual-Core Processing

**NETWORK MANAGEMENT**

Secure network management applications 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**

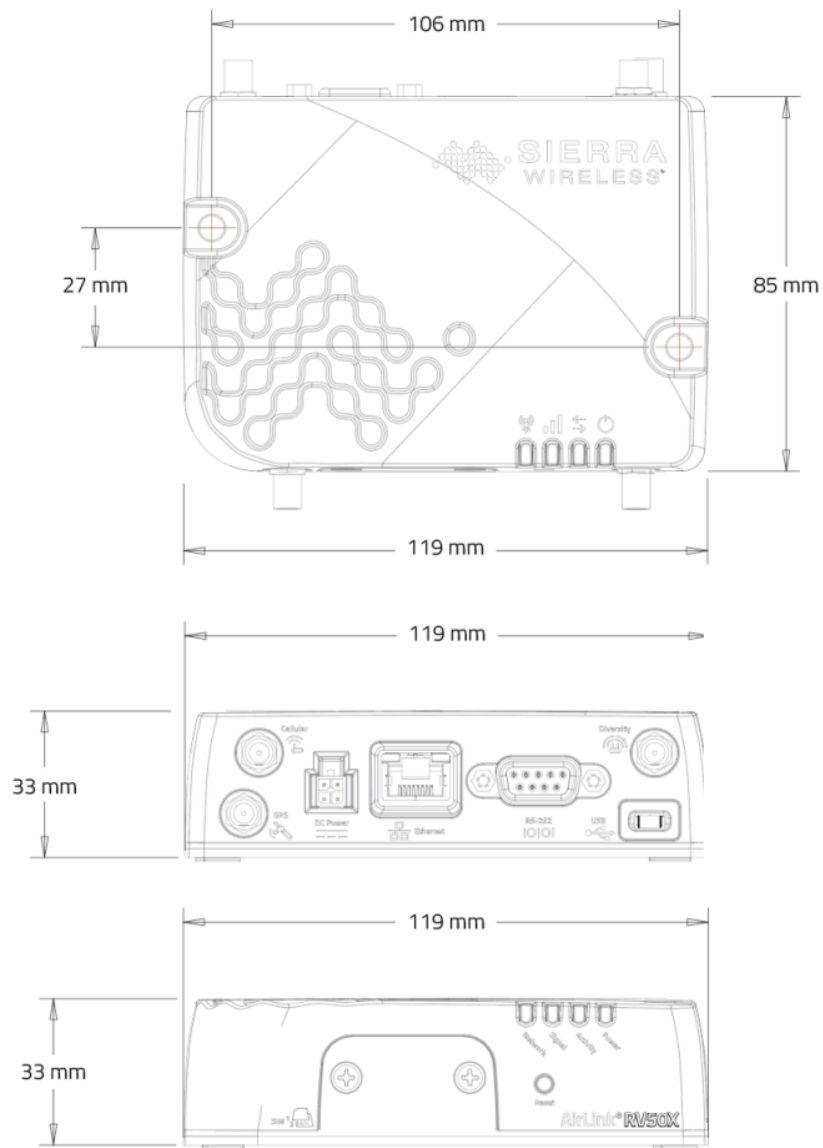
Custom event triggers and reports  
 Configurable interface, no programming  
**Event Types:** Digital Input, Network Parameters, Data Usage, Timer, Power, Device Temperature and Voltage  
**Report Types:** RAP, SMS, Email, SNMP Trap, TCP (Binary, XML, CSV)  
**Event Actions:** Drive Relay Output

**ACCESSORIES**

<b>In The Box</b>	RV50X, DC Power Cable and Quick Start Guide
<b>Other Accessories (Sold Separately)</b>	2000579 AC Adapter, 12VDC 6000659 DIN Rail Bracket  For antenna options visit: <a href="https://www.sierrawireless.com/antennas">sierrawireless.com/antennas</a>

**DIMENSIONS**

<b>AirLink RV50X – Main Body</b>	119 mm x 34 mm x 85 mm (94 mm including connectors) 4.69 in x 1.34 in x 3.35 in (3.70 in including connectors)
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