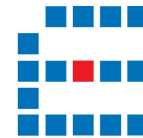# NB-IoT Outdoor Temperature & Humidity Sensor

N95S31B

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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
- Ultro 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 BC95-GV
  - 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