

Sierra Wireless RV50X

Sierra Wireless AirLink RV50X Rugged Industrial LTE CAT6 Router User Manual

Model: RV50X | Part Number: 1103052

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of the Sierra Wireless AirLink RV50X Rugged Industrial LTE CAT6 Router. The RV50X is designed to provide robust LTE broadband connectivity for critical remote fixed assets and industrial IoT infrastructure, offering low power consumption suitable for battery or solar-powered deployments.

Key features include:

- LTE CAT6 connectivity with up to 300 Mbps downlink and 50 Mbps uplink speeds.
- Rugged design for harsh environments.
- Ethernet and serial connections.
- Integrated GNSS (Global Navigation Satellite System).
- Optimized for low power consumption.

2. PACKAGE CONTENTS

Verify that all items are present in your package:

- Sierra Wireless AirLink RV50X Router
- DC Power Cable
- Documentation (Quick Start Guide, Safety and Regulatory Information)

Note: Antennas and other accessories may be sold separately depending on the specific product bundle.

3. PHYSICAL FEATURES

3.1 Front Panel Overview

The front panel of the RV50X router features LED indicators for status monitoring, a SIM card slot, and a reset button.



Image 1: Front view of the Sierra Wireless AirLink RV50X router. Visible are the Sierra Wireless logo, AirLink RV50 branding, a SIM card slot labeled '1', and four LED indicators for Network, Signal, Activity, and Power, along with a Reset button.

- **SIM Card Slot:** Insert your activated SIM card here.
- **LED Indicators:** Provide visual feedback on the router's operational status.
- **Reset Button:** Used to restart the router or restore factory default settings.

3.2 Rear Panel Overview

The rear panel provides various ports for power, network connectivity, and serial communication.



Image 2: Rear view of the Sierra Wireless AirLink RV50X router. From left to right, ports include: two Cellular antenna connectors, a GPS antenna connector, a DC Power input, an Ethernet port, an RS-232 serial port, and a USB port. A Diversity antenna connector is also visible on the far right.

- **Cellular Antenna Connectors:** Connect main and diversity cellular antennas.
- **GPS Antenna Connector:** Connect a GPS antenna for location services.
- **DC Power Input:** Connect the provided DC power cable.
- **Ethernet Port:** Connect to a local area network (LAN) device or switch.
- **RS-232 Port:** For serial communication with industrial equipment.
- **USB Port:** For potential future use or specific configurations.

4. SETUP

Follow these steps to set up your AirLink RV50X router:

4.1 SIM Card Installation

1. Ensure the router is powered off.
2. Locate the SIM card slot on the front panel.

3. Insert an activated 2FF (Mini-SIM) SIM card into the slot with the gold contacts facing down and the notched corner oriented correctly. Push until it clicks into place.
4. To remove, push the SIM card in again until it springs out.

4.2 Antenna Connection

1. Connect the main cellular antenna to the port labeled "Cellular".
2. Connect the diversity cellular antenna to the port labeled "Diversity".
3. Connect the GPS antenna to the port labeled "GPS" (if using GNSS features).
4. Ensure all antenna connections are finger-tight.

4.3 Power Connection

1. Connect the provided DC power cable to the "DC Power" input on the rear panel.
2. Connect the other end of the DC power cable to a compatible power source (e.g., 12V-24V DC supply).
3. The router will power on automatically. Observe the Power LED on the front panel.

4.4 Network Connection

1. Connect an Ethernet cable from your computer or local network device to the "Ethernet" port on the rear panel of the RV50X.
2. For serial communication, connect a serial cable to the "RS-232" port and to your serial device.

5. OPERATING INSTRUCTIONS

5.1 LED Indicators

Monitor the front panel LEDs for operational status:

- **Power LED:**
 - Solid Green: Router is powered on and operating normally.
 - Off: Router is powered off.
- **Network LED:**
 - Solid Green: Connected to the cellular network.
 - Flashing Green: Attempting to connect to the cellular network.
 - Off: Not connected to the cellular network.
- **Signal LED:**
 - Indicates cellular signal strength (e.g., more lights for stronger signal). Refer to the full product documentation for detailed signal strength interpretation.
- **Activity LED:**
 - Flashing: Data activity over the cellular connection.
 - Off: No data activity.

5.2 Initial Configuration

To access the router's web-based management interface for initial configuration:

1. Ensure your computer is connected to the RV50X via the Ethernet port.

2. Open a web browser and enter the router's default IP address (typically 192.168.1.1 or 192.168.13.31). Refer to the Quick Start Guide or product documentation for the exact default IP.
3. Enter the default username and password (usually admin for both, or as specified in the documentation).
4. Follow the on-screen prompts to configure your cellular connection, network settings, and security preferences.
5. It is highly recommended to change the default administrator password immediately after initial login.

6. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your RV50X router:

- **Firmware Updates:** Periodically check the Sierra Wireless support website for firmware updates. Keeping the firmware current ensures access to the latest features, security patches, and performance improvements.
- **Cleaning:** Use a soft, dry cloth to clean the exterior of the router. Do not use liquid cleaners or aerosols.
- **Environmental Conditions:** Ensure the router operates within its specified temperature and humidity ranges. Avoid exposing the device to excessive dust, moisture, or direct sunlight.
- **Cable Management:** Ensure all cables are securely connected and not under strain.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your RV50X router.

Problem	Possible Cause	Solution
No Power (Power LED Off)	• Power cable not connected. • Power source failure. • Faulty power cable.	• Verify DC power cable is securely connected to the router and power source. • Check the power source for functionality. • Try a different compatible DC power cable if available.
No Cellular Network Connectivity (Network LED Off/Flashing)	• SIM card not installed or not activated. • Antennas not connected or faulty. • No cellular coverage in the area. • Incorrect APN settings.	• Ensure SIM card is correctly installed and activated with your carrier. • Verify cellular antennas are securely connected. • Relocate the router to an area with better cellular reception. • Check and configure APN settings via the web interface. • Perform a soft reset using the reset button.

Problem	Possible Cause	Solution
Poor Signal Strength (Signal LED low)	• Suboptimal antenna placement. • Obstructions blocking signal. • Weak cellular coverage.	• Adjust antenna position or orientation. • Move the router to a higher location or closer to a window. • Consider using higher-gain external antennas.
Cannot Access Web Interface	• Incorrect IP address. • Ethernet cable issue. • Firewall blocking access.	• Verify the router's IP address. • Check Ethernet cable connection. • Temporarily disable computer firewall. • Try a different web browser.

For more advanced troubleshooting, refer to the comprehensive *AirLink RV50X User Guide* available on the *Sierra Wireless support website*.

8. SPECIFICATIONS

Feature	Detail
Model	AirLink RV50X
Part Number	1103052
Connectivity Technology	LTE CAT6 (4G), HSPA/HSPA+ (3G)
Data Transfer Rate	Up to 300 Mbps Downlink, 50 Mbps Uplink
LAN Port Bandwidth	300 Mbps
Interfaces	Ethernet, RS-232, USB, SIM Slot
Antenna Connectors	Cellular (Main, Diversity), GPS
GNSS	Integrated GPS
Power Input	DC Power (via included cable)
Dimensions (Package)	9.3 x 7.8 x 2.6 inches
Item Weight	1.5 pounds
Regulatory Certifications	FCC, IC, PTCRB, R&TTE, GCF, CE, IECEE CB Scheme, UL 60950, E-Mark (UN ECE Regulation 10.04), ISO7637-2, SAE J1455 (Shock & Vibration), Class 1 Div (Hazardous Environments)
Supported Frequencies (4G LTE)	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
Supported Frequencies (3G HSPA/HSPA+)	2100(B1), 1900(B2), 1800(B3), AWS(B4), 850(B5), 900(B8)

9. WARRANTY AND SUPPORT

The Sierra Wireless AirLink RV50X includes access to **AirLink Complete**, a comprehensive subscription service designed to ensure optimal performance and longevity of your mission-critical infrastructure.

- **AirLink Complete:** This service combines best-in-class device management software (AirLink Management Service - ALMS), industry-leading technical support, and an extended warranty option.
- **Initial Coverage:** AirLink Complete is included free for 1 year with the purchase of a new RV50X.
- **Technical Support:** For technical assistance, troubleshooting, or warranty claims, please visit the official Sierra Wireless support website or contact their customer service.

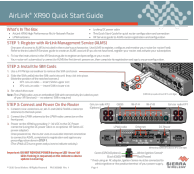
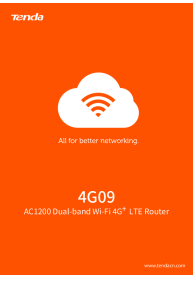
For detailed warranty terms and support resources, please refer to the official Sierra Wireless documentation or their website: www.sierrawireless.com/support

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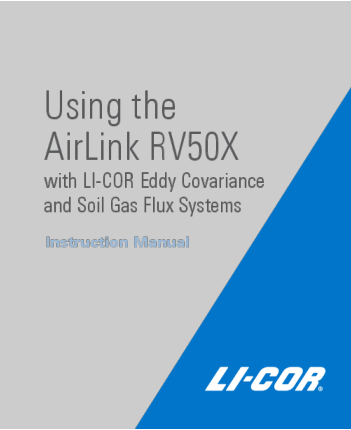
This manual is for informational purposes only. Specifications are subject to change without notice.

