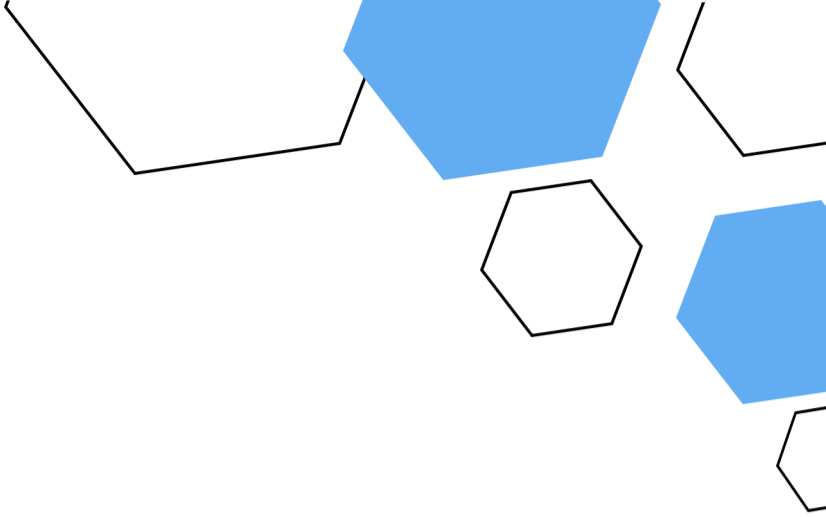




SE72x

Temperature and humidity sensors of LoRaWAN

Specification

1. Product Introduction

1.1. Product Description

The SE72x is a wireless temperature and humidity sensor that measures ambient temperature and humidity using a digital temperature and humidity sensor. The measured values are periodically sent to the application platform via LoRa. Users can flexibly set the sampling period and reporting period through a handheld device or management platform. The default configuration period is 0.5 hours.

1.2. Key Features

- IP65 protection level
- Battery powered
- Low-power LCD display
- Temperature accuracy: $\pm 0.3^{\circ}\text{C}$
- Humidity accuracy: $\pm 3\%\text{RH}$
- 8-10 years of continuous operation life (0.5-hour uplink period)
- Supports US902, AU915, AS923, EU868, EU433, CN470 LoRaWAN standards

2. Product Parameters

2.1 Product Diagram



2.2. Product Specifications

2.2.1. Electrical Parameters

Operating Voltage	1.8~3.6V
Operating Temperature	-40°C~85°C
Operating Humidity	0%~90%RH
Transmit Current	<120mA@100mW (impedance matched)
Receive Current	<13mA

Operating Voltage	1.8~3.6V
Standby Current	<5uA

2.2.2. RF Parameters

Frequency Range	470-510MHz 863-928 MHz (optional)
Transmit Power	19±0.5dBm
Receive Sensitivity	<-139dBm @292bps
Antenna Type	External Antenna
Data Transfer Rate	0.3~4.5 kbps
Modulation Method	LoRa

2.2.3. Technical Indicators

Temperature Measurement Range	-40~85°C
Measurement Accuracy	±0.3°C
Resolution	0.01°C
Humidity Range	0%~90%RH
Accuracy	±3%RH
Resolution	0.1%RH

3. Product Models

SET24-CN470-N	CN470 Standard Version
SET24-EU433-N	EU433 Standard Version
SET28-EU868-N	EU868 Standard Version
SET28-AS923-N	AS923 Standard Version
SET28-AS923-N	AU915 Standard Version
SET28-US902-N	US902 Standard Version

4. Contact Us

Website : www.manthink.cn

Email : info@manthink.cn

Tel : +86 15810684257