

# SICE LoRaWAN PRODUCT SPECIFICATIONS

**MODEL: ATRS0009** 

**LoRaWAN**<sup>™</sup> **Tracker** 



## **SICE Telecomunicazioni**

Via Tazio Nuvolari 53 - 55061 Carraia -Lucca, Italy Tel: (+39) 0583 980787 www.sicetelecom.it | info@sicetelecom.it



#### Introduction:

LT-100 is a LoRaWAN<sup>™</sup> compliant RF tracker which includes Asia's first LoRaWAN<sup>™</sup> certified module. It is designed for asset tracking, pet tracking, and personal monitoring of children and elderly. It has built-in help button for emergency report which allows immediate notification to the care giver/ monitor. It is also equipped with a high capacity battery which avoids the need of frequent charging. The device is also equipped with high capacity battery. LT-100 is fully compatible with LoRaWAN<sup>™</sup> compliant gateways, making it the #1 choice for tracking application under the LoRaWAN<sup>™</sup> network.

#### **Product Features:**

- LoRaWAN<sup>™</sup> compliant
- Support Fall Advisory
- Built-in help(SOS) button for Emergency situation
- Support Paging
- Built- in 3 axis accelerometer for motion sensing capability
- Vibrating alert/ Buzzer alert
- Support Class A/ Class C
- Power Low/ Off alert
- Charging clip with I/O pin connected charging
- Support Collar accessory
- Configurable periodic report
- Support motion detection
- Support both OTAA and ABP mode
- Regular/ Real-time tracking by remote configuration



H/W Specifications	
LoRa® Module	130H
LoRa® Frequency	EU 868 MHz (Model : LT-100E)
	US 915 MHz/ AS 923 MHz (Model : LT-100H)
LoRa® Antenna	Built-in Pi-Fa antenna
MCU	STM32
Internal Flash	256Kbytes
External Flash	32Mbytes
GPS	MTK MT-3339
GPS Antenna Type	Patch Antenna 18.2 x 18.2 x 2 mm
GPS Time Zone	Time Zone (set by config)
G-Sensor	3-Axis G-Sensor
Sound Effect	Buzzer
	LED X 4: Power LED / GPS LED / LoRa® LED / Reserve LED
	Power LED : Red & Orange LED in one package
	low battery -> Red (always on)
	charging -> Orange (blink every 2sec)
LED Indicator	charging full -> Orange (always on)
	GPS LED : Green
	GPS unfix : quick blink every 1 sec
	GPS fix : blink every 3 sec
	LoRa® LED : Blink Orange at 0.2 sec interval during TX/ RX
Interface	I/O PIN
FW update	FW upgrade via I/O PIN
Transmission Power	100 mW (max.)
Receiving Sensitivity	-132 dBm @ 980 bps
Transmission Distance	1KM~10KM (980 bps)
Battery	Re-chargeable Li-polymer battery 820mAh
Operating Temperature	With Battery:
	Charge: 0~45 °C
	Operation: -20~ 60°C
	Storage: -20~80°C
Humidity	5% to 95% Non-condensing
Charging	I/O PIN Charging Cable
Button	Power button (Power/ Reset in one button)
	Help button



H/W Specifications		
Vibrator	Built in vibrator for vibration alert	
Dimension	69.5 x 45.5 x 19.6 ± 0.15 mm	
Weight	56.5 ± 2 g	
Accessories	I/O Charging Cable	
	Lanyard, Clip-on belt pouch (optional)	
	Collar accessory (optional)	
	USB A Type AC adaptor 5V1A (optional)	
	Multiple Charging Base Station (optional)	
Certification	CE, FCC, IC, Telec	
Waterproof	IPX7 Equivalent	

### **Power Button Behavior:**

- Device off: Short press, red led light on for 3 seconds.
- Device on: Short press to blink red led 3 times. (bright 0.2 second, dim 0.2 second, bright 0.2 second, dim 0.2 second, bright 0.2 second, dim 0.2 second)