

Tihebeyan Tihebeyanhg5iuo2y7v

Tihebeyan GSM Fixed Wireless Terminal User Manual

Model: Tihebeyanhg5iuo2y7v

1. INTRODUCTION

The Tihebeyan GSM Fixed Wireless Terminal (FWT) is a device designed to connect standard telephones, alarm systems, or other communication products to a GSM mobile network. It operates on 900 MHz and 1800 MHz frequencies, allowing for versatile use with 2G, 3G, and 4G SIM cards. This manual provides detailed instructions for the proper setup, operation, and maintenance of your FWT.

Key features include:

- **LED Indicators:** 9 LED indicators provide real-time status for signal strength, call status, and operational mode.
- **Upgraded SIM Slot:** Designed for easy insertion and removal of the SIM card.
- **DTMF Recognition:** Supports standard DTMF input for enhanced call detection and error prevention.
- **Automatic Leveling:** Can be directly powered by a 12V security alarm system.
- **Anti-Noise Circuit Design:** Ensures clear and stable voice quality by reducing interference.



Figure 1: The GSM Fixed Wireless Terminal can connect to various communication products like telephones, alarm boxes, and recorders.

2. SETUP

2.1 Package Contents

Before proceeding with the setup, please ensure all items are present in the package:

- 1 x GSM Fixed Wireless Terminal Host Box
- 1 x Telephone Cable
- 1 x Power Adapter (US Plug)
- 1 x Antenna
- 1 x User Manual

2.2 SIM Card Installation

1. Ensure the device is powered off.
2. Locate the SIM card slot on the device.
3. Carefully insert your 2G/3G/4G SIM card into the slot until it clicks into place. Ensure the SIM card is correctly oriented as indicated on the device.

2.3 Antenna Connection

1. Locate the SMA antenna connector on the back of the device.
2. Screw the provided antenna onto the SMA connector clockwise until it is finger-tight.
3. Position the antenna vertically for optimal signal reception.



Figure 2: The external antenna for improved signal reception.

2.4 Power and Device Connections

1. Connect the power adapter to the DC 5V/12V input port on the back of the FWT.
2. Plug the power adapter into a suitable electrical outlet (110V/220V AC).
3. Connect your standard telephone, alarm system, or other communication device to one of the RJ-11 ports labeled "PHONE1" or "PHONE2" using the provided telephone cable.



Figure 3: Rear view of the terminal with power input, phone ports, and antenna connector.

3. OPERATING INSTRUCTIONS

3.1 Powering On/Off

- After connecting the power adapter, switch the "ON/OFF" button to the "ON" position to power on the device.
- To power off, switch the "ON/OFF" button to the "OFF" position and disconnect the power adapter.

3.2 LED Indicators

The device features 9 LED indicators to display its current status. Refer to the table below for their meanings:

