Manuals+ — User Manuals Simplified.

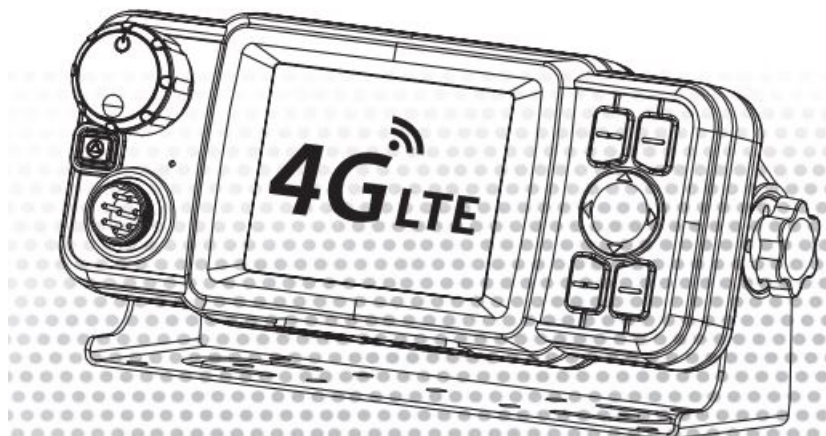# SFE SEM1000 In-Vehicle POC Network Mobile Radio Instruction Manual

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SFE SEM1000 In-Vehicle POC Network Mobile Radio Instruction Manual

Quanzhou SFE Electronic Technology Co.,Ltd
Add: 35 Yangming Rd., Qianyang Industrial Zone,
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362000, China

Web: **www.sfecom.cn**

Welcome to use SFE two-way Radio
To Customers
Thank you very much for using SFE two-way radio, a truly versatile, compact and durable radio that will provide reliable and high quality communication. Before operation and to obtain the best performance, please read this manual carefully to become familiar with the radio's features and uses.

User Safety Information

Before using your new SFE POC network radio, please read the following safety recommendations carefully:

- Do not attempt to repair, disassemble or re-assemble the radio.
- Repair should only be carried out by a qualified Radio Engineer.
- In order to avoid electromagnetic interference, please turn off the radio in any areas where radio transmissions are not permitted e g. Hospitals, Aircraft, etc
- Do not place a radio in any area over, or in the deployment area of an Air Bag within a vehicle.
- Never operate the radio in potentially flammable and explosive atmospheres.
- Never replace or charge batteries in potentially flammable and explosive atmospheres.
- Do not operate the radio if its antenna is damaged
- Do not place the radio in excessive y dusty, humid, and/or wet areas.
- Do not expose the radio to long periods of direct sunlight, for example on the dashboard of a vehicle or close to heating appliances.
- Keep a distance of at least 20 cm between the antenna and your head and body when transmitting