Related Documents - RV50X

	Sierra Wireless AirLink XR80 Technical Specifications and Features Detailed technical specifications, features, and support information for the Sierra Wireless AirLink XR80 5G performance series router, including cellular, Wi-Fi, security, and connectivity options.
	Sierra Wireless AirLink XR80 Quick Start Guide A quick start guide for configuring and connecting the Sierra Wireless AirLink XR80 router, including steps for SIM card installation, powering on, and initial setup via ALMS or local interface.
	Sierra Wireless AirLink LX40 LTE Router Hardware User Guide Comprehensive hardware user guide for the Sierra Wireless AirLink LX40 LTE Router, detailing installation, configuration, specifications, safety guidelines, and support resources for commercial and enterprise applications.

	AirLink XR90 Quick Start Guide - Sierra Wireless Quick start guide for the Sierra Wireless AirLink XR90 High Performance Multi-Network Router, covering initial setup, SIM card installation, power connection, and configuration via AirLink Management Service (ALMS) or local web interface.
	Guida Utente TP-Link TL-MR6400 Router 4G LTE Guida completa per il router TP-Link TL-MR6400 4G LTE, che copre installazione, configurazione di rete, sicurezza, gestione e funzionalità avanzate per ottimizzare la tua esperienza di connessione.
	Tenda 4G09 AC1200 Dual-band Wi-Fi 4G+ LTE Router High-Speed Wireless Connectivity Explore the Tenda 4G09, an AC1200 Dual-band Wi-Fi 4G+ LTE Router that provides high-speed internet access via a SIM card. Key features include 4G+ CAT6 technology for faster speeds, dual-band Wi-Fi, Gigabit Ethernet ports, and enhanced signal coverage for reliable connectivity in any location.

Documents - Sierra Wireless – RV50X



[\[pdf\]](#) User Manual Quick Start Guide Instructions Documentation Guide Warranty

LI COR Cellular Communication Sierra Wireless AirLink Instructions for using the LS200 and Stride Ethernet Switch Eddy Covariance Flux Modem Router Inc Using RV50X Biosciences system components Overview of An Quick Start Guide is included in device Full documentation avail 2 Click Manual Controls button 3 Set IP Address Netmask Gateway ○ 192 168 13 202 EC 17122 Rev3 licor documents i8pb9t0f0521e5fv26ec07postsd2sgp

Using the AirLink **RV50X** with LI-COR Eddy Covariance and Soil Gas Flux Systems Instruction Manual Using the AirLink **RV50X** with LI-COR Eddy Covariance and Soil Gas Flux Systems LI-COR Biosciences 4647 Superior Street Lincoln, Nebraska 68504 Phone: 1-402-467-3576 Toll free: 800-447-3576 U.S. and C...

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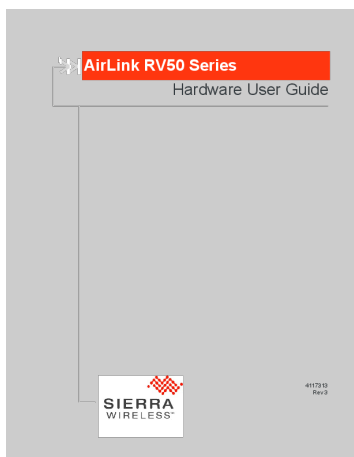
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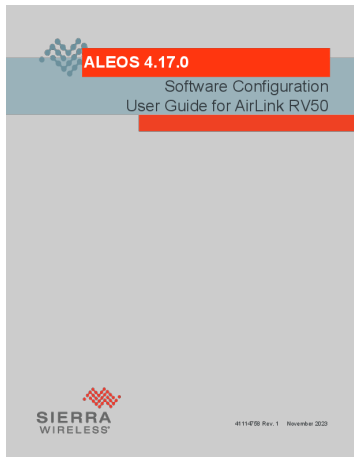




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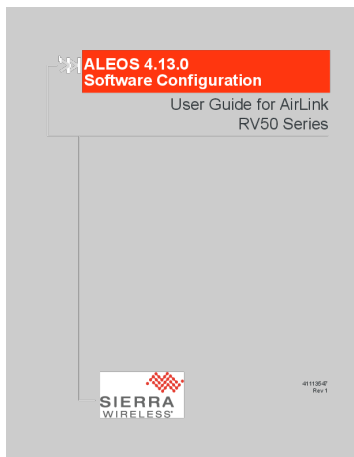
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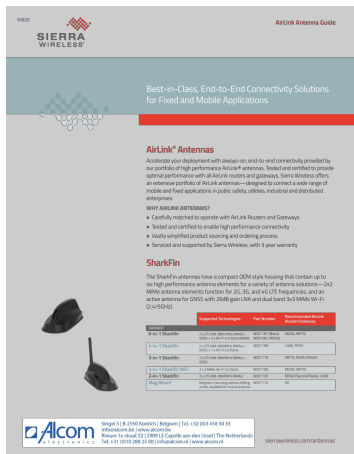
41114758 ALEOS 4 17 Software Configuration Guide for RV50 Sierra Wireless Manual engelskSierra
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 ALEOS 4.17.0 Software Configuration User Guide for AirLink RV50 41114758 Rev. 1 November 2023 ALEO ... r versions of ALEOS. Refer to the following table for the details. ALEOS Availability LX40/60 RV50 **RV50X** RV55 MP70 Notes Version 4.15.0 Dec. 2021 Feature release 4.15.1 Dec. 2021 AT T 3G ...

