



Product Specifications

LoRaWAN™ Flexible Tracker

LT-501R Series

VER: 1.0



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Introduction

LT-501R series is a RF network tracker specifically designed for both indoor and outdoor monitoring on objects. It is compact, light, and easy to use. The series is also equipped with the replaceable battery to provide basic power usage. The device allows monitoring center to remotely configure and track the device immediately or periodically by sending RF commands to the device. **Geo-fence configuration is also available to create permissible areas or restricted areas to provide more flexible monitoring options of the device.** (Geo-Fence needs to be done by Application Server, includes outdoor and indoor geo-fence)

Product Features

- Support LoRaWAN™ Class A/ Class C
- Outdoor / Indoor geo-location
- Long-distance transmission
- Regular/ Real-time tracking by remote configuration (Report interval, Enable/ Disable GPS, Buzzer, Ping)
- Built- in 3 axis accelerometer for motion detector
- Built in BLE for beacon (Indoor positioning)
- Configurable setting via BLE
- Support buzzer for alert
- Power Low/ Off alert
- Support Geo-fencing functions (need to be done by AS/ EzFinder side)
- Support help report
- Micro USB connector
- Built- in watchdog

H/W Specifications	
LoRa [®] Chipset	Semtech SX-1276
LoRa [®] Antenna	Internal LoRa [®] antenna
LoRa [®] Frequency	LT-501RH: US 915 MHz/ AS 923 MHz LT-501RE: EU 868 MHz
MCU	STM3
BLE	Nordic BLE for slave mode
BLE Antenna	Internal BLE antenna
GPS Antenna Type	Patch antenna (size: 18 × 18 × 2 mm) / MMCX Connector (External)
Button	Power button x 1 (Power/ Reset in one button) Function button x 1 (Help report)
Sensor	3-Axis accelerometer
Sound Effect	Buzzer (Film, 68 ± 3 dB @ 1M)
LED Indicator	LED X 4 : ● Power LED (Low battery) : Red ● GPS LED : Green ● LoRa [®] LED (Transmitting) : Yellow ● BLE LED (Transmitting) : Blue
I/O	Micro USB with rubber cover
Operation Voltage	DC 3.3 ~ 4.3V USB 4.5 ~ 5.5V
Transmission Distance	LoRa [®] : 1 ~10 KM @ 980 bps BLE (Open sides): 35 M
Receiving Sensitivity	-128 dBm @ 980 bps (typical)
Battery	Replaceable battery 19A
Battery Life (Reference only)	130 days operation (5mins GPS report interval)
Operating Temperature	With Battery: Operation: -20 ~ 60 °C Storage: -20 ~ 80 °C
Humidity	5 ~ 95% (Non-condensing)
Adaptor Type	USB A type
Dimension	84 × 69.6 × 52.8 ± 0.15 mm
Weight	98 ± 5 g (without battery) 200 ± 10 g (with battery)
Accessories	Standard Micro USB Cable

H/W Specifications	
	19A Battery (Optional) External GPS Antenna (Optional) 3mm Steel Plate (Optional)
Certification	CE, FCC, TELEC, LoRaWAN Certification
Waterproof	IPX7 Protected with rubber cover sealed

LT-501R Series

84 × 69.6 × 52.8 ± 0.15 mm

