

GLOBALSAT WORLDCOM CORPORATION

PRODUCT SPECIFICATIONS

MODEL: LT-100

LoRaWAN Tracker

Document Version: V1.0



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Introduction:

LT-100H is a LoRaWAN compliant RF Tracker which includes Asia's first LoRaWAN certified module by Globalsat. 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 allows up to 5 Weeks (report every 0.5hr) of usage without charging. LT-100H is fully compatible with LoRaWAN compliant gateways, making it the #1 choice for tracking application under the LoRaWAN network.

Product Features:

- LoRaWAN compliant
- Built- in 3 axis accelerometer for motion sensing capability
- Vibrating alert / Buzzer alert
- Power Low/Off alert
- Built-in help button for Emergency situation
- Charging clip with I/O pin connected charging
- Support Collar accessory.
- Support motion detect.
- Configurable periodic report
- Support both OTAA and APB mode

H/W Specifications	
LoRa Chipset	Semtech SX-1276
LoRa Frequency	865~868MHz (Model : LT-100E) 902~928MHz (Model : LT-100H)
RF Band	868/915 MHz
LoRa Antenna	Built-in Pi-Fa antenna
MCU	STM32F103
Internal Flash	256Kbytes
External Flash	32Mbytes
GPS	MTK MT-3339
GPS Antenna Type	Patch Antenna 18.2*18.2*2mm
GPS Time Zone	Time Zone (set by config)
G-Sensor	3-Axis G-Sensor
Sound Effect	Buzzer
LED Indicator	<p>LED X 4 : Power LED / GPS LED / LoRa LED / Reserve LED</p> <p>Power LED : Red & Orange-LED in one package, low battery -> Red (always on) charging -> Orange (blink every 2sec) charging full > Orange (always on)</p> <p>● GPS LED : Green GPS unfix : quick blink every 1 sec GPS fix : blink every 3 sec</p> <p>LoRa LED : Blink Orange at 0.2 sec interval during TX/RX</p>
Interface	I/O PIN
FW update	FW upgrade via I/O PIN
Battery	Re-chargeable Li-polymer battery 820mAh
Battery life	5 Weeks (report every 0.5hr)
Operating Temperature	<p>With Battery:</p> <p>Charge: 0 ~ 45 °C Operation - 20 ~ 60°C Storage: -20~80°C</p>
Humidity	5% to 95% Non-condensing
Charging	I/O PIN Charging Cable
Button	Power button (Power/ Reset in one button) Help button
Vibrator	Built in vibrator for vibration alert

H/W Specifications	
Dimension	69.5*45.5*19.6 ±0.15 (mm)
Weight	56.5 ±2g
Accessories	I/O Charging cable Lanyard (option) Clip-on belt pouch (optional) Collar accessory (option) USB A Type AC adaptor 5V1A (optional) Charging clip for long time charging usage External power bank support (optional) Charging Stand (TBC)
Certification	CE, FCC
Waterproof	IPX7 Protected

Power Button Behavior:

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

