RADIO MASTER Bandit Micro Module User Manual

Contents

RADIO MASTER Bandit Micro Module

Specifications

- **Frequency:** 900MHz
- **Antenna:** T-ANTENNA (2.7dBi Gain)
- **Weight:** 78 grams
- **Dimensions:** 64.1mm x 49.6mm x 34.1mm (without antenna)
- **Transmission** Power: 1000mW / 30dBm
- **Packet Rates:** 25Hz / 200Hz
- **Microcontroller:** ESP32 (main), ESP8285 (aux)
- **RF Chip**: SEMTECH SX1276
- **UART:** Yes
- **OLED Display:** Yes

Product Description
The Bandit Micro 900MHz ELRS Module is a cutting-edge device with a maximum 200Hz packet rate and an innovative convection cooling system. It is designed to be attached to compatible radios like TX16S MKII, Boxer, TX12 MKII to leverage the benefits of ELRS technology.

Package Includes

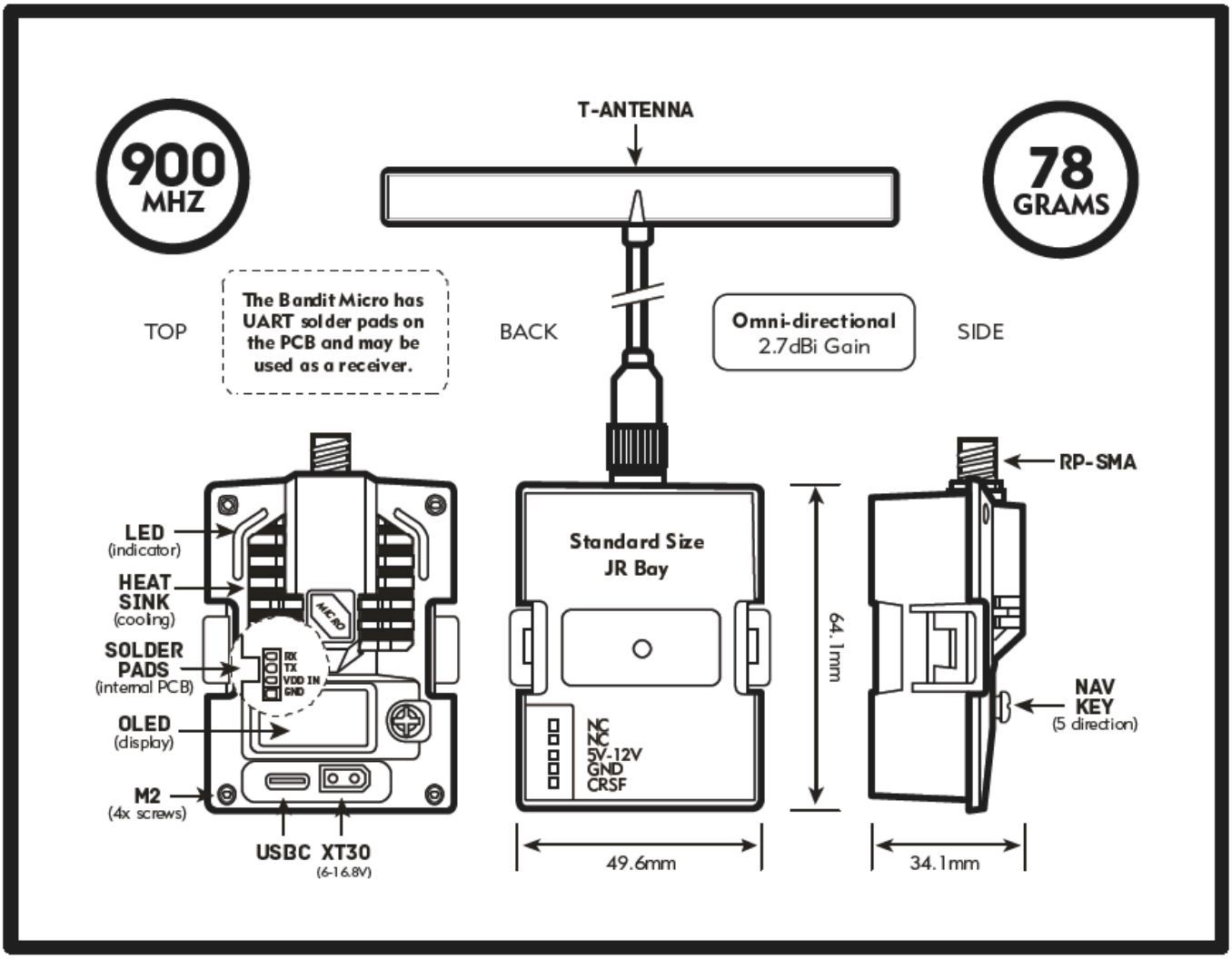
- 1x Bandit Micro Module
- 1x 900MHz T-Antenna
- 1x Manual

