

RFM69HCW 5GHz 802.11ax Wi-Fi Front End Modules

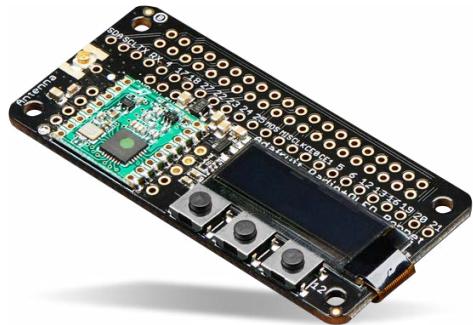
Product Overview

08-31-2021

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

Description

Adafruit RFM69HCW Transceiver Radio Bonnets are Raspberry Pi computers with WiFi, Bluetooth, and more radio options. Upgrade a Raspberry Pi with a sub-GHz radio transceiver to communicate over long distances. The bonnets plug into a Pi and give long-range wireless capabilities to remote nodes that can be battery powered and create Internet gateways with ease. Included is a 128x32 OLED display for status messages and three buttons for creating a custom user interface or sending test messages. Everything above is supported by Python libraries to send or receive packetized radio data with other matching modules in a network.



Gateways can be crafted using Pi's built-in networking capabilities. The 4072 is the 900MHz radio version that can be used for 868MHz and 915Mhz transmission/reception. The 4073 is the 433MHz RFM69 radio version that can be used for 433MHz transmission/reception.

Features

- Packet radio with ready-to-go CircuitPython libraries
- SX1231 based module with SPI interface
- 13dBm to 20dBm up to 100mW power output capability (power output selectable in software)
- 50mA (+13dBm) to 150mA (+20dBm) current draw for transmissions, ~30mA during active radio listening
- Range of approx. 500 meters, depending on obstructions, frequency, antenna, and power output
- Create multipoint networks with individual node addresses
- Encrypted packet engine with AES-128
- 4072: uses the license-free ISM band: “European ISM” @ 868MHz or “American ISM” @ 915MHz
- 4073: uses the amateur or license-free ISM band (ITU “Europe” license-free ISM or ITU “American” amateur with limitations)
- Use a simple wire antenna or spot for uFL or SMA radio connector.

Mouser Part Number(s)

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To learn more, visit <https://www.mouser.com/new/adafruit/adafruit-rfm69hcw-bonnets/>

The information contained in this document should be used as a guideline only.