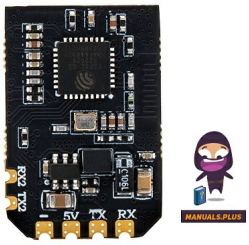
RADIO MASTER
XR3 Nano Multi Frequency Antenna Diversity Receiver



RADIO MASTER XR3 Nano Multi Frequency Antenna Diversity Receiver User Manual

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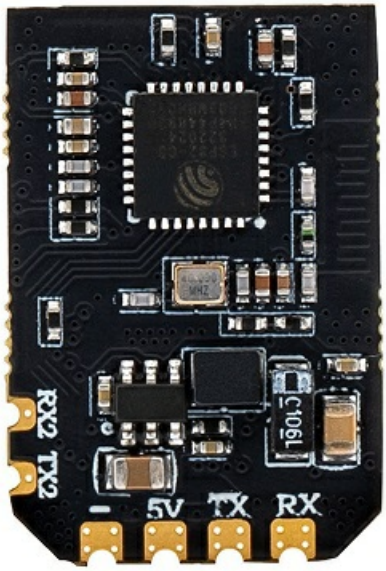


SPECIFICATIONS

- 1 * XR3 Nano Multi-Frequency Antenna Diversity ExpressLRS Receiver
- 2 * T Antenna (Either 2.4GHz, 900Mhz, or Dual-band depending on selected package)
- 1 * CRSF Wire
- 3 * Heat-Shrinkable Tube
- 1 * Manual Card

PRODUCT INFORMATION

- The XR3 Receiver is designed for multi-frequency antenna diversity in the 2.4 GHz range. It includes various components such as the XR3 Nano Receiver, T Antennas, CRSF Wire, and Heat-Shrinkable Tubes. The default firmware is RadioMaster XR3 2.4/900 Diversity RX.

For more detailed information, please visit the official ELRS website: **ELRS Website**

PRODUCT USAGE INSTRUCTIONS

Configuration

- To configure the XR3 Receiver:
  1. Connect Identifier USB VCP
  2. Set Configuration/MSP to 115200 for UART1 and UART2
  3. Configure Serial RX with settings 115200 for UART1 and UART2
  4. In Betaflight Configurator, enable the corresponding UART as Serial RX (e.g., UART2)
  5. Save the configuration and restart the system

Traditional Binding

1. Ensure the Binding Phrase field is uncommented in Device options on the RX
2. Power OFF your transmitter/radio
3. Plug in and unplug your receiver three times
4. Check for a quick double blink on the LED to confirm bind mode
5. Power ON your transmitter/radio and use the [BIND] button on the ExpressLRS Lua script to initiate binding
6. If the receiver's light is solid, it indicates successful binding

SPECIFICATIONS

- **Item:** XR3 Nano Multi-Frequency Antenna Diversity ExpressLRS Receiver
- **Type:** ISM2.4, FCC915
- **MCU:** ESP32C3
- **RF Chip:** LR1121
- **RF connector:** IPEX-1 X 2
- **Antenna:** 2x T-Antenna (Either 2.4GHz, 900Mhz or Dual-band depending on selected package)
- **Frequency Range:** 2.4GHz / Sub-G 900MHz [ISM 2.4GHz / FCC915]
- **Maximum receive refresh rate:** DK500Hz / K1000Hz

- **Minimum receiver refresh rate:** 25Hz
- **Working voltage:** DC 5.0 – 12.6v
- **Weight:** 1.3g (without antenna)
- **Dimension:** 22mm * 15mm * 4mm
- **Firmware Version:** ExpressLRS v3.5.1 pre-installed
- **Bus interface 1:** CRSF
- **Bus interface 2:** UART

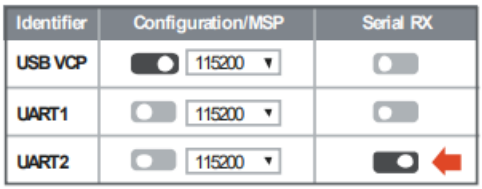
INCLUDES

- 1 * XR3 Nano Multi-Frequency Antenna Diversity ExpressLRS Receiver
- 2 * T Antenna (Either 2.4GHz, 900Mhz or Dual-band depending on selected package)
- 1 * CRSF Wire
- 3 * Heat-Shrinkable Tube
- 1 * Manual Card

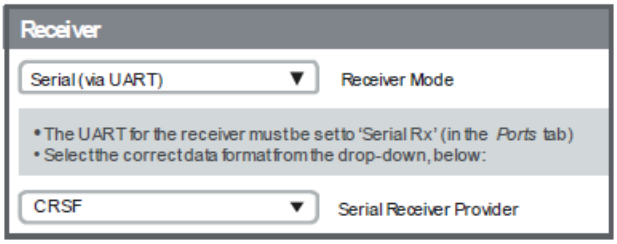
DEFAULT FIRMWARE

- RadioMaster XR3 2.4/900 Diversity RX

CONFIGURATION



- Open Betaflight Configurator, go to Ports tab and enable the corresponding UART as a Serial RX (e.g. UART2 as shown above)Save and Restart.



- On the Configuration tab, click on Serial-based receiver on the Receiver panel, and select CRSF.

TRADITIONAL BINDING

- Binding Phrase field must be uncommented in Device options on the RX.
    1. Power OFF your transmitter/radio.
    2. Plug in and unplug your receiver 3 times.
    3. Make sure the LED is doing a quick double blink, which indicates the receiver is in bind mode.

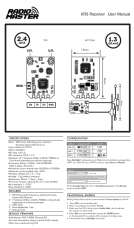
4. Power ON your transmitter/radio and use the [BIND] button on the ExpressLRS Lua script, which sends out a binding pulse.
5. If the receiver has a solid light, it's bound!

For more information, please visit the ELRS website:
https://www.expresslrs.org/2.0/

FAQ

- **Q: What should I do if my receiver does not enter bind mode?**
  - **A:** If the receiver does not enter bind mode, ensure that the Binding Phrase field is uncommented and follow the binding process carefully.
- **Q: Can I use different antennas with the XR3 Receiver?**
  - **A:** The XR3 Receiver comes with T Antennas suitable for different frequency ranges. Using other antennas may affect performance.
- **Q: How can I update the firmware of the XR3 Receiver?**
  - **A:** Firmware updates for the XR3 Receiver can be found on the official ELRS website. Follow the provided instructions for firmware updates.

Documents / Resources

	RADIO MASTER XR3 Nano Multi Frequency Antenna Diversity Receiver [pdf] User Manual XR3, XR3 Nano Multi Frequency Antenna Diversity Receiver, Nano Multi Frequency Antenna Diversity Receiver, Multi Frequency Antenna Diversity Receiver, Antenna Diversity Receiver, Diversity Receiver, Receiver

References

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