

GLOBALSAT WORLDCOM CORPORATION

PRODUCT SPECIFICATIONS

MODEL: LT-100
LoRaWAN™ Tracker
Document Version: V1.4



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Introduction:

LT-100 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 avoids the need of frequent charging. The device is also equipped with high capacity battery. LT-100 is fully compatible with LoRaWAN™ compliant gateways, making it the #1 choice for tracking application under the LoRaWAN™ network.

Product Features:

- LoRaWAN™ compliant
- Support Class A/ Class C
- 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
- Configurable periodic report
- Support motion detection
- Support both OTAA and ABP mode
- Regular/ Real-time tracking by remote configuration (TBD)

H/W Specifications	
LoRa™ Module	GlobalSat Module LM-130H
LoRa™ Frequency	865~868MHz (Model : LT-100E) 902~928MHz (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*18.2*2mm
GPS Time Zone	Time Zone (set by config)
G-Sensor	3-Axis G-Sensor
Sound Effect	Buzzer
LED Indicator	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) 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 (980bps)
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*45.5*19.6 ±0.15mm
Weight	56.5 ±2g
Accessories	I/O Charging Cable Lanyard, Clip-on belt pouch (optional) Collar accessory (optional) USB A Type AC adaptor 5V1A (optional) 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 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)