Supplied Accessories

Please open the box carefully and check that the following items are included. If you find any items are missing or have been damaged during shipment, please contact your SFE dealer immediately.
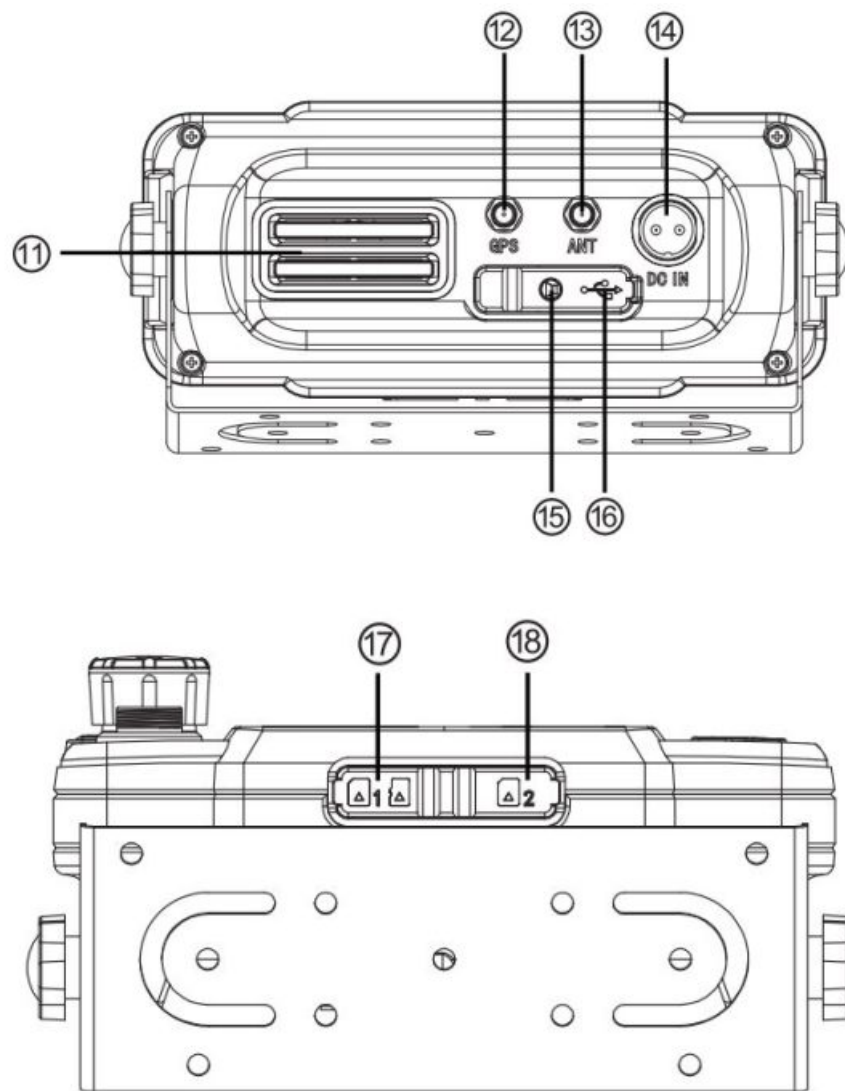
Equipment and Accessories Supplied:

ITEM	QUANTITY
In-vehicle Radio Body	x1
4G Antenna	x1
GPS Antenna	x1
Power Supply Cable	x1
Metal Bracket	x1
Speaker MIC	x1
Instruction Manual	x1

Getting Acquainted

Diagram
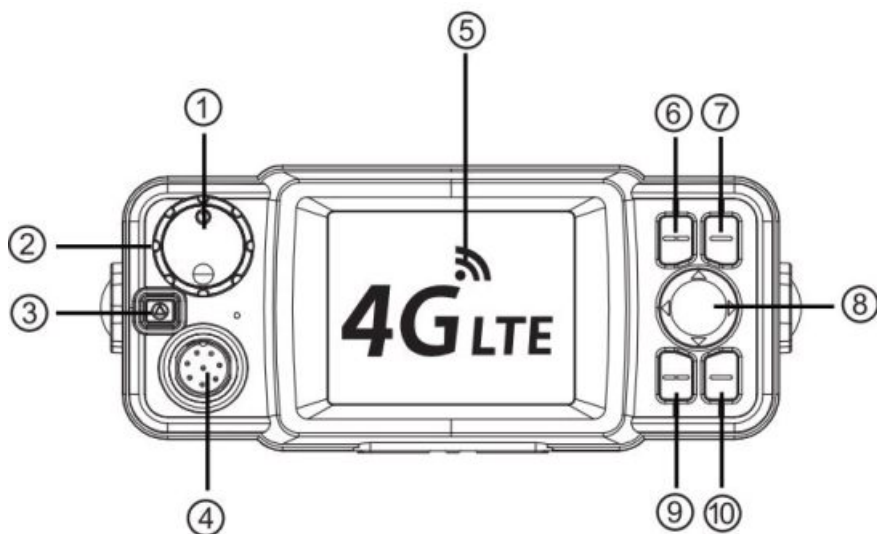
1. **Volume Control Knob & Power ON/OFF Button**

   Please long press it to power ON or power OFF the radio. Turn the volume knob clockwise to increase the volume level, turn the volume knob counter-clockwise to reduce the volume level.