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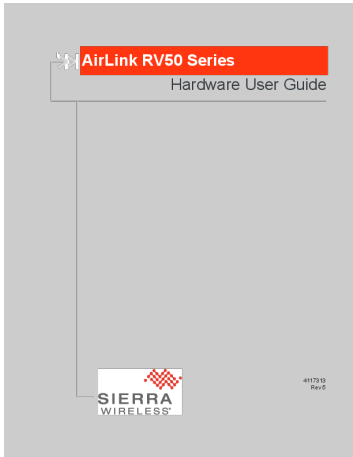
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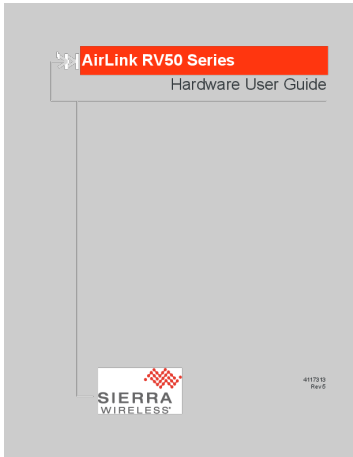


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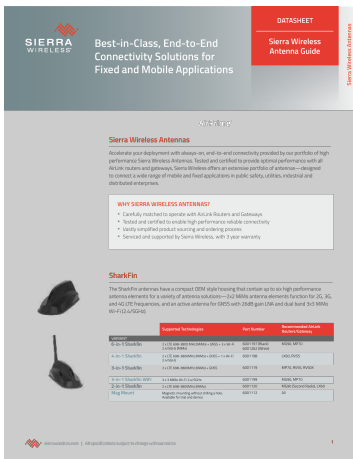


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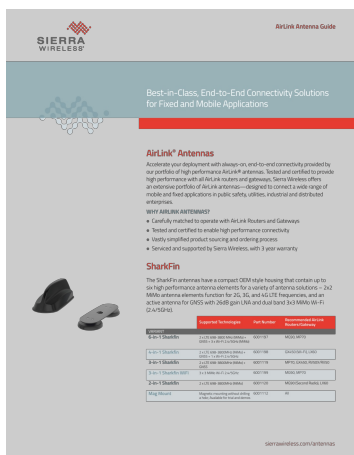
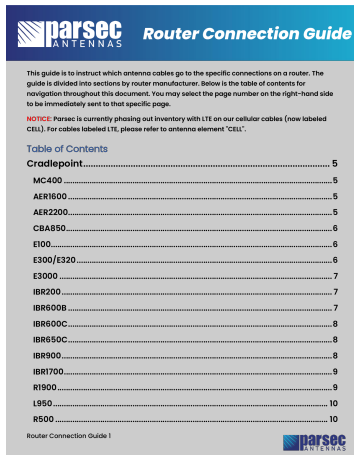


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Parsec Router Connection Guide: Antenna Cable Connections

A comprehensive guide from Parsec Antennas detailing antenna cable connections for various router models from manufacturers like Cradlepoint, Digi, NETGEAR, Peplink, and Sierra Wireless.
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Sierra Wireless AirLink Antennas: Connectivity Solutions Guide

A comprehensive guide to Sierra Wireless AirLink antennas, detailing their features, supported technologies, part numbers, and compatibility with AirLink routers and gateways for fixed and mobile applications.
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Performance Series Routers AirLink **RV50X** Compact, Rugged Low Power LTE-A Router for Industrial IoT, SCADA and Metering Benefits Connect to devices in remote locations and harsh environments Lower connectivity costs compared to fiber, landlines or private network Deploy in off-grid locations usi...

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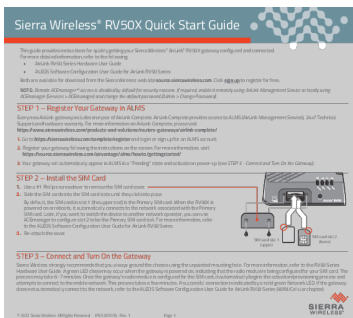


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Sierra Wireless **RV50X** Quick Start Guide This guide provides instructions for quickly getting your Sierra Wireless AirLink **RV50X** gateway configured and connected. For more detailed information, refer to the following: AirLink RV50 Series Hardware User Guide ALEOS Software Configuration User Guide ...

