LEO-S552-TH

LoRaWAN Temperature/Humidity Sensor

Features

- Supports temperature/humidity sensing
- LoRaWAN technology for efficient long-range wireless data transmissions
- IP67 UV-resistant and waterproof enclosure
- Built-in 2 x 4000 mAh replaceable battery and long battery life
- Equipped with NFC for easily configuration
- Compliant with standard LoRaWAN® gateways and network servers

Specifications

Frequency		US915/AU915/KR920/AS923/CN470
NFC		Y (Configuration)
Button		1 x Power Button (Internal)
Battery		2 x 4000 mAh battery (ER18505)
Battery Life		5 years (10 min interval, @25°C)*
Data Storage Capacity		2800
Working Temperature		-30 ~ 70°C
Working Humidity		0 ~ 100% (non-condensing) at 25°C (77°F)
Wireless Range		100 meters+ (Line of Sight)*
dimension		88.5 x 85.3 x 27 mm (3.48 x 3.36 x 1.06 in)
Weight		130g
IP		67
Certification		FCC, TELEC, CE**, SIRIM, NBTC, RCM
Temperature	Range	-30°C ~ 70°C
	Accuracy	0°C ~ 70°C (± 0.3°C), -30°C ~ 0°C (± 0.6°C)
	Resolution	0.1°C
Humidity	Range	0~100% RH
	Accuracy	10% to 90% RH (±3%), below 10% and above 90% RH (±5%)
	Resolution	0.5%

* Test under laboratory conditions and for guideline purposes only
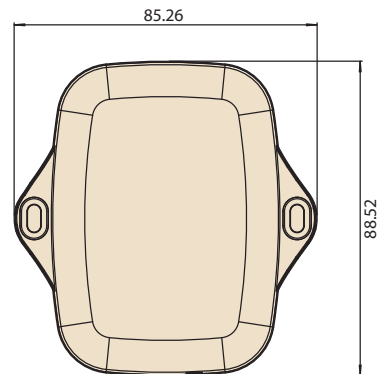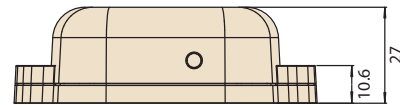**CE by project

Dimensions

Unit: mm

27
10.6
85.26
88.52

Ordering Information

Part Number	Description
LEO-S552-THG0	LEO-S LoRaWAN Temp/Humi sensor 915
LEO-S552-THC0	LEO-S LoRaWAN Temp/Humi sensor 470

Packing List

- 2 x Screw

USM-S67

LoRaWAN Gateway

Features

- Quad-core industrial processor with big memory
- Equip with SX1302 chip, handling a higher amount of traffic with lower consumption
- 8 half/full-duplex channels
- IP65 enclosure and industrial design for parts of outdoor environment applications like eaves
- Desktop, wall or pole mounting
- Multi backhaul backups with Ethernet and Wi-Fi
- Easy and centralized management of remote devices
- Enable security communication with multiple VPNs like IPsec/OpenVPN/ L2TP/PPTP/DMVPN
- Built-in network server and MQTT/HTTP/HTTPS API for easily integration
- Embedded Python SDK for users secondary development
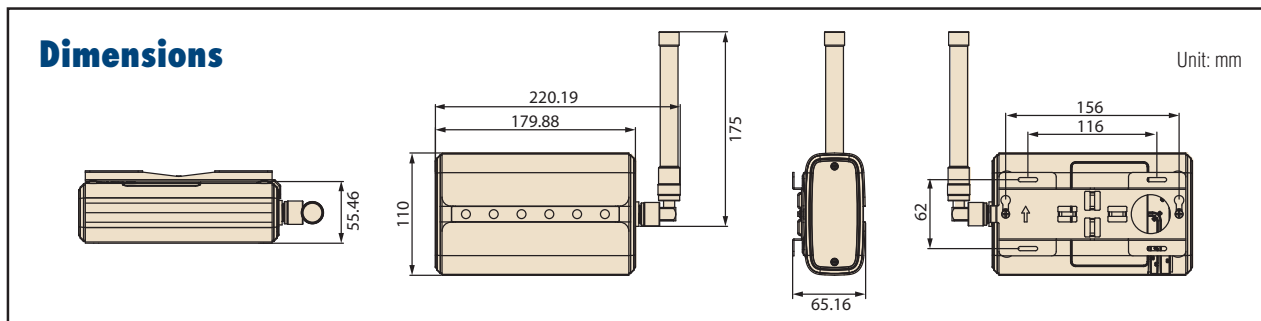- Fast and user-friendly programming by Node-RED development tool