2. **LED Indicator**

   It lights Yellows for few seconds during power on. It lights RED during transmitting.
   It lights GREEN during the receiving.

3. **Emergency Alarm**   Please long press this

   button to activate the emergency alarm/SOS function, long press again to
   exit.

4. **Speaker MIC Connector**

Please insert air plugs MIC speaker with 8 pinholes, press and hold the PTT button, the radio will bleep and LED indicator will turn RED (that meanstransmitting is valid),then speak clearly into the microphone with your normal voice(remember to keep the MIC around 2.5~5CM from your mouth)

5. **LCD Display**

   Kindly note: this is non-touching screen.

6. **Functional Key.**

   Please short press to UP the groups and long press to enter into Network Mode selection

7. **Functional Key**

   Please short press to DOWN the groups and long press to switch the Backlights Mode.

8. **UP/DOWN/LEFT/RIGHT Key**

   Please press it to choose the desired items from menu.

9. **Menu Key(Green –)**

10. **Backup Key(Red -)**

11. **MIC Speaker**

12. **GPS Antenna Connector**

13. **4G Antenna Connector**

14. **Power Supply Connector**

    Kindly note: Please connect to 12V/24V AC Power from car.

15. **Headset/Earpiece Connector**

16. **Micro USB Programming Cable Connector**   Please long press functional key – – and functional key – at the same time and turn ON the radio device, it will enter into writing mode

17. **SIM CARD 1**

    Kindly note: It only supports Micro sim card.

    Please refer to the corner, aware inserting the sim card in right side.

18. **SIM CARD 2**

    Kindly note: It only supports Micro sim card.

    Please refer to the corner, aware inserting the sim card in right side.

LCD Display

 Carrier Network Signal Strength.It indicates valid carrier network signal strength

4G Current Network Mode. Please long press functional key - - to enter intonetwork mode settings.

 SIM Card Indicator: Current working on SIM CARD 1

Ⓐ Backlight Auto Mode.

)0·00 Diplay current local time indicates backlight always ON.

 Current Group Name

Tue Current Week Day

 Current Own User Name
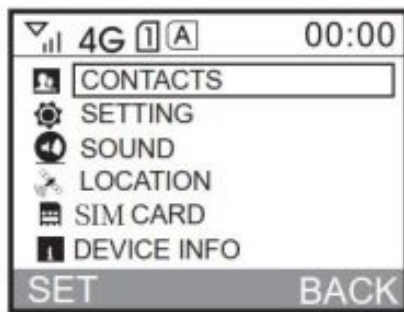
2020–07–015 Current Date

Idle Status

Transmitting Status
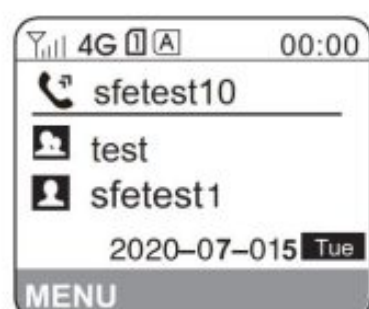
Receiving Status

Menu Function Operation

■ Basic Settings

```
▽ıl 4G 1A            00:00
👤 CONTACTS
⚙ SETTING
🔊 SOUND
🚴 LOCATION
💾 SIM CARD
📇 DEVICE INFO
SET              BACK
```

■ Contracts

```
Yıl 4G 1A            00:00
👥 GROUPS
👤 MEMBERS
👤 GOOD FRIENDS
SET              BACK
```

■ Group Call

1.Press ⊟ to enter into MENU list

2.Select [CONTRACTS] and press ⊟ to confirm and enter;

3.Select [GROUPS]and press ⊟ to confirm and enter;

4.Press ◯ to select target group and press ⊟ to confirm.