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ALEOS 4.15.3 Software Configuration User Guide for AirLink RV50 41114366 Rev. 1 April 2022 ALEOS 4 ... r. Figure 10-9: ACEmanager: RV50 Events Reporting Actions Data Group Figure 10-10: ACEmanager: **RV50X** Events Reporting Actions Data Group The reports attributes are: Digital and Analog I/O Op...

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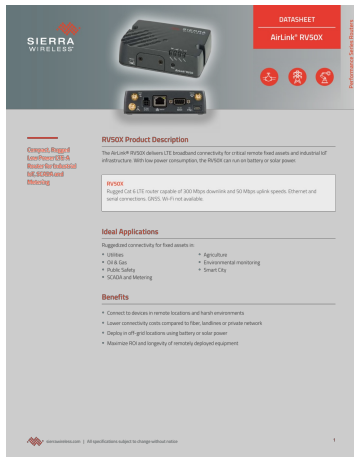


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Download Data Sheet Sierra Wireless AirLink RV50X Industrial LTE Gateway DataSheet Feb2022 F m2mconnectivity au 2022 04 |||

Performance Series Routers DATASHEET AirLink **RV50X** Compact, Rugged Low Power LTE-A Router for Industrial IoT, SCADA and Metering **RV50X** Product Description The AirLink **RV50X** delivers LTE broadband connectivity for critical remote fixed assets and industrial IoT infrastructure. With low power consu... lang:en score:33 filesize: 1.28 M page_count: 4 document date: 2022-03-08



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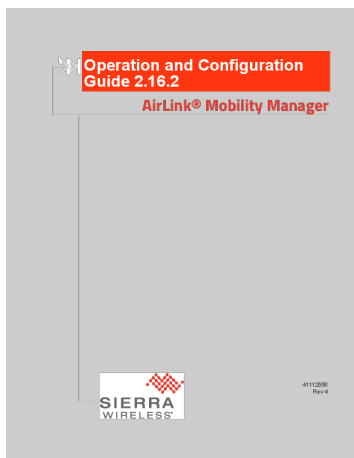
Performance Series Routers TECHNICAL SPECIFICATIONS AirLink **RV50X** North America EMEA Asia Pacific LTE CATEGORY Peak D/L Peak U/L 4G LTE Frequency Bands* LTE Cat 6 Up to 300 Mbps Up to 50 Mbps 2100 B1 , 1900 B2 , 1800 B3 , AWS B4 , 850 B5 , 2600 B7 , 900 B8 , 700 B12 , 2100 B1 , 1800 B3 , ...

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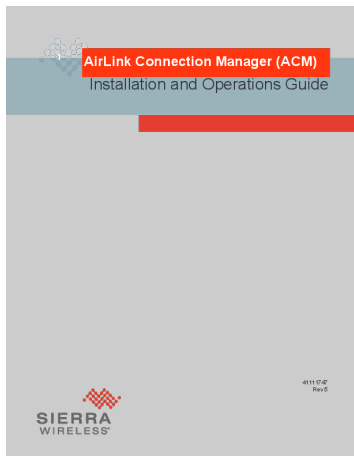
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Powertec Wireless Technology ABN: 42 082 948 463 PO Box 1034, Ashmore City
Queensland, Australia, 4214 sales [powertec.com.au](#) 1300 769 378 Sierra Wireless
AirLink **RV50X** Industrial 4G LTE Modem SKU: M2M-SW-00001 MPN: 1103045
Description The AirLink **RV50X** is the industry s lowest power and most rugged...
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[Sierra Wireless AirLink® Mobility Manager: Operation and Configuration Guide 2.16.2](#)

Comprehensive guide to operating and configuring the Sierra Wireless AirLink® Mobility Manager (AMM) platform, detailing fleet network device management, setup, monitoring, software updates, reporting, and administration for ALEOS and MG gateways.

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AirLink Connection Manager ACM Installation and Operations Guide 41111747 Rev 5
ACM Installation3 or later MGOS 4.3 or later oMG500 / oMG2000 MGOS 3.15.x
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4.12 or later ES450, GX450 ALEOS 4.9.x ALEOS 4.9.x NCP S...

lang:en **score:33** filesize: 1.58 M page_count: 0 document date: 0000-00-00



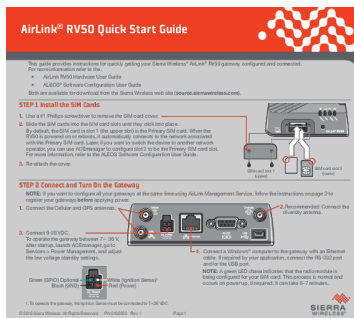
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02/2022 AirLink Antenna Guide Best-in-Class, End-to-End Connectivity Solutions for Fixed and Mobil ... 1 x Wi-Fi 2.4/5GHz 6001198 LX60, RV55 2 x LTE 698-3800MHz MiMo GNSS 6001119 MP70, RV55, **RV50X** 3 x 3 MiMo Wi-Fi 2.4/5GHz 6001199 2 x LTE 698-3800MHz MiMo 6001120 Magnetic mounting wi...

