

NB-IoT Temperature Sensor

D23-NB



OVERVIEW:

The Dragino D23-NB is a **NB-IoT Temperature Sensor** for Internet of Things solution. D23-NB will convert the **Temperature reading** to upload the sensor data send to IoT platform via NB-IoT network.

The temperature sensor used in D23-NB can **measure -55°C ~ 125°C with accuracy ±0.5°C** (max ±2.0 °C).

D23-NB supports **temperature alarm** feature, user can set temperature alarm for instant notice. D23-NB supports Datalog feature, it can save the data when there is no NB-IoT network and uplink when network recover.

D23-NB supports different uplink methods including **MQTT, MQTTs, UDP & TCP** for different application requirement, and support uplinks to various IoT Servers.

D23-NB supports **BLE configure and OTA update** which make user easy to use.

D23-NB is powered by **8500mAh Li-SOCI2 battery**, it is designed for long-term use up to several years.

D23-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
- 3 x DS18B20 Temperature probes
- Measure range: -55°C ~ 125°C
- Temperature alarm
- Multiply Sampling and one uplink
- Support BLE remote configure and update firmware
- IP66 Waterproof Enclosure
- Uplink on periodically
- Downlink to change configure
- 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

Temperature Sensor:

- Dallas DS18B20
- Range: -55 to + 125°C
- Accuracy ±0.5°C (max ±2.0 °C)

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: D23-NB-XX

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

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