

INDUSTRIAL PRODUCT DATASHEET

IoT Long Range Node for Raspberry Pi - 915MHz/868MHz

Create an affordable LoRaWAN node for The Things Network with this Raspberry Pi pHAT, featuring the RAK811 module and low-power operation.

SKU

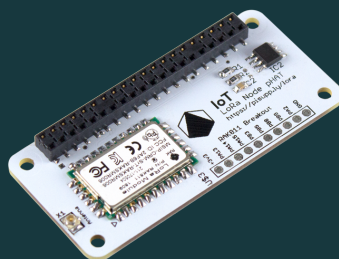
113990657

UPDATED

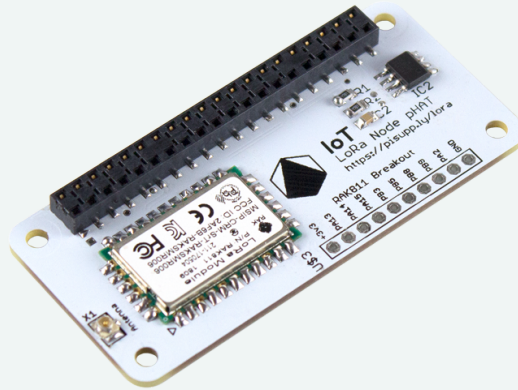
2026-04-09 12:46:04

PRICE

\$33.90(Excl. VAT)



Overview



The IoT Long Range Node pHAT is a Raspberry Pi add-on board that enables long-range wireless IoT communication using LoRaWAN technology. It features the RAK811 module with an embedded LoRaWAN stack, supporting 868 MHz or 915 MHz frequencies, and connects via UART using only three GPIO pins.

Key Features

Description

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

Our IoT Long Range Node pHAT allows you to create an inexpensive Long Range 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 Long Range stack on the chip. Add sensors, buttons and more to complete your Long Range network!

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

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

- 868 MHz
- 915 MHz
- Need more information about frequencies in your region? [Click here.](#)
- Uses RAK811 Long Range 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

Pair the Long Range Node pHAT with our Long Range Gateway HAT

We also have a Long Range Gateway HAT designed for the Raspberry Pi that works with all of the Long Range nodes we sell.

IoT Long Range Gateway HAT for Raspberry Pi

Compatible with

- [Raspberry Pi A+](#)
- [Raspberry Pi B+](#)
- [Raspberry Pi 2B](#)
- [Raspberry Pi 3B](#)
- [Raspberry Pi 3B+](#)
- [Raspberry Pi Zero](#)
- [Raspberry Pi Zero W](#)
- Plus any other [Raspberry Pi](#) with 40 GPIO Pins

What's Inside?

- IoT Long Range Node pHAT
- **RAK811** Pre-assembled
- Mounting Hardware
- Stickers
- Info card

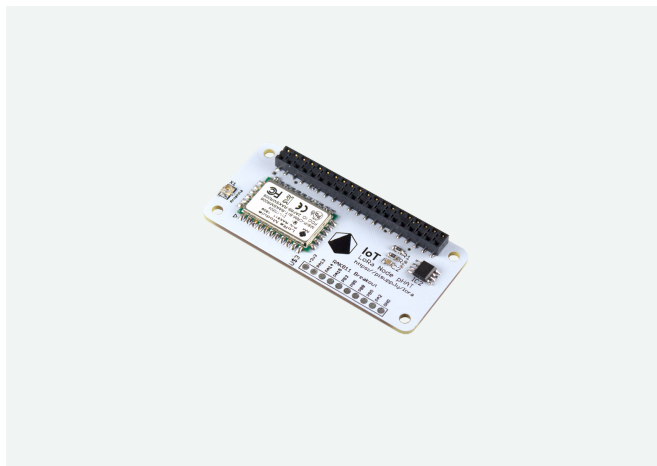
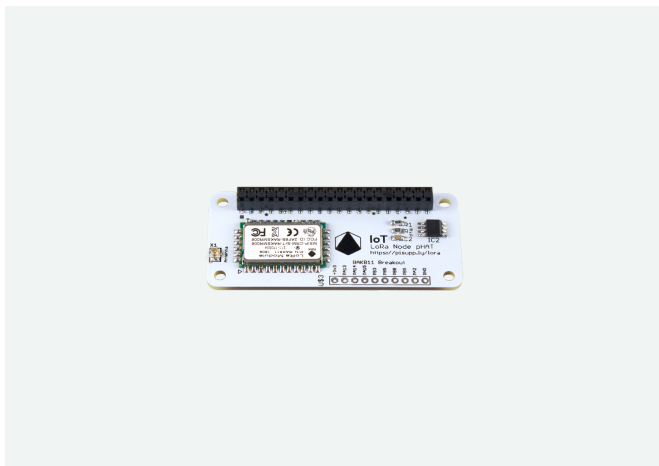
Setup Guides

[GitHub](#)

IoT Long Range Boards - Your Gateway to the Internet of Things

The Things Conference 2019 Roundup - Amsterdam 2019

Product Gallery



Compliance & Logistics



HSCODE	8543909000
USHSCODE	8543903500
UPC	
COO	UNITED KINGDOM

Resource Links

- <https://www.seeedstudio.com/IoT-LoRa-Node-pHAT-for-Raspberry-Pi-915-MHz-868MHz-p-4033.html>

Seeed Technology Co.,Ltd.
9F, Building G3, International E City,
Zhongshanyuan Road, Nanshan, Shenzhen, China

Tel: +86 0755-80695676
Web: www.seeed.cc
Shop: www.seeedstudio.com