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AirLink RV50 Quick Start Guide This guide provides instructions for quickly getting your Sierra Wireless AirLink RV50 gateway configured and connected. For more information refer to the: AirLink RV50 Hardware User Guide ALEOS Software Configuration User Guide Both are available for download from ...

lang:en score:32 filesize: 148.97 K page_count: 2 document date: 2016-04-12



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Artikeldatenblatt Sierra Wireless RV50X Industrial LTE Router A bei Mercateo günstig kaufen 140915 v

2546 static mercateo c5 23b4bb8dc9374477b7ade7a13733c61f |||

AirLink RV50 Datasheet FEATURES LTE performance at 2G power consumption less than 1W in idle mode ... third party server platforms Application Framework AAF offers real-time onboard data processing; **RV50X** s dualcore processor provides added performance for advanced edge computing applications. GPS...

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MIWI350 Installation and Operations Guide FD-610 Version 5.0 December 2022

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lang:en score:31 filesize: 76.26 M page_count: 86 document date: 2022-12-16



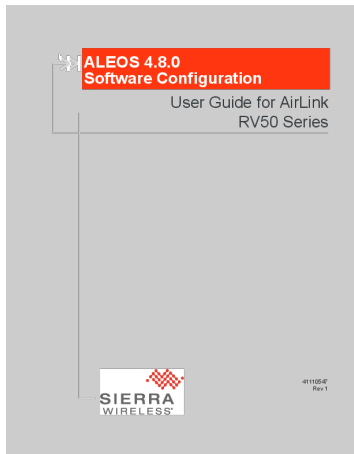
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rv50 static qdg RV50 X Quick Deploy Guide Static Campbell Scientific Technical Communications For Public IP Addresses 1313 M3dem industrial 4G LTE gateway telefonía móvil s campbellsci documents eu manuals |||

Sierra Wireless Airlink 4G LTE Cellular Modem For Public Static IP Addresses Part Number #35781 Revision: 04/2021 CSL I.D - 1313 www.campbellsci.eu/rv50x 1.

Introduction NOTE: This Quick Deploy Guide is a general reference to give the installer an overview of the steps required to make this system ...

lang:en **score:31** filesize: 870.22 K page_count: 4 document date: 2021-04-08

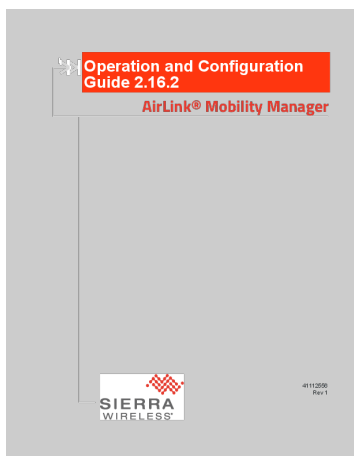


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ALEOS 4.8.0 Software Configuration User Guide for AirLink RV50 Series 41110547 Rev 1 Important No ... -RV50 490
Setting for Band--**RV50X** 497 Ethernet Ports

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[Sierra Wireless AirLink Mobility Manager Operation and Configuration Guide 2.16.2](#)

Comprehensive guide to operating and configuring the Sierra Wireless AirLink Mobility Manager (AMM) software, covering installation, features, network management, reporting, and troubleshooting for fleet management.

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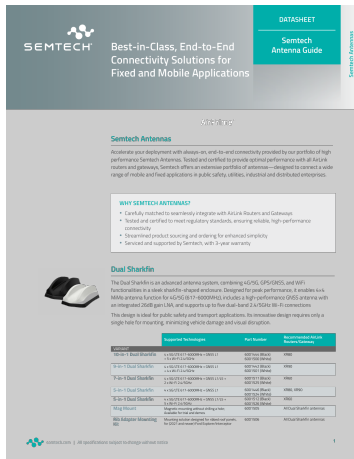


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Performance Series Routers AirLink **RV50X** Compact, Rugged Low Power LTE-A Router for Industrial IoT, SCADA and Metering Benefits Connect to devices in remote locations and harsh environments Lower connectivity costs compared to fiber, landlines or private network Deploy in off-grid locations usi...

