LDARC FM900

LDARC X-BOSS FM900 2.4GHz FASST Receiver User Manual

1. Introduction

This manual provides essential information for the proper setup, operation, and maintenance of your LDARC X-BOSS FM900 2.4GHz FASST Receiver. Please read this manual thoroughly before using the product to ensure safe and efficient operation.

2. Product Overview

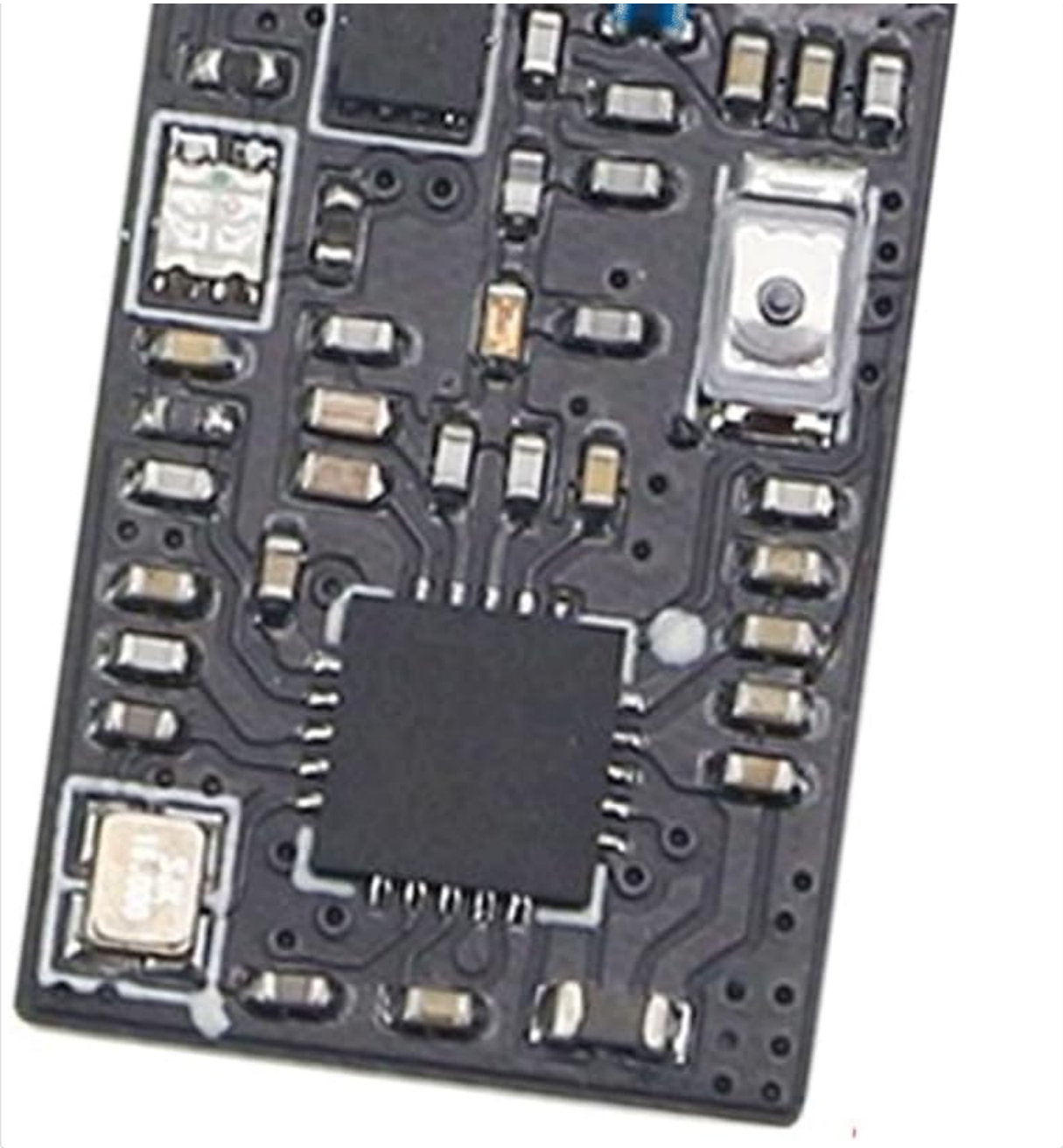

Image: The LDARC X-BOSS FM900 receiver, a compact circuit board featuring surface-mount components, an integrated antenna, and clearly labeled 'FM900' branding. This image illustrates the physical design and component layout of the receiver.

