

TECOM

User Manual

Fixed Wireless Terminal

MT-9960



900/1800 MHz Dual Band

850/1900 MHz Dual Band

GSM/GPRS

Introduction

Thank you for choosing MT-9960, TECOM Fixed Wireless Terminal. TECOM's MT-9960 is an advanced fixed GSM-cellular terminal that provides selectable dual-band GSM and PSTN service. It allows you to make or receive a call via the GSM Mobile Network through your existing PBX or regular phone.

Advantage of TECOM MT-9960

- **Access to GSM Service :**
The MT-9960 is the best solution for providing access to GSM wireless service when no fixed telephone network is available.

- **Dual Mode Service**
With the MT-9960, You can connect with existing PSTN line to have Selectable Dual-band GSM and PSTN Service.

- **Plug-and-Play Installation**
Standard RJ11 and RS232 are provided so that you can easily install the MT-9960 with your existing PBX or phone.

- **Built-in voice path selector**
No dedicated CO-Line port required so that you don't need re-setting the PBX system, changing the dialing behavior, and reducing PBX fixed line.

- **LCR (Least Call Routing)**
Automatically route phone calls between GSM and PSTN interfaces based on the internal LCR function setting.

Quick Installation Guide

Install the SIM Card

The SIM Compartment is on the back of the MT-9960. (See Figure 1)

1. Disconnect the power supply. The power has to be off whenever a SIM card is installed.
2. Press in on the tabs and remove the SIM compartment cover.
3. Line up the SIM card on the SIM card holder
4. Insert the SIM card in the SIM card holder.
5. Close the SIM card holder
6. Replace the SIM compartment cover

Note: If the SIM PIN 1 is enabled, you need to enter the PIN every time the unit powers on. See “SIM PIN Setting” for more information.

It is recommended to have SIM PIN 1 be disabled. Check with your service provider when you get your SIM card.

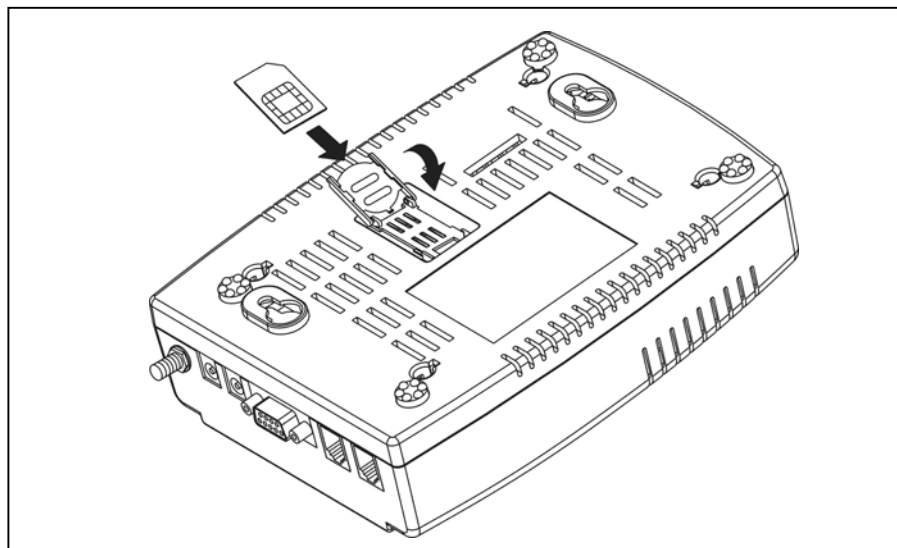


Figure 1

- Install the Antenna**
1. Plug one end of the antenna into the jack labeled “ANT” in the rear panel of the MT-9960. (See figure 2)
 2. Be sure the antenna connector is fixed properly.
 3. Choose a location that can receive better Cellular signal; above ground and as close to windows as possible. You can know the Cellular signal from the “RSSI” LED on the front panel. (See **LED Status** for the details)

