

# LEO-S550-DA

## LoRaWAN DAQ Controller



### Features

- Easy to connect with diverse wired devices through DIO/AI/RS232/RS485/PT100 RTD input interfaces
- Multiple triggering conditions and actions
- Embedded watchdog for device working stability
- Industrial metal case design with wide working temperature
- Compliant with standard LoRaWAN® gateways and network servers

### Specifications

Frequency	US915/AU915/KR920/AS923	
LED	1 x System, 1 x ACT	
Working Temperature	-20°C ~ 60°C	
Working Humidity	0 ~ 95% (non-condensing) at 25°C (77°F)	
Wireless Range	100 meters+ (Line of Sight)*	
Dimension	93 x 70 x 22 mm (3.66 x 2.76 x 0.87 in)	
Weight	470g	
IP Rating	IP30	
Certification	FCC, CE**	
Power	5-24 V <sub>DC</sub>	
Power Interface Type	3.5mm Terminal Block	
I/O	Port	Type-C (Configuration)
	Ports	4 x DI + 2 x DO
	Digital Input	Opto-isolated Digital Inputs, 3-24V <sub>DC</sub> (pulse counter support)
	Digital Output	SPDT Relay Contact Rating: 3A@DC Max: 30 V or AC Max: 250 V
Serial Port	Ports	1 x RS232 + 1 x RS485
	Baud Rate	1200-115200 bps
	Protocol	Transparent (RS232), Modbus RTU (RS485)
Analog Input	Ports	2 x 4-20 mA + 2 x 0-10 V
	Resolution	12 bit
Analog Input (RTD)	Ports	2 x PT100 RTD Input
	Input Connections	2, 3-wire
	Resolution	12 bit
	Range	-200°C ~ 800°C

\* Test under laboratory conditions and for guideline purposes only

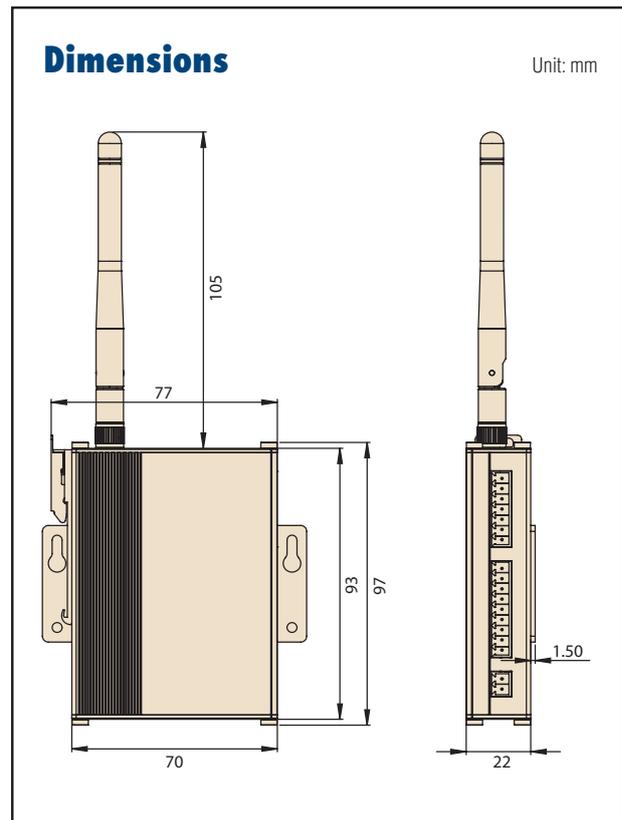
\*\*CE by project

### Ordering Information

Part Number	Description
LEO-S550-DAG0	LEO-S LoRaWAN DAQ Controller 915

### Dimensions

Unit: mm



### Packing List

- 1 x LoRaWAN Antenna
- 1 x Power Adapter
- 5 x Terminal Blocks
- 1 x DIN Rail Mounting Clip
- 4 x Wall Mounting Kits
- 4 x Fixing Screws

# 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

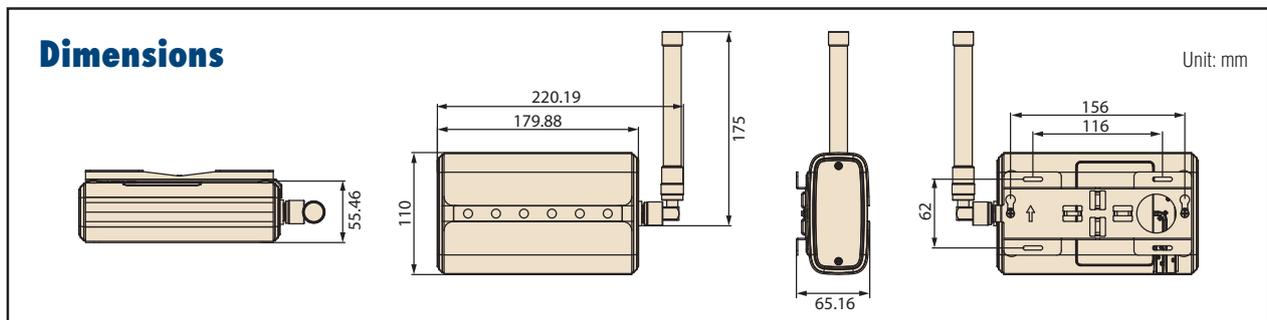
### Specifications

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	Frequency	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 <sub>DC</sub> 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 only

\*\*\*CE by project



### Ordering Information

Part Number	Description
USM-S67-GOWPO	USM-S67 LoRaWAN & WIFI Gateway 915
USM-S67-COWPO	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	Frequency	US915/AU915/KR920/AS923/CN470
	Antenna	2 x Internal Antennas
	Wireless Range	100 meters+ (Line of sight)**
Connectivity	Connect Q'ty	Support up to 20 x LEO-S sensors*
Others	Ethernet	10/100 Base-T
	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