Product Usage Instructions

1. Connect the Bandit Micro Module to a compatible radio following the provided instructions.

2. Attach the included T-Antenna for general flying purposes.
3. For directional applications, consider purchasing the optional MOXON antenna.
4. Refer to the user manual for detailed setup and configuration procedures.

DIMENSIONS



Featuring a maximum 200Hz packet rate and an innovative convection cooling system, the Bandit Micro 900MHz ELRS Module represents the cutting edge in ELRS technology. Attach the module to a compatible radio (TX16S MKII, Boxer, TX12 MKII and more) to enjoy all that ELRS has to offer. The included T-shape antenna is designed for general-purpose flying. An optional MOXON antenna is available separately for directional applications.
Note:
The Bandit Micro 900MHz ELRS Module fits JR-style micro module bays, for Nano connectors, please consider the Bandit and the Bandit Nano modules.

FEATURES

- Up to 1-watt power output
- Packet rates up to 200Hz
- Optimized circuitry for ultra-low power consumption
- Built-in TCXO oscillator
- Low noise, high comfort
- High contrast OLED display

- Innovative convection cooling design
- Wifi and Bluetooth support
- Built-in ExpressLRS backpack
- 5 Directional nav key
- 915/868MHz T Antenna included
- Supports TX16S MKII, Boxer, and TX12 MKII radios

SPECIFICATIONS

- Regulatory Domain: FCC915
- MCU: ESP32 (main) ESP8285 (aux, as ESP backpack)
- RF Chip: SEMTECH SX1276
- Refresh Rate: 25Hz / 200Hz
- RF Output Power: 1000mW / 30dBm
- Micro Standard JR Bay: Yes
- Built-in OLED Screen: Yes
- XT30 Power Supply Voltage: DC 6V – 16.8V
- Weight: 78g (with antenna)
- Dimension: 64.1*49.6*34.1mm (without antenna)
- Firmware (pre-installed): ExpressLRS v3.0

INCLUDES

- 1x Bandit Micro Module
- 1x 900MHz T-Antenna
- 1x Manual

DEFAULT FIRMWARE

RadioMaster Bandit Micro 900MHz TX
We wish to thank the ExpressLRS team for their support and testing during the development of the Bandit series.
To learn more and support the ExpressLRS project visit: **https://www.expresslrs.org**

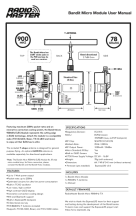
Frequently Asked Questions

Q: What radios are compatible with the Bandit Micro Module?
A: The Bandit Micro Module is compatible with radios like TX16S MKII, Boxer, and TX12 MKII.

Q: Is the Bandit Micro Module suitable for long-range flights?
A: Yes, the Bandit Micro Module operates at 900MHz and supports ELRS technology, making it suitable for long-range flights.

Q: Can I use the Bandit Micro Module as a receiver?
A: Yes, the Bandit Micro Module has UART solder pads on the PCB and can be used as a receiver.

Documents / Resources

	**RADIO MASTER Bandit Micro Module** [pdf] User Manual Bandit MicroTX16Sa, BoxeraTX12Micro, Bandit Micro Module, Micro Module, Module

References

- **High Performance Open Source Radio Control Link - ExpressLRS**
- **Redirecting...**
- **User Manual**