



## Product Specifications

# LoRa<sup>®</sup> Pocket Gateway

**LG-M202 series**

**VER: 1.3C**



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## Introduction

LG-M202 is a LoRa® to BLE signal transformer, it's used as a gateway for mobility purpose. With the low power-consuming feature and half-duplex technique, it can wirelessly transmit data to long-distance.

GlobalSat provides utilities for iOS/ Android that allows users to send and receive LoRa® command/ data from mobile devices via BLE to end-node devices. Due to its compact size, LG-M202 can be put in the pocket simply and powered by the internal battery or hang on wall using USB power.

The LoRa® pocket gateway LG-M202 is designed for P2P pet tracking, group security monitoring of school students/ elders/ workers/ mountain climbers and sensor applications.



## Product Features

- Support GlobalSat proprietary MOST-Link protocol and M.O.S.T transparent communication mode
- Configurable setting via BLE. BLE connectivity with mobile devices at slave mode
- Two LoRa channels, 1 for Tx/ Rx, 1 for Rx only, based on SX-1272
- Support setting various parameters like baud rate, transmission power, transmission speed, etc
- BLE built- in watchdog

<b>H/W Specifications</b>	
<b>LoRa<sup>®</sup> Chipset</b>	Semtech SX-1272 x 2 (2 channels)
<b>LoRa<sup>®</sup> Antenna</b>	Built-in hauls antenna
<b>Frequency</b>	865~868MHz (Model : LG-M202E) 902~928MHz (Model : LG-M202H)
<b>BLE Chipset</b>	Nordic nRF51822
<b>BLE Antenna</b>	Built-in chip antenna
<b>MCU</b>	STM32
<b>Sound Effect</b>	Buzzer (60±3dB @ 1M)
<b>Battery</b>	Rechargeable Li-ion battery 500 mAh
<b>Charging</b>	5V/ 0.5A
<b>LED Indicator</b>	Power LED : Green & Red LoRa <sup>®</sup> LED : Yellow BLE LED : Blue
<b>Interface</b>	Micro USB
<b>Operation Voltage</b>	3.5V ~ 4.3V USB 4.5V ~ 5.5V
<b>Current Consumption</b>	Receiving: 30 mA (typical) Transmitting: 120 mA (typical)
<b>Transmission Distance</b>	Under open sky without interference : LoRa <sup>®</sup> : 3 KM BLE : 10 M
<b>Receiving Sensitivity</b>	-128dBm @ 0.81Kbps (TBC)
<b>Operation Temperature</b>	-20°C ~ 60°C (Battery Discharge) 0°C ~ 45°C (Charging)
<b>Humidity</b>	5%~95% (Non-condensing)
<b>Waterproof</b>	IPX6

<b>Dimension</b>	67 x 40 x 13 ± 0.15 mm
<b>Weight</b>	32 ± 1 g

**Accessory** (Holder, Optional)



Front



Back



Bottom



Front



Left



Back



Bottom

L\*W\*H=53.1\*44.8\*19.5mm