

MicroMod LoRa Function Board

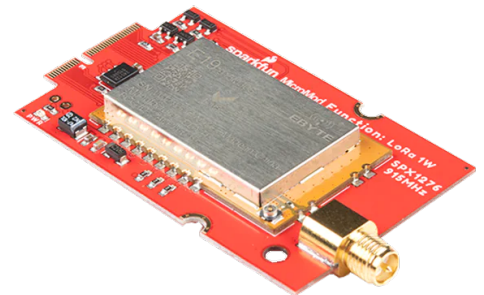
Product Overview

10/14/2022

For the most up-to-date information, visit www.mouser.com or the supplier's website.

Description

SparkFun MicroMod LoRa Function Board provides LoRa and LoRaWAN capabilities to the MicroMod projects. This function board can be used with a MicroMod Processor Board and a MicroMod main Board, which is responsible for the electrical interface between a processor board and the function board

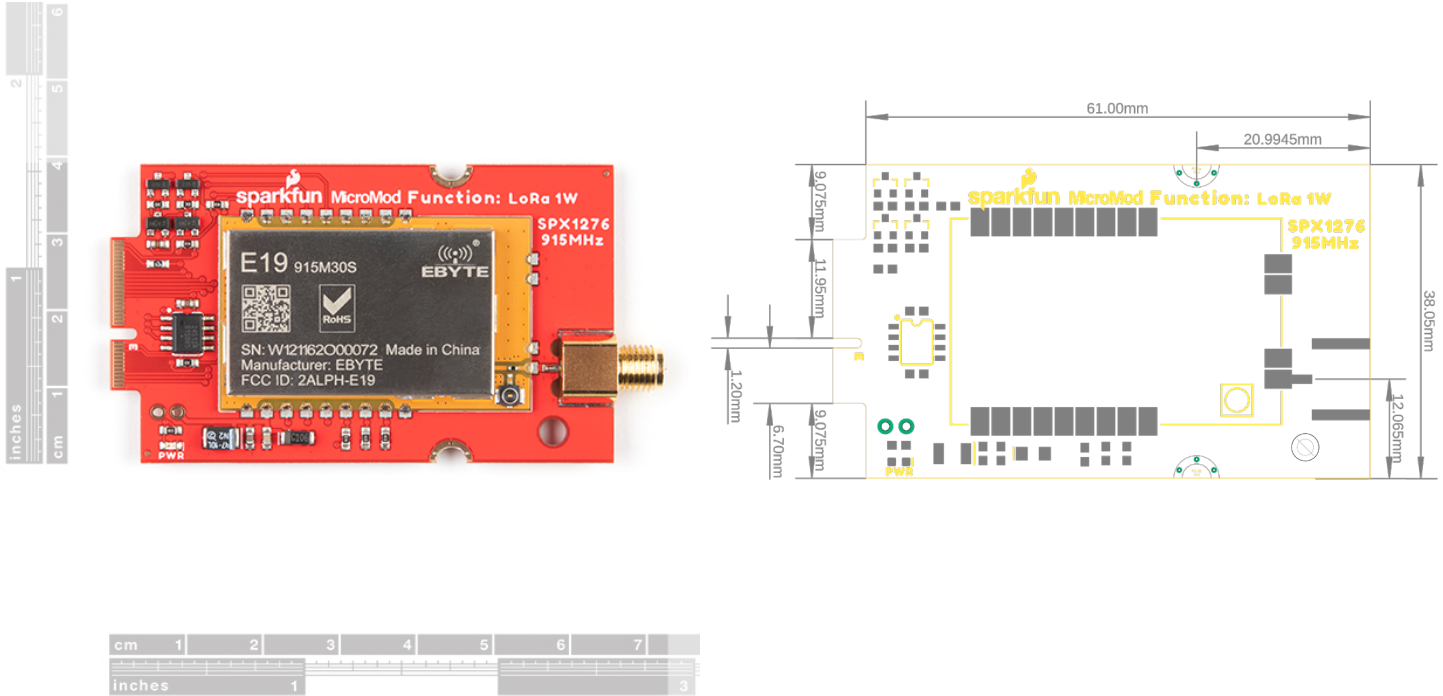


The LoRa Function Board uses the 915M30S LoRa module from EBYTE, which is a 30dBm transceiver based around the SX1276 from Semtech. This board includes a robust edge mount RP-SMA connector for large LoRa (915MHz) antennas that is also available with modification, a U.FL connector. This LoRa module operates on a 900MHz to 931MHz frequency range, up to 30dBm power, and LoRa, FSK, GFSK, MSK, GMSK, and OOK modulations. LoRa function board is tested with a 12 miles line-of-sight transmission and was successful.

