



IoT micro:bit LoRa Node

Description

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

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

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

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

- EU 863 - 870 MHz
- US 902 - 928 MHz
- AU 915 - 928 MHz
- AS 923 MHz
- IN 865 - 867MHz
- KR 920 MHz

Features

- Uses RAK811 LoRa Radio with full LoRaWAN Stack embedded
- Supports LoRaWAN Connections and LoRaP2P Modes. uFL 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

- BBC micro:bit



What is The Things Network?

The Things Network is a rapidly growing LoRaWAN Provider that is increasing coverage constantly throughout the UK and Worldwide, the benefit of using a public network is devices that you build in one area of the UK will work in any area of the UK or even the EU as long as you're within Coverage! Not got coverage? You can setup your own gateway (such as our IoT LoRa Gateway HAT for Raspberry Pi) for you and others to use and increase the coverage at the same time. The Things Network offers a commercial plan but more importantly the free to use community plan as standard.

What's Inside?

- IoT LoRa micro:bit Node
 - RAK811 Pre-assembled
 - Mounting Hardware
 - Stickers
 - Info card
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