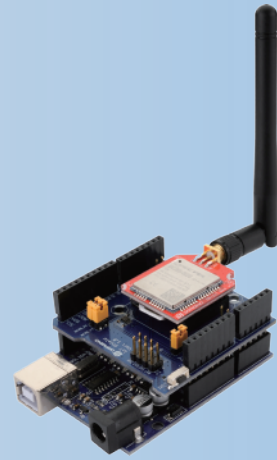
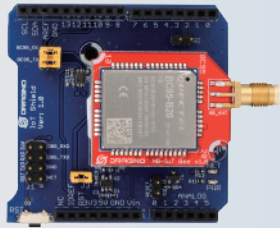


# NB-IoT Shield for Arduino

## NB-IoT Shield



**NB-IoT Shield**

**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 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.

## 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
- Operation Temperature: -40℃ ~ +85℃
- 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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