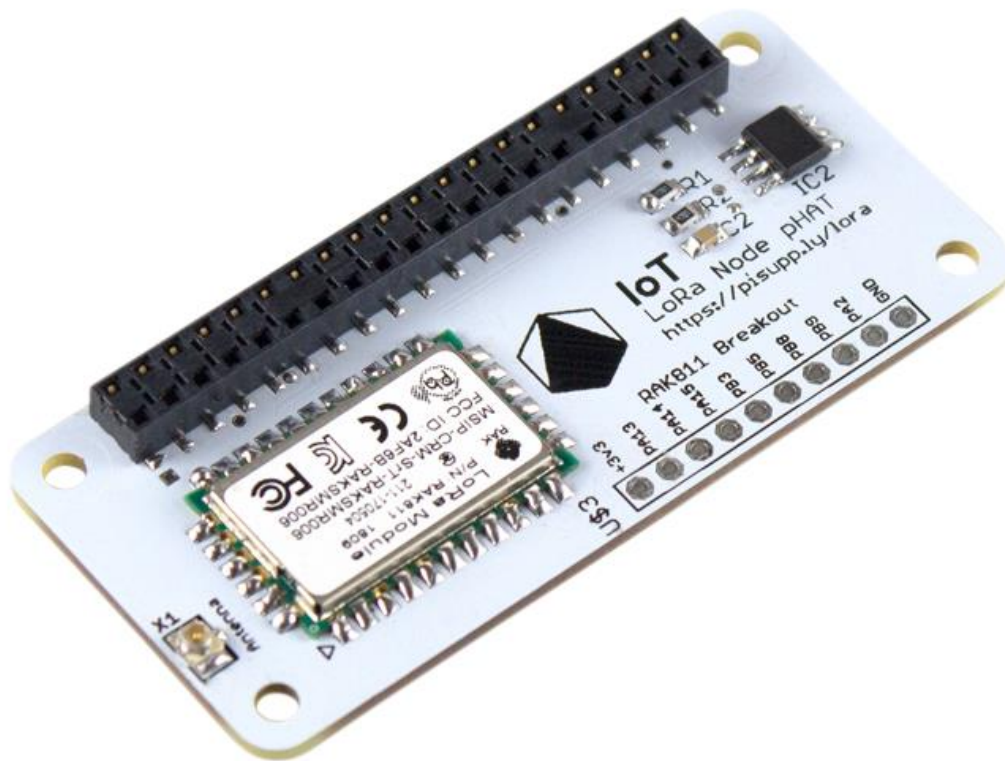LoRa (Long Range) is the smart, long-range, wireless transmission technology that is enabling the future of IoT (Internet of Things).

The IoT LoRa Node pHAT allows you to create an inexpensive LoRa node, compatible with The Things Network, in conjunction with a Raspberry Pi or other single board computers. This pHAT allows quicker prototyping as it has the LoRa stack on the chip. Add sensors, buttons and more to complete your LoRa network!

The IoT LoRa Node pHAT uses the RAKWireless RAK811 LoRa node module which is based on Semtech SX1276 LoRa technology.

The board can be configured to use either of the two different frequencies listed below:
- 868 MHz
- 915 MHz

Features

- Uses RAK811 LoRa Radio with full LoRaWAN Stack embedded
- Communicates with the Raspberry Pi over UART only using a total of 3 GPIO Pins for the module.
- Supports LoRaWAN Connections and LoRaP2P Modes.
- u.FL connector and antenna allowing different antennas to be used or integrated into boxes with external antennas.
- Low power - uses less than 50mA During transmission

Compatible with

- Raspberry Pi A+
- Raspberry Pi B+
- Raspberry Pi 2B
- Raspberry Pi 3B
- Raspberry Pi 3B+
- Raspberry Pi Zero
- Raspberry Pi Zero W
- Any other Raspberry Pi with 40 GPIO Pins

Contents

- IoT LoRa Node pHAT
- RAK811 Pre-assembled
- Mounting Hardware
- Stickers
- Info card

ECCN/HTS

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