(△ UP, ▽ DOWN, ◁ revert to front page, ▷ revert to

next page)
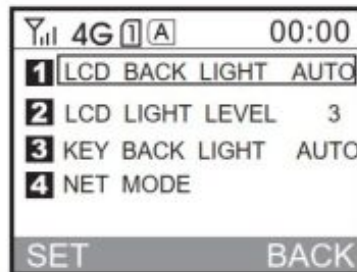
■ Individual Call/Single Call

1.Press ⊟ to enter into MENU list

2.Select [CONTRACTS] and press ⊟ to confirm and enter;

3.Select [GROUPS]and press ⊟ to confirm and enter;

4.Press ◯ to select target group and press ⊟ to confirm.

(△ UP, ▽ DOWN, ◁ revert to front page, ▷ revert to

next page)

■ Good Friends Call

1.Press ⊟ to enter into MENU list

2.Select [CONTRACTS] and press ⊟ to confirm and enter;

3.Select [GROUPS]and press ⊟ to confirm and enter;

4.Press ◯ to select target group and press ⊟ to confirm.

(△ UP, ▽ DOWN, ◁ revert to front page, ▷ revert to

next page)

■ Settings

```
Yıll 4G 🗓 Ⓐ              00:00
1 LCD  BACK  LIGHT    AUTO
2 LCD  LIGHT  LEVEL       3
3 KEY  BACK  LIGHT    AUTO
4 NET  MODE

SET                      BACK
```

■ LCD Backlight

1.Press ⊟ to enter into MENU list;

2. Select [SETTINGS] and press ⊟ to confirm and enter;

3.Select [LCD BACK LIGHT] and press ⊟ to confirm and enter;

4. Press ⊟ to switch between Ⓐ (Auto Mode) and ☼ (Always ON)

■ LCD Light Level

1.Press ▤ to enter into MENU list,

2.Select [SETTINGS] and press ▤ to confirm and enter;

3. Select [LCD LIGHT LEVEL] and press ▤ to confirm and enter;

4.Press ◁▷ to select the desired backlight level (Range from level

 1~level 5).

■ Key BackLight

1.Press ▤ to enter into MENU list,

2.Select [SETTINGS] and press ▤ to confirm and enter;

3.Select [KEY BACK LIGHT] and press ▤ to confirm and enter;

4.Press ▤ to switch between AUTO and ON.

## ■ Network Mode

1.Press ▤ to enter into MENU list,

2.Select [SETTINGS] and press ▤ to confirm and enter;

3.Select [NETWORK MODE] and press ▤ to confirm and enter;

4.Press ▲▼ to switch between 4G Only,3G Only,2G Only and

AUTO mode.

■ Sound

```
┌─────────────────────────────┐
│ Yₙₗ 4G ①Ⓐ           00:00  │
│ ❶ Key  Tone            Set  │
│ ❷ Talk  Tone           Set  │
│ ❸ Voice code           4K   │
│ ❹ MIC  Gain            3    │
│ ❺ SPK  Gain            3    │
│ SET                   BACK  │
└─────────────────────────────┘
```

■ Key Tone

1.Press ⊟ to enter into MENU list,

2.Select [SOUND] and press ⊟ to confirm and enter;

3.Select [KEY TONE] and press ⊟ to confirm and enter;

4.Press ⊟ to switch ON or OFF.

■ Talk Tone

1.Press ⊟ to enter into MENU list,

2.Select [SOUND] and press ⊟ to confirm and enter;

3.Select [KEY TONE] and press ⊟ to confirm and enter;

4.Press ⊟ to switch ON or OFF.

■ Voice Code

1.Press ⊟ to enter into MENU list,

2.Select [SOUND] and press ⊟ to confirm and enter;

3.Select [VOICE CODE] and press ⊟ to confirm and enter;

4.Press ⊟ to switch between 4K and 8K

■ MIC Gain

1.Press ⊟ to enter into MENU list,

2.Select [SOUND] and press ⊟ to confirm and enter;

3.Select [MIC GAIN] and press ⊟ to confirm and enter;

4.Press ⊟ to select the desired MIC gain level. (Range from level 1~ level 6)

■ SPK Gain

1.Press ⊟ to enter into MENU list,

2.Select [SOUND] and press ⊟ to confirm and enter;

3.Select [SPK GAIN] and press ⊟ to confirm and enter;

4.Press ⊟ to select the desired speaker gain level.