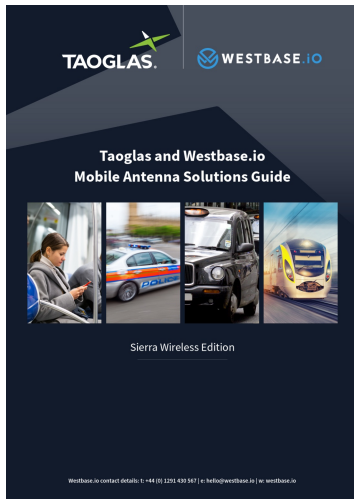
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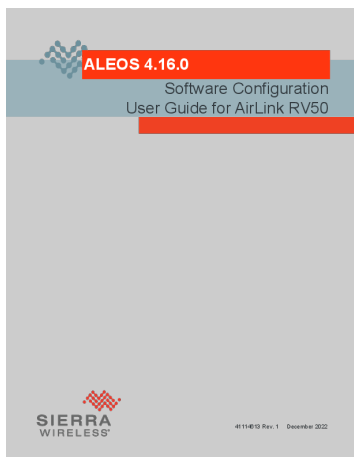
Semtech Antennas Best-in-Class, End-to-End Connectivity Solutions for Fixed and Mobile Applications ... 1262 White 6001530 6001119 Recommended AirLink Routers/Gateway MG90, MP70 LX60, RV55 MP70, RV55, **RV50X** 3-in-1 Sharkfin WiFi 2-in-1 Sharkfin Mag Mount 3 x 3 MiMo Wi-Fi 2.4/5GHz 2 x LTE 698-3800MHz...
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Westbase.io contact d ... a connector mount antenna TG.10.0113 Triton 4G terminal mount hinged SMA M antenna Image RV55 **RV50X** LX40 LX60 5G/4G Magnetic Thru Hole Adhesive Mount TG.55.8113 5G/4G Terminal Mount Mon...
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ALEOS 4.16.0 Software Configuration User Guide for AirLink RV50 41114613 Rev. 1 December 2022 ALEO ... r versions of ALEOS. Refer to the following table for the details. ALEOS Availability LX40/60 RV50 **RV50X** RV55 MP70 Notes Version 4.15.0 Dec. 2021 Feature release 4.15.1 Dec. 2021 AT T 3G ...
lang:en score:30 filesize: 27.51 M page_count: 574 document date: 2022-12-15



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Applications AirLink Antenna Guide 210624 F June 30 2 1 linkwave co uk sites default files |||

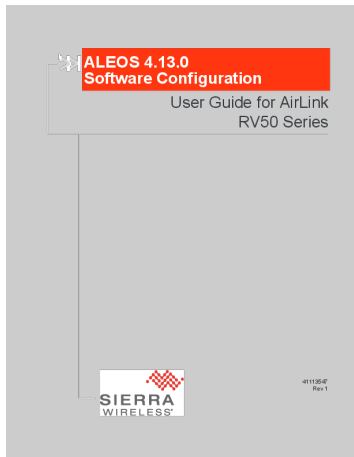
AirLink Antenna Guide Best-in-Class, End-to-End Connectivity Solutions for Fixed and

Mobile Applica ... 1 x Wi-Fi 2.4/5GHz 6001198 LX60, RV55 2 x LTE 698-3800MHz

MiMo GNSS 6001119 MP70, RV55, **RV50X** 3 x 3 MiMo Wi-Fi 2.4/5GHz 6001199 2 x

LTE 698-3800MHz MiMo 6001120 Magnetic mounting wi...

lang:en score:30 filesize: 487 K page_count: 4 document date: 2022-03-09



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41113547 ALEOS 4 13 0 Software Configuration User Guide for AirLink RV50 r1 Sierra Wireless product

are used in a normal manner with well constructed network the Note This user guide is intended www

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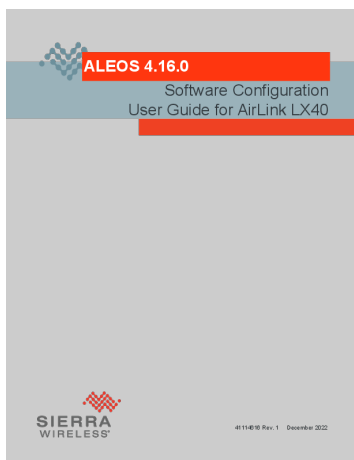
ALEOS 4.13.0 Software Configuration User Guide for AirLink RV50 Series 41113547

Rev 1 ALEOS 4.13.0 ... r. Figure 10-9: ACEmanager: RV50 Events Reporting Actions

Data Group Figure 10-10: ACEmanager: **RV50X** Events Reporting Actions Data

Group The reports attributes are: Digital and Analog I/O Op...

