

# Temperature & Humidity Sensor

DOC ver.: BQW\_03\_0020.001



## Features

- EU, US, and Asia frequency supported
- LoRaWAN 1.0.3
- Temperature Accuracy: +/- 1°C
- Humidity Accuracy: +/- 5%
- IP40 equivalent
- 0 to 50°C operation temperature range

The Tabs temperature and humidity sensor is designed for in-home and in-building usage for consumer or facility management applications. The design is optimized for high volume manufacturing, optimal battery lifetime, and pleasing aesthetics for in-building placement.

## Specification

|                       |  |
|-----------------------|--|
| Frequency             | 868MHz & 915MHz                          |
| RF TX power           | US: +19dBm<br>EU: +17dBm                 |
| Antenna Gain          | -2dBi Peak, -5dBi Avg                    |
| RF Sensitivity        | -135dBm                                  |
| Battery Type          | 3.6V ½ AA Li-SOCl <sub>2</sub> , 1200mAh |
| Battery Lifetime*     | Up to 16 months                          |
| Average Current       | 135mA maximum / 100uA minimum            |
| Protocol              | LoRaWAN 1.0.3                            |
| Operation Temperature | 0 to 50°C                                |
| Environmental Rating  | IP40 equivalent                          |
| Dimensions            | 50mm x 20mm x 50mm                       |
| Weight                | 30g without battery<br>40g with battery  |
| Temperature Accuracy  | +/- 1°C                                  |
| Humidity Accuracy     | +/- 5%                                   |
| Type Approval         | CE/FCC/IC                                |

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## SKU Detail

| SKU         | Country | Channels | Frequency Band (MHz) |
|-------------|---------|----------|----------------------|
| TBHH100-868 | Europe  | 8        | EU868 (862~870)      |
| TBHH100-915 | USA     | 16       | US915 (902~928)      |

\* Samples are also available for IN865, AS923, AU915, KR920.