



1. Description

GF8945 is a low power consumption LoRa based GPS tracking device equipped with a rechargeable battery for asset tracking. Support LoRaWAN protocol or private protocol. Build in BLE chip allow GF8945 pairs with your smart phone, text and share GPS location among other GF8945 users through LoRa network.



Application

- Outdoor Adventure: Stay connected in remote areas when cell service is down, share gps locations and send SOS if you get into trouble.
- Locate and track children, elderly and disabled people, prevent them from missing, send SOS in emergency.
- Group management: GF8945 allows you to keep track of all members of your group within the field in real time
- Asset tracking: GF8945 can be used to track pets, vehicle, fleet, parcels or bags.

Product variants

No.	Model	Description	Remark
1	GF8945-W	433MH , Suitable for China &Europe	
2	GF8945-C	470~510MHz , Suitable for China	
3	GF8945-E	863~870MHz , Suitable for Europe	
4	GF8945-U	902~928MHz , Suitable for America, Australia, Asia, Korea, Japan etc	

Table 1.1 Product variants



2. Specification

Parameters	Specification			
Frequency Band	EU868MHz/US915MHz/AS923MHz/ CN470MHz , optional			
Battery Specs	Build in recharge Li-ion battery,1300mAh			
Battery Life	8 hours , standby time 40h			
Operating Temperature	-20~65℃			
Dimensions	100*33*20mm (Weight 80g)			
Modulation	LoRa Modulation Patented by Semtech			
Transmit Power	+27dBm			
Bluetooth	BT 4.0			
GPS positioning solution	REALTEK MG1009R,Sensitive down to -148dB			
GPS accuracy	5 ~ 10 Meters			
Communication range	1~5KM in dense environment , 6~15KM LoS			
Data upload rate	Customized			

3. Features

- ✓ Communicate Via LoRa , no SIM card required
- ✓ Build in BLE
- ✓ Support Off Line Map , SOS , Geo-fencing & Message
- ✓ Long Battery life
- ✓ Easy to install on any object

4. Housing

4.1 LED Indicator

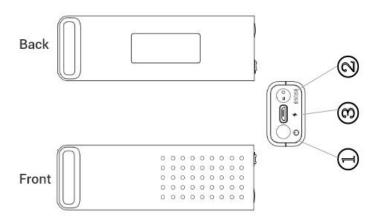




Indicator	State	LED	Remark
	Power off	All Indicators not lit	
Dannan in di aatan	Charging	Red blinking	
Power indicator	Low power	Red blinking quickly	
	Full of charge	Red constantly lit	
Divista eth in diesten	Bluetooth disabled	Blue blinking quickly	
Bluetooth indicator	Bluetooth enabled	Blue constantly lit	
La Da indicatan	Data transmitting	Green blinking quickly	
LoRa indicator	LoRaWAN [™] network connected	Green constantly lit	

Table2.1 Indicator description

4.2 Buttons



No,	Function	Description		
1	Power button	Power on: Press the power button 1 seconds, red indicator lit		
		Power off: Press and hold power button 3 seconds , all indicators extinguish		
2	SOS button	Press and hold SOS button 5 seconds to send SOS message		
3	USB port	Charging through Micro-USB cable		
		Upgrade through Micro-USB cable		

Table2.2 Button description

5. Operation Guide (Point2Point communication)

5.1 Power on

Press the power button 1 second to power on the device, LED indicator lit.

5.2 Pair with Smart phone



1. Install the COMPASS app from the App store to your respective iOS or Android device.

Apple store search" naviecare"

Android download link:

http://www.pgyer.com/8Dd1

Code :lora

2. Follow the instructions within the app to setup your COMPASS. (For more details pls check the APP instructions.)

3. Operation Guide (LoRaWAN™)

3.1 Activation method

- OTAA(Over-The-Air Activation) (by Default)
- ABP(Activation By Personalisation)

3.2 Payload protocol

Pls take reference to the DOC 《GF8945 Payload protocol V1.3.0 》

4. Package

Model	Package	QTY	Dimensions	G.W	Accessories
Compass	Gift box Package	1pcs/box	12*5*3CM	80g	Micro USB cable