

NB-IoT Outdoor Temperature & Humidity Sensor

N95S31B



OVERVIEW:

The Dragino N95S31B is a **NB-IoT Temperature and Humidity Sensor** for Internet of Things solution. It is used to **measure the surrounding environment temperature and relative air humidity** precisely, and then upload to IoT server via NB-IoT network*.

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.

The temperature & humidity sensor used in N95S31B is **SHT31**, which is fully calibrated, linearized, and temperature compensated digital output from Sensirion, it provides a strong reliability and long-term stability. The SHT31 is fixed in a **waterproof anti-condensation casing** for long term use.

N95S31B is powered by **8500mAh Li-SOCI2 battery**, It is designed for long term use up to several years. (Real-world battery life depends on the use environment, update period. Please check related Power Analyze report).

N95S31B supports different uplink methods include **TCP, MQTT, UDP and CoAP** for different application requirement.

To use N95S31B, user needs to check if there is NB-IoT coverage in local area and with the bands N95S31B supports. If the local operate support it, user needs to get a **NB-IoT SIM card** from local operator and install N95S31B to get NB-IoT network connection.

Features:

- NB-IoT Sensor Node
- Ultra low power consumption
- Monitor environment temperature
- Monitor relative air humidity
- NB Bands: B1/B3/B8/B5/B20/B28
- Uplink via MQTT,TCP,CoAP or UDP
- AT Commands to change parameters
- Uplink on periodically
- IP66 Waterproof Enclosure

Specifications:

NB-IoT Module:

- NB Module: Quectel BC35-G
- B1 @H-FDD: 2100MHz
- B3 @H-FDD: 1800MHz
- B8 @H-FDD: 900MHz
- B5 @H-FDD: 850MHz
- B20 @H-FDD: 800MHz
- B28 @H-FDD: 700MHz
- Protocol: CoAP, UDP, MQTT, TCP

Part Number - N95S31B