

NB-IoT Shield for Arduino

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Arduino

Fastest way to NB-IoT

OVERVIEW:

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 itis 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.

Order Option:

·NB-IoT Shield-QB05: For B5:850Mhz ·NB-IoT Shield-QB08: For B8:900Mhz ·NB-IoT Shield-QB20: For B20:800Mhz

Features:

- ·Support different NB-IoT Bands, can use world widely
- ·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

Specifications:

Output Power: 23dBm

·Sensitivity: -129dBm

·Input Vcc: 4.5v ~ 5.5v ·Micro SIM Interface

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

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