Dragino NB-IoT Shield-B8
SKU 109030001

What are you looking for?

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Description

NarrowBand-Internet of Things (NB-IoT) is a standards-based low power wide area (LPWA) technology developed to enable a wide range of new IoT devices and services. NB-IoT significantly improves the power consumption of user devices, system capacity and spectrum efficiency, especially in deep coverage. Battery life of more than 10 years can be supported for a wide range of use cases.

New physical layer signals and channels are designed to meet the demanding requirement of extended coverage – rural and deep indoors – and ultra-low device complexity. Initial cost of the NB-IoT modules is expected to be comparable to GSM/GPRS. The underlying technology is however much simpler than today’s GSM/GPRS and its cost is expected to decrease rapidly as demand increases.

Arduino is an open-source electronics platform based on easy-to-use hardware and software, it is an easy tool for fast prototyping, aimed at students without a background in electronics and programming. As soon as it reached a wider community, the Arduino board started changing to adapt to new needs and challenges, differentiating its offer from simple 8-bit boards to products for IoT applications, wearable, 3D printing, and embedded environments. All Arduino boards are completely open source, empowering users to build them independently and eventually adapt them to their particular needs. The software, too, is open-source, and it is growing through the contributions of users worldwide.

NB-IoT Shield is an expansion board for Arduino to add NB-IoT technology. With NB-IoT Shield and Arduino, user can study/evaluate and do POC for NB-IoT solution rapidly.

Features:
- Support 900MHz NB-IoT Bands
- Low power consumption
- Wide area coverage
- AT command to control
- Auto support 3.3v or 5v Arduino board
- Compatible with Arduino Leonardo, Uno, Mega2560, DUE... etc

Applications:
- Smart metering (electricity, gas and water)
- Facility management services
- Intruder and fire alarms for homes & commercial properties
- Connected personal appliances measuring health parameters
- Tracking of persons, animals or objects
- Smart city infrastructure such as street lamps or dustbins
- Connected industrial appliances such as welding machines or air compressors

System Structure:

UART_TX and UART_RX are connected to D10/D11 of Arduino. To use other pins for UART communication, user can remove the UART_TX and UART_RX jumper and wire the right side of these headers to other pins of UNO. The software serial pins also need to do related changes in Sketch.

SIM Card Direction:

Technical Details

Dimensions: 110mm x 68mm x 35mm
Weight: G.W 53.50g
Battery: Exclude
Part List
NB-IoT Shield
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IN STOCK
18 Available

Description
Technical Details
Questions and Answers

Questions and Answers
Have a question about this? Ask people who.

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