lang:en score:30 filesize: 28.25 M page_count: 542 document date: 2019-12-02



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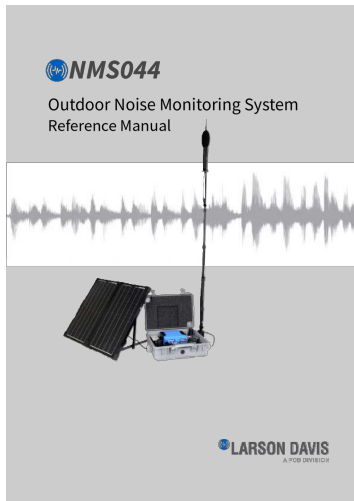
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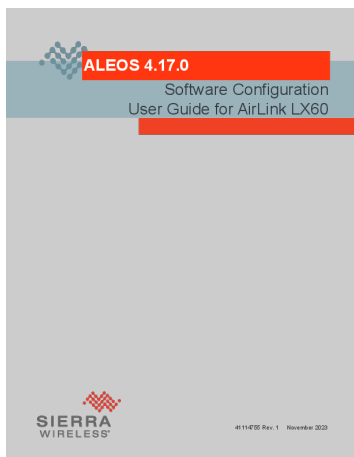
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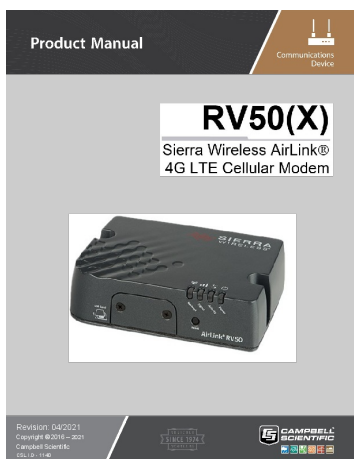
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SoundAdvisorTM Model NMS044 R ... plug kit # -E: EMEA modem, PSA039 with Int I
plug kit # -A: APAC modem, PSA039 with Int I plug 3. **RV50X** cellular gateway with
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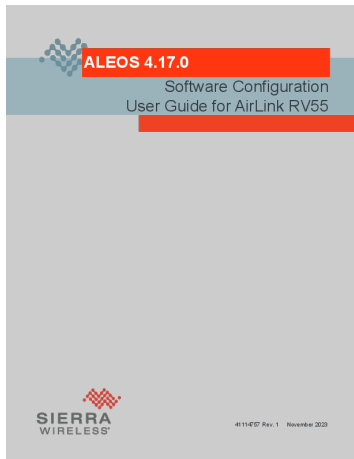
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MP70 AirLink RV55 AirLink **RV50X** AirLink LX40 LTB Series LLP Series MaxFin
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lang:en score:28 filesize: 1.19 M page_count: 9 document date: 2021-11-04

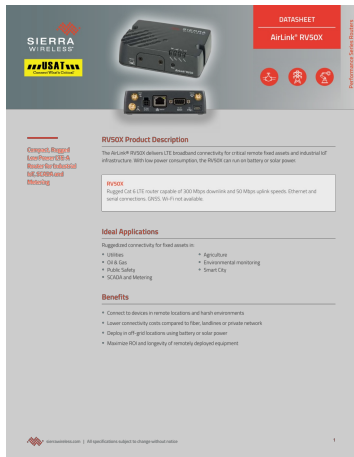


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AirLink® RV50X USATusatcorp datasheets AirLink Datasheet usatcorp |||

Performance Series Routers DATASHEET AirLink **RV50X** Compact, Rugged Low
Power LTE-A Router for Industrial IoT, SCADA and Metering **RV50X** Product
Description The AirLink **RV50X** delivers LTE broadband connectivity for critical
remote fixed assets and industrial IoT infrastructure. With low power consu...

lang:en score:28 filesize: 760.87 K page_count: 4 document date: 2022-03-23

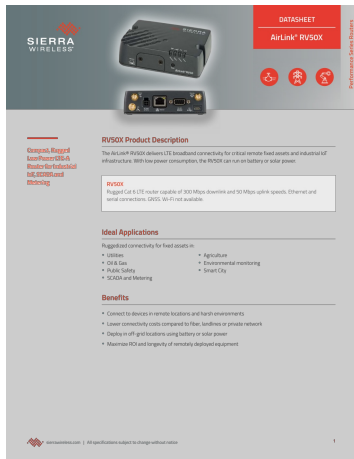


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SoundAdvisor™ Model NMS045 Permanent Noise Monitoring System Reference
Manual Larson Davis SoundA2-3 2.5 Preparing
Cellular Service for the **RV50X**

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Performance Series Routers DATASHEET AirLink **RV50X** Compact, Rugged Low Power LTE-A Router for Industrial IoT, SCADA and Metering **RV50X** Product Description The AirLink **RV50X** delivers LTE broadband connectivity for critical remote fixed assets and industrial IoT infrastructure. With low power consu...
lang:en score:28 filesize: 721.33 K page_count: 4 document date: 2022-03-25