



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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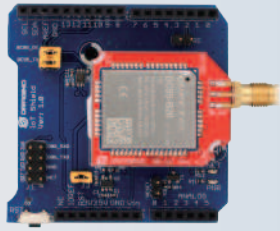
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# NB-IoT Shield for Arduino

## 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 °C ~ +85 °C
- 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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