# NB-IoT Door Sensor

## DS03A-NB

Stores

Villa

WareHouse

SuperMarket

Garag

Home Area

## OVERVIEW:

The Dragino DS03A-NB is a NB-IoT Door Sensor for Internet of Things solution. It detects door open/close status and uplinks to IoT server via NB-IoT network. user can see the door status, open duration, open counts in the IoT Server.

The DS03A-NB will send periodically data every 2 hours as well as for each door open/close action. It also counts the door open times and calculates the last door open duration. Users can also disable the uplink for each open/close event, instead, DS03A-NB can count each open event and uplink periodically.

DS03A-NB supports Datalog Feature, it can save the data when there is no NB-IoT network and uplink when network recover.

DS03A-NB has the Open Alarm Feature, user can set this feature so the device will send an alarm if the door has been open for a certain time.

DS03A-NB is designed for outdoor use. It has a weatherproof enclosure and industrial level battery to work in low to high temperatures.

DS03A-NB supports different uplink methods including MQTT, MQTTs, UDP & TCP for different application requirement, and support uplinks to various IoT Servers.

DS03A-NB supports BLE configure and OTA update which make user easy to use.

DS03A-NB is powered by 8500mAh Li-SOCI2 battery, it is designed for long-term use up to several years.

DS03A-NB has optional built-in SIM card and default IoT server connection version. Which makes it works with simple configuration.

### Features:

- NB-IoT Bands: B1/B2/B3/B4/B5/B8/B12/B13/B17 /B18/B19/B20/B25/B28/B66/B70/B85 @H-FDD
- Ultra-low power consumption
- Door Open/Close detect
- Door open/close statistics
- Datalog Feature
- Open Alarm Feature
- Multiply Sampling and one uplink
- Support BLE remote configure and update firmware
- Downlink to change configure
- Uplink on periodically
- 8500mAh Battery for long term use
- Nano SIM card slot for NB-IoT SIM

## Specifications:

### Common DC Characteristics:

- Supply Voltage: 2.5v ~ 3.6v
- Operating Temperature: -40 ~ 85°C

### NB-IoT Spec:

- NB-IoT Module: BC660K-GL
- Support Bands: B1/B2/B3/B4/B5/B8/ B12/B13/B17/B18/B19/B20/B25/B28/ B66/B70/B85 @H-FDD

### Battery:

- Li/SOCI2 un-chargeable battery
- Capacity: 8500mAh
- Self-Discharge: <1% / Year @ 25°C
- Max continuously current: 130mA
- Max boost current: 2A, 1 second

### Power Consumption:

- STOP Mode: 10uA @ 3.3v
- Max transmit power: 350mA@3.3v

### Order Info: DS03A-NB-XX

XX:

- GE: General version (Exclude SIM card)
- 1D: with 1NCE* 10 years 500MB SIM card and Pre-configure to DataCake server