3. Features

- Offers great reliability, stable signal link, precision antenna, and high sensitivity.
- Compact and lightweight design for various applications.
- Integrated LNA (Low Noise Amplifier) for enhanced signal reception.
- RSSI (Received Signal Strength Indicator) output for real-time signal monitoring.

4. Specifications

Specification	Detail

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Item	FM900 Receiver
Weight	1.2g
Dimensions	11.5mm x 21mm
Voltage	4-6V
Working Range	>900m (air distance without electromagnetic interference)
Protocol	FASST
Output 1	LNA
Output 2	RSSI
Supported Transmitters	T8FG, T14SG, T16SZ, T18SZ, T18MZ, T32MZ TX
Real-Time RSSI Compatibility	F3, F4, F7, etc. flight controllers

5. Package Contents

- 1x LDARC X-BOSS FM900 Receiver

6. Setup

6.1. Installation

Carefully connect the receiver to your flight controller or power source, ensuring correct polarity and signal connections. Mount the receiver securely in your model, away from sources of electrical interference. Position the antenna for optimal signal reception, avoiding obstructions.

6.2. Binding Procedure

To establish communication between your transmitter and the FM900 receiver, follow these general binding steps:

1. Power on your transmitter and select the FASST protocol.
2. Place your transmitter in binding mode (refer to your transmitter's manual for specific instructions).
3. Apply power to the FM900 receiver. The receiver's LED indicator should begin to flash, indicating it is ready for binding.
4. Once the binding process is complete, the receiver's LED will typically turn solid green, indicating a successful connection.
5. Power cycle both the transmitter and receiver to confirm the binding is retained.

7. Operating Instructions

After successful binding and installation, ensure your transmitter and receiver are powered on before operating your model. Always perform a range check and verify all control surfaces respond correctly before flight.

Monitor the RSSI output on your flight controller or OSD (On-Screen Display) to ensure a strong signal link during operation.

8. Maintenance

- Keep the receiver clean and free from dust, dirt, and moisture.
- Regularly inspect antenna connections for damage or loose contacts.
- Avoid exposing the receiver to extreme temperatures or direct sunlight for prolonged periods.
- Ensure proper ventilation around the receiver during operation.

9. Troubleshooting

- **No Signal/Loss of Link:** Re-check binding procedure. Ensure transmitter and receiver are powered on. Verify antenna connection and placement. Check for potential interference sources.
- **Intermittent Signal:** Inspect antenna for damage. Ensure receiver is not too close to high-current wires or other electronic components that may cause interference.
- **Receiver Not Powering On:** Verify power connections and voltage supply (4-6V). Check for shorts or incorrect wiring.
- **Incorrect Control Response:** Confirm correct channel mapping in your flight controller or model setup. Re-bind the receiver if necessary.

10. Warranty and Support Information

LDARC products are manufactured to high-quality standards. For specific warranty terms and conditions, please refer to the documentation provided at the time of purchase or contact your retailer. For technical support, please reach out to your authorized LDARC dealer or visit the official LDARC website for assistance.

Related Documents - FM900

	LDARC CR1800 Receiver User Manual User manual for the LDARC CR1800 receiver, detailing its features, setup, binding process, LED indicators, specifications, and FCC warnings. Supports LDARC O2 bidirectional 2.4Ghz wireless system.
	LDARC TINY GT7 & GT8 Instruction Manual - Setup, Configuration, and Operation Guide Comprehensive instruction manual for LDARC TINY GT7 and TINY GT8 drones. Covers configuration, FC/ESC, motor, VTX/camera, receiver binding, Betaflight setup, PID tuning, and after-sale service.

	[LDARC ET MAX FPV Drone Instruction Manual] Comprehensive instruction manual for the LDARC ET MAX FPV drone, covering configuration, setup, binding, Betaflight configuration, PID tuning, and after-sale service.
	[LDARC FPVEGG PRO FPV Drone Instruction Manual] Comprehensive instruction manual for the LDARC FPVEGG PRO FPV drone, detailing its features, configuration, package contents, receiver setup, firmware updates, and after-sales service. Includes technical specifications and part codes.
	[Markar and Pemko Catalog: Architectural Door Hardware Solutions] Explore the comprehensive Markar and Pemko catalog featuring high-quality architectural door hardware, including continuous hinges, astragals, and edge guards. Discover durable, secure, and ADA-compliant solutions for commercial and architectural applications.