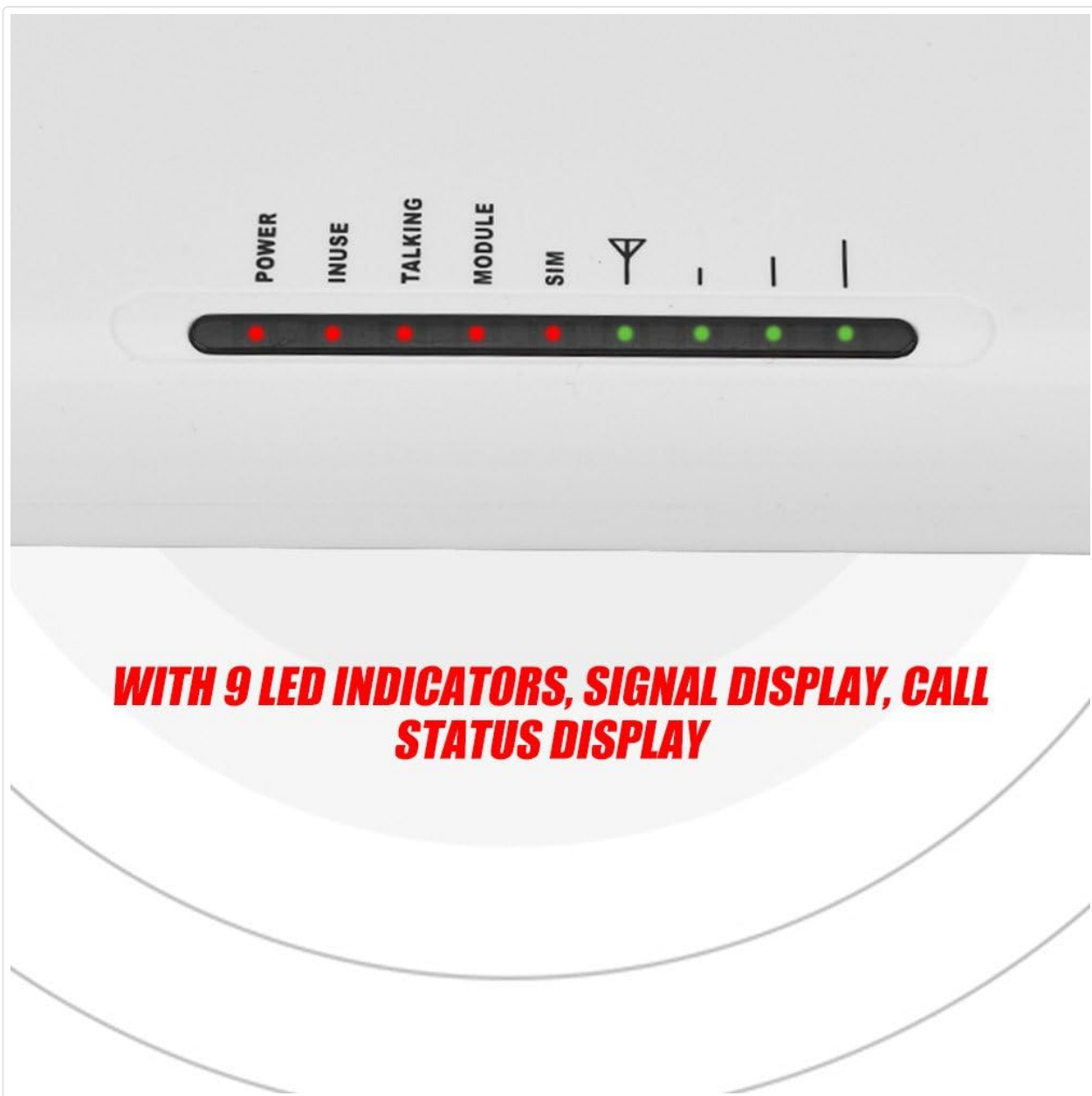


Figure 4: Detailed view of the LED status indicators.

Indicator	Status	Description
POWER	Solid Green	Device is powered on.
INUSE	Solid Green	Phone line is in use (off-hook).
TALKING	Flashing Green	An active call is in progress.
MODULE	Solid Green	GSM module is active and registered to the network.
SIM	Solid Green	SIM card is detected and ready.
Signal Strength (4 LEDs)	Green LEDs	Indicates GSM signal strength (more LEDs lit = stronger signal).

3.3 Making and Receiving Calls

- **Making a Call:** Pick up the connected telephone handset. You should hear a dial tone. Dial the desired phone number.

- **Receiving a Call:** When an incoming call is detected, the connected telephone will ring. Pick up the handset to answer the call.

The device supports standard DTMF (Dual-Tone Multi-Frequency) input, which can be used for various functions such as navigating automated phone menus or specific alarm system commands.

4. MAINTENANCE

4.1 General Care

- Keep the device in a dry environment, away from direct sunlight and extreme temperatures.
- Avoid exposing the device to water or excessive humidity.
- Do not drop or subject the device to strong impacts.
- Ensure proper ventilation around the device to prevent overheating.

4.2 Cleaning

To clean the device, use a soft, dry cloth. Do not use liquid cleaners or abrasive materials, as these may damage the surface or internal components.

4.3 Environmental Conditions

- **Operating Temperature:** -10 °C to +40 °C
- **Operating Humidity:** 45% ~ 90%
- **Atmospheric Pressure:** 86 to 106 Pka

5. TROUBLESHOOTING

If you encounter issues with your GSM Fixed Wireless Terminal, please refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No Power LED	Power adapter not connected or faulty; device not switched on.	Check power adapter connection and outlet. Ensure the ON/OFF switch is in the 'ON' position.
No Signal Strength LEDs / Weak Signal	Poor GSM network coverage; antenna not connected or positioned correctly; faulty SIM card.	Relocate the device to an area with better GSM reception. Ensure the antenna is securely connected and positioned vertically. Check if the SIM card is active and correctly inserted.
No Dial Tone / Cannot Make Calls	SIM card not registered; telephone not connected correctly; insufficient signal.	Verify SIM card registration (MODULE LED should be solid green). Check telephone cable connection to RJ-11 port. Ensure adequate signal strength (Signal Strength LEDs).
Cannot Receive Calls	SIM card not registered; telephone not connected correctly.	Verify SIM card registration. Check telephone cable connection.

Problem	Possible Cause	Solution
Poor Voice Quality	Weak signal; environmental noise.	Improve signal strength by repositioning the device/antenna. The device has anti-noise circuitry, but extreme environmental noise can still affect quality.

If the problem persists after trying these solutions, please contact your retailer or the manufacturer for further assistance.

6. SPECIFICATIONS

Feature	Detail
Model	Tihebeyanhg5iuo2y7v
Plug Type	US Plug
Weight	410 g
Dimensions (L x W x H)	Approx. 16 x 10 x 3 cm
Antenna Length	280 cm (cable), 20 cm (height)
Telephone Cable Length	145 cm
Color	White
Operating Mode	GSM 900/1800 MHz (supports 2G/3G/4G SIM cards)
Peak Power	2 W
Power Consumption	Static ≤ 80 mA/1350 mA, Emission ≤ 600 mA
Sensitivity	-104 dB
Internal Voltage	DC 5 V/12 V/1.0 A
Ambient Temperature	-10 °C to +40 °C
Operating Humidity	45% ~ 90%
Atmospheric Pressure	86 to 106 Pka
Environmental Noise	< 60 dB
Antenna Gain	3.5 dB (omnidirectional), 12 dB (directional/optional)
Power Supply	110 V / 220 V AC $\pm 10\%$, 50 Hz / 60 Hz
Connection Method	RJ-11, Plug and Play
Antenna Connector	SMA

7. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided at the time of purchase or contact your

retailer. Specific warranty terms may vary by region and retailer.

For technical support or further assistance, please contact the retailer from whom you purchased the Tihebeyan GSM Fixed Wireless Terminal or visit the official Tihebeyan website for contact information.