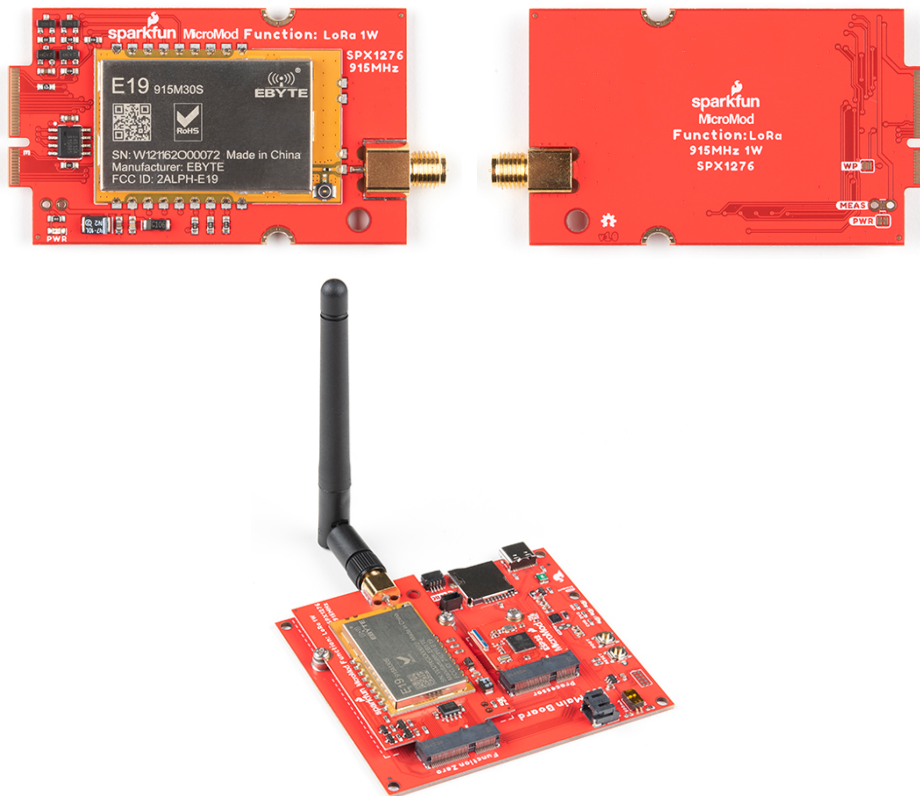
Features

- Board features:
 - M.2 MicroMod edge interface
 - Keyed screw slots
 - RP-SMA antenna connector
 - Configurable U.FL antenna connector
- 1W 915M30S LoRa module features:
 - Based on SX1276 chipset from Semtech
 - 900MHz to 931MHz frequency range
 - 28.5dBm to 30dBm (max) transmit power
 - LoRa, FSK, GFSK, MSK, GMSK, OOK modulation
 - Data Rate:
 - 1.2kbps to 300kbps for FSK
 - 0.018kbps to 37.5kbps for LoRa
 - 50Ω antenna impedance
- MicroMod peripherals used:
 - 5V Power
 - I²C Bus (EEPROM)
 - SPI Bus
 - GPIO (7 pins)

Board Dimensions



Board Overview



Additional Resources

- [Schematic](#)
- [Hookup guide](#)
- [Eagle guide](#)

Mouser Part Number

[View Part](#)

To learn more, visit <https://www.mouser.com/new/sparkfun/sparkfun-micromod-lora-function-board/>