# Low Energy RF (BLE compatible) Beacon with Temperature and Humidity Sensor

Model: AC-BLE-T110TH



## Industrial grade RF beacon

AC-BLE-T110TH is a RF (iBeacon Compatible) Beacon specially designed for Temperature and Humidity measurement application. The beacon is connected with Temperature and Humidity Sensor via I2C to read the sensor reading. By bundling with our AC-BW-R120 WiFi-RF Receiver, the realtime status can be sent to application server through existing WiFi network

## Electrical Specification

- Bluetooth 5 Compatible
- iBeacon Compatible
- Chipset: Nordic NRF52840
- 256kB RAM, 1MB Flash
- Frequency: 2.4GHz
- Battery Type: CR2477 (3V 1000mAh) Coin Battery for optimal lifetime and compact size
- Programmable Beacon Power and duration
    - BT4.2 Advertise or/and Long Range (PHY Coded) Mode
    - Transmission range upto 200m (with Long Range Phy Coded)
    - Android management Apps
- Flexible setting for different application
    - Interval: From 50 to 3600000ms
    - Power: -20, -16, -12, -8, -4, 0, +2, +3, +4, +5, +6, +7, +8 dBm.

## Beacon ID format

i-Beacon Format include embedded data such as MAC Address, UUID, Major, Minor, Battery Level, Power, (Tempature and Humidity reading can be embedded in Major and Minor value)

## Environmental Specification

**Beacon:**

- Operating temperature: : -25°C to +75°C
- Size: 61 x 51 x 23mm

**Temperature and Humidity Sensor:**

- Sensor IC: SENSIRION SHTC3
- Measurement Range: -40 to +125°C, 0 to 100 %RH
- Accuracy Tolerance (in typcial condition): ±0.2 °C, ±2.0 %RH

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