

LoRa Radio Bonnets

With RFM95W @915MHz & RFM96W @433MHz

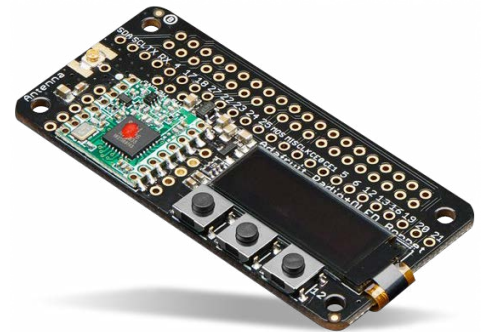
Product Overview

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Description

Adafruit LoRa Radio Bonnets with RFM95W @915MHz and RFM96W @433MHz are Raspberry Pi computers with WiFi and Bluetooth. These devices upgraded to a Raspberry Pi with a LoRa/LoRaWAN radio to communicate over very long distances. The bonnets plug into a Pi and give long-range wireless capabilities to remote nodes that may be battery powered. These Radio bonnets also create Internet gateways with ease.



A 128 x 32 OLED display is included for status messages and three buttons for creating a custom user interface or sending test messages. These bonnets supports Python libraries so you can send or receive LoRa data with other matching modules, send data to a LoRaWAN gateway, or even set up your own single channel LoRaWAN-to-Internet gateways. The bonnets come fully assembled and ready to go that can attach an antenna via the uFL connector, or cut and solder on a small piece of wire (any solid or stranded core is fine) in order to create your antenna.

Features

- Packet radio with ready-to-go CircuitPython libraries
- Uses the license-free ISM band:
 - “European ISM” @ 868MHz
 - “American ISM” @ 915MHz
- Use a simple wire antenna or spot for uFL or SMA radio connector
- SX1276 LoRa® based module with SPI interface
- +5 to +20dBm up to 100mW power output capability (power output selectable in software)
- ~100mA peak during +20dBm transmits and ~30mA during active radio listening
- Range of approx. 2Km, depending on obstructions, frequency, antenna, and power output

Mouser Part Number(s)

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To learn more, visit <https://www.mouser.com/new/adafruit/adafruit-rfm95w-bonnets/>