

RadioMaster ESP32, ESP8285 2.4GHZ ELRS Module



Contents [[hide](#)]

- [1 Features](#)
- [2 Specifications](#)
- [3 How To Bind](#)
- [4 How And When To Use Your Moxon Or T-antenna](#)
- [5 FCC Warning](#)
- [6 Documents / Resources](#)
 - [6.1 References](#)

Features

High efficiency cooling system

OLED Display

Packet rates up to 200Hz

Directional Nav key and customizable shortcut buttons

Specifications

Regulatory Domain: 903.5-926.9MHz

MCU:ESP32(main),ESP8285(aux, as ESP backpack)

RF chip: SX1276

Maximum receiver refresh rate: 200Hz

Minimum receiver refresh rate: 25Hz

JR standard 5pin socket Micro/Nano

Nano standard 8pin socket

Built-in RGB Lights

Built-in OLED screen

XT30 Power supply voltage: DC 6V ~ 16.8V

Weight: Micro 78 grams / Nano 62 grams (with antenna)

Dimension: Micro 49*33.5*73mm / Nano 41*27*79mm

How To Bind

Bandit module require ELRS V3.0.0 or later. Please ensure your receiver is using V3.0.0 or later first.

There are two ways to bind with RX.

Bind by Bandit

1. Long press Bandit 5-way button, then press up/down to “BIND” menu, press right to enter.
2. Re-power 3 times your ELRS RX, make sure it on bind mode (LED double blink).
3. Press middle button to bind.

Bind by Radio LUA

1. Enter radio ELRS LUA

2. Re-power 3 times your ELRS RX, make sure it on bind mode (LED double blink).
3. Press “Bind” on LUA menu.

Bind with Bindphrase.

Learn more here <https://www.expresslrs.org/3.0/quick-start/binding/>

How And When To Use Your Moxon Or T-antenna

Type: MOXON

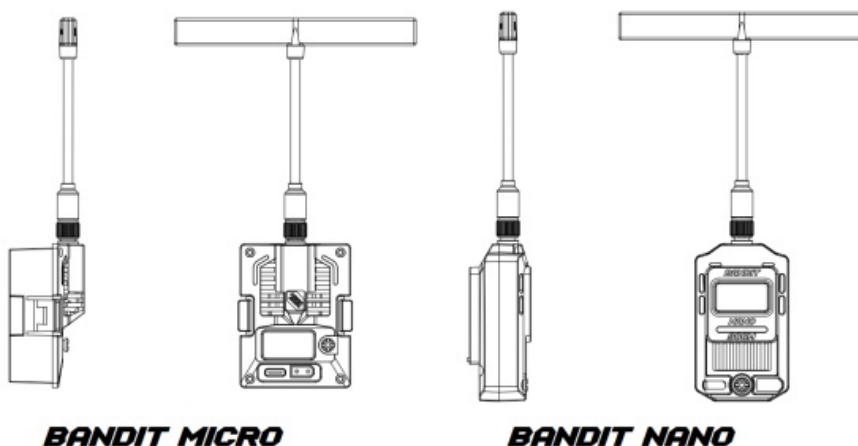
The Moxon directional antenna is intended for long range and has a more narrow field of operation. It is important to keep the Moxon antenna pointed in the general direction of your aircraft.

Antenna polarization: vertical/horizontal polarization

Type: T-Antenna

The T-Antenna is an omnidirectional antenna. It is intended for short to medium range and is suitable for most conditions.

Antenna polarization: vertical/horizontal polarization.



FCC Warning

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:


(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Any Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment. Note: This equipment has been tested and found to comply with the limits for a Class B digital

device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna. -Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help. This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body

Documents / Resources

	RadioMaster ESP32, ESP8285 2.4GHZ ELRS Module [pdf] User Manual BANDIT-N-M, 2BBP3-BANDIT-N-M, 2BBP3BANDITNM, ESP32 ESP8285 2.4GHZ ELRS Module, ESP32 ESP8285, 2.4GHZ ELRS Module, ELRS Module, Module
---	--

References

- [User Manual](#)

Leave a comment

Your email address will not be published. Required fields are marked *

Comment *

Name

Email

Website

☐ Save my name, email, and website in this browser for the next time I comment.

Post Comment

Search:

e.g. whirlpool wrf535swhz

Search

[Manuals+](#) | [Upload](#) | [Deep Search](#) | [Privacy Policy](#) | [@manuals.plus](#) | [YouTube](#)

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.