Specifications

General	CPU	Quad-core 1.5 GHz, 64-bit ARM Cortex-A53
	Memory	512 MB DDR4
	Flash	8 GB eMMC
	LED Indicators	1 x POWER, 1 x STATUS, 1 x LoRa, 1 x Wi-Fi, 1 x Ethernet
LoRaWAN	Frequecny	US915/AU915/KR920/AS923/CN470
	Antenna	2 x Internal Antennas 1 x External Antenna
	Wireless Range	100 meters+ (Line of sight)**
	Connect Q'ty	Support up to 100 x LEO-S sensors*
Connectivity	Ethernet	10/100/1000 Base-T
	Wifi	IEEE 802.11 b/g/n, 2.4GHz
Others	Button	1 x Reset Button
	Power	1. DC Jack Connector for 9-24 V_{DC} power supply 2. 1 x 802.3 af PoE input
	Working Temperature	-40 ~ 70°C (-40 ~ 158°F)
	Storage Temperature	-40 ~ 85°C (-40 ~ 185°F)
	Operating Humidity	0 ~ 95% (non-condensing) at 25°C (77°F)
	dimension	180 x 110 x 56.5 mm (7.09 x 4.33 x 2.22 in)
	IP	65
	Certification	FCC, TELEC, CE***, RCM, SIRIM, NBTC

* Dependent on usage scenario
** Test under laboratory conditions and for guideline purposes onl
***CE by project

Dimensions

Unit: mm

220.19
179.88
175
110
55.46
65.16
156
116
62

Ordering Information

Part Number	Description
USM-S67-G0WP0	USM-S67 LoRaWAN & WIFI Gateway 915
USM-S67-C0WP0	USM-S67 LoRaWAN & WIFI Gateway 470

Packing List

- 1 x LAN Cable(1.5M)
- 1 x Adapter
- 1 x Mounting Bracket
- 2 x Mounting Kits
- 1 x LoRaWAN Antenna

USM-S67

LoRaWAN Compact Gateway

Features

- Support 8 half/full-duplex channels
- Enable security communication with multiple VPNs(IPsec/OpenVPN/L2TP/ PPTP/DMVPN)
- Detect and analyze the noise level and provide intuitive diagram for deployment
- Built-in network server and MQTT/HTTP/HTTPS API for easily integration

Specifications

General	CPU	528 MHz, ARM Cortex-A7
	Memory	256 MB DDR4
	Flash	4 GB eMMC
	LED Indicators	1 x SYS, 1 x LoRa
LoRaWAN	Frequecny	US915/AU915/KR920/AS923/CN470
	Antenna	2 x Internal Antennas
	Wireless Range	100 meters+ (Line of sight)**
	Connect Q'ty	Support up to 20 x LEO-S sensors*
Connectivity	Ethernet	10/100 Base-T
Others	Button	1 x Reset Button
	Power	1.802.3 af PoE input 2.5V/1A by Type-C Port
	Working Temperature	-20 ~ 50°C (-4 ~ 122°F)
	Storage Temperature	-40 ~ 85°C (-40 ~ 185°F)
	Operating Humidity	0 ~ 95% (non-condensing) at 25°C (77°F)
	dimension	Ø115 x 21 mm (Ø4.52 x 0.83 in)
	IP	30
	Certification	FCC, TELEC, CE***

* Dependent on usage scenario
** Test under laboratory conditions and for guideline purposes only
***CE by project

Ordering Information

Part Number	Description
USM-S67-G00P0	USM-S67 LoRaWAN Gateway 915
USM-S67-C00P0	USM-S67 LoRaWAN Gateway 470

Packing List

- 2 x Mounting Kits

Dimensions

Unit: mm

24
21
87
n3.5
n115