



## Off-Grid Communication Device (Mi-OGC)

Mi-OGC enables communication between smartphones without the need for cellular or WiFi network. It is designed to work in the ISM 900MHz band. Point-to-point communication is up to 5km LOS, with mesh networking allowing it to be extended over longer distances.

### Overview

Mi-OGC is a device that connects to your existing smartphone and enables it to communicate with other smartphones when there is no cellular service or WiFi network. It allows you to send and receive voice and text messages, use offline map, share location with other Mi-OGC users within range, as well as a backup battery for your smartphone.

Mi-OGC has a point-to-point range of up to 5km LOS. With mesh networking, this communication link can be further extended.

### Features

Mi-OGC comprises the following features:

- **ISM 900MHz Band**  
Better wave propagation hence longer communication range in 900MHz band.
- **Audio and Text Messaging**  
Free audio and text messaging, independent of any cellular or data carrier charges.
- **Navigation and Emergency Location Beacon**  
Offline map, location sharing, emergency location beacon are among the many useful navigation features of Mi-OGC.
- **Mesh Networking**  
Extended communication range, useful in LOS and NLOS situation.
- **Water Resistant and Dust Tight (IP65)**  
Mi-OGC can be deployed in harsh outdoor or stringent indoor environments for a reliable communication.
- **Rechargeable 3000 mAH Battery**  
Keep your phone fully charged, anywhere, anytime.

### Technology Benefits

The benefits of Mi-OGC are:

- **Community Networking**  
Enables the local community to be always connected and informed at all times.
- **Emergency Network**  
Mi-OGC is a standalone device that works independent of the cellular or WiFi network.
- **Secure Communication**  
The audio and text messages sent through Mi-OGC are encrypted for secure communication.
- **Safety**  
Be able to communicate anywhere, anytime.

### Technology Summary

#### Mi-OGC

Device for off-grid communication during unavailability of cellular service or WiFi.

**Industries:** Security and Public Safety, Local Community, Outdoor Enthusiasts, Event Management

#### Features

- ISM 900MHz band
- Audio and text messaging
- Navigation and emergency location beacon
- Mesh networking
- Water resistant and dust tight (IP65)
- Rechargeable 3000 mAH battery

#### Technology Benefits

- Community networking
- Emergency network
- Secure communication
- Safety



Mi-OGC (illustration purposes only)

### Specifications

Mi-OGC	
System Specifications	
Compatibility	Android 5.1 (Lollipop) minimum
Bluetooth	BLE 4.1
Radio Specifications	
Frequency Band	ISM 900MHz Band (919 - 923 MHz)
Modulation	GFSK
RF Output Power	+26.5 dBm
Receive Sensitivity	-110 dBm