(Range from level 1~ level 6)

■ GPS Function
Location

```
Yıl 4G 1 A              00:00
View:
COG:
SPD:
ALT
LAT:
LON:
SET                      BACK
```
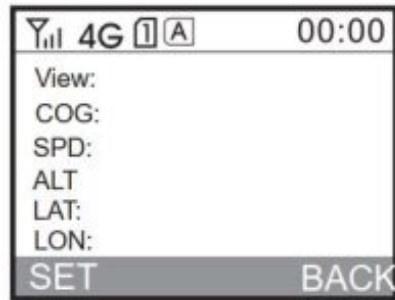
1.Press 吕 to enter into MENU list,

2.Select [LOCATION] and press 吕 to confirm and enter.

■ SIM CARD

```
Yıl 4G 1 A              00:00
1  SIM  CARD  1
2  SIM  CARD  2
3  AUTO                    ←

SET                      BACK
```

1.Press 吕 to enter into MENU list,

2.Select [SIM CARD] and press 吕 to confirm and enter;

3.Press ↕ to switch between SIM CARD 1, SIM CARD 2 and AUTO.

■ Device Info

```
Yıl 4G 1 A              00:00
SOFT  Ver: GV7.A.2  ZZD

SET            BACK
```
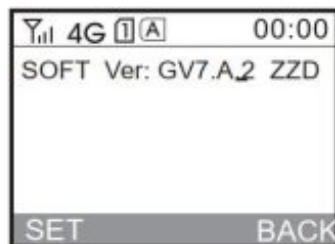
1.Press 吕 to enter into MENU list,

2.Select [DEVICE INFO] and press 吕 to confirm and enter.

Technical Specifications

General	
Working Voltage	DC12V–24V
Dimension(Projections excluded)	175*76*70mm
Weight	Appr. 320g

Network System	LTE/WCDMA GPS
Working Band	

	B2/B4/B5/B12/B13/B14/B66/B71@FDD LTE; B2/B4/B5@WCDMA;
Working Mode	Simplex
Working Temperature	(-)20 – (+)60°C
Storage Temperature	(-)30 – (+)60°C
Occupied Bandwidth	≤1.48MHz
RF Power	≤30dBm
RX Sensitivity	LTE ≤-93dBm; WCDMA ≤-108dBm; GSM ≤-106dBm;
Audio Output	500mW
Antenna Impedence	50Ω

All stated specifications are subject to change without notice or obligation

Trouble Shooting and Maintenance

■ Troubleshooting

Problem	Solution
The radio does not work when switched on.	The battery is low. Please recharge the battery pack and make sure the battery pack is properly fitted, or insert a fresh battery, refit it if necessary. Swap the battery onto another radio to check if one is available.
The battery runs out in a short time.	The battery is no longer in good condition and needs to be replaced with a new one.
The radio is unable to transmit or receive calling from other radios in the same group.	The network is disconnected or the signal strength is weak or unstable, please make sure the SIM card is well connected and re-start the radio if necessary.

Maintenance and Cleaning
Do not carry the transceiver by the antenna or attached audio accessories. Always turn the transceiver OFF when attaching or detaching audio accessories. Clean the buttons, control knob and radio body with a dry cloth when it has been unused for a long time or becomes dirty.

Warranty and Service

Our warranty applies only to the purchaser if the radio has been properly used and maintained.

Conditions of Warranty:
Quanzhou SFE Electronic Technology Co , Ltd warrants for 18 months to the customer, this product (excluding supplied accessories) to be free from defects in materials and craftmanship. SFE warrants for 6 months to the customer the supplied accessories to be free from defects in materials and craftsmanship.

This user manual applies to SEMI 000etc

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off

and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

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SEM1000, 2AYFQ-SEM1000, 2AYFQSEM1000, SEM1000 In-Vehicle POC Network Mobile Radio, In-Vehicle POC Network Mobile Radio, Network Mobile Radio, Mobile Radio