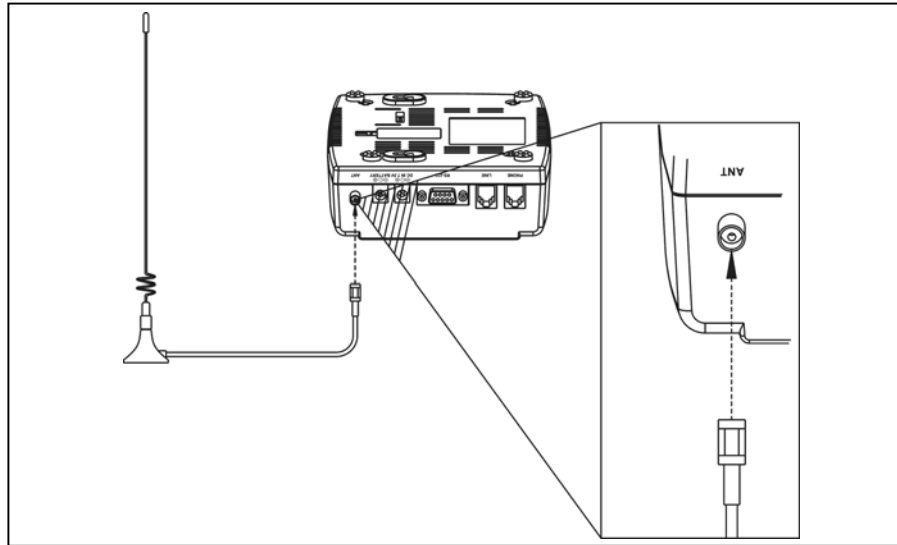


Figure 2

Connect the phone or PBX to MT-9960

1. Plug one end of the standard phone cord into the trunk port of PBX or phone
2. Plug the other end of the phone cord to the jack labeled “PHONE ” in the rear panel of the MT-9960 (See Figure 3).

If PSTN Line is in use;

3. Plug one end of the Line cord into the existing PSTN port.
4. Plug the other end of the Line cord into the jack labeled “LINE” in the rear panel of the MT-9960 (See Figure 3).

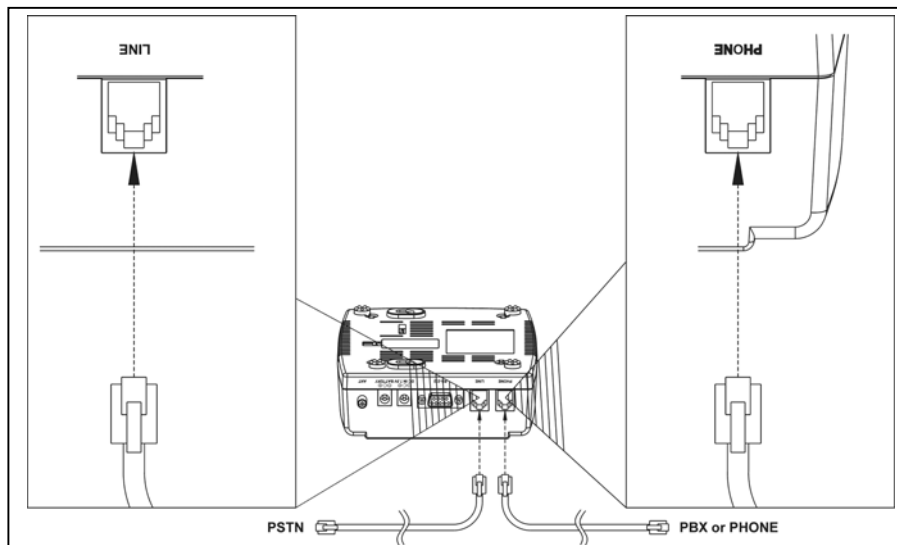


Figure 3

Connect the Power

1. Plug the power adapter into a standard electrical outlet.
2. Plug the power adapter into the jack labeled “DC IN 7.5V” in the rear panel of the MT-9960 (See Figure 4).

Note: If to use external battery, Acid-lead battery of 6V/3-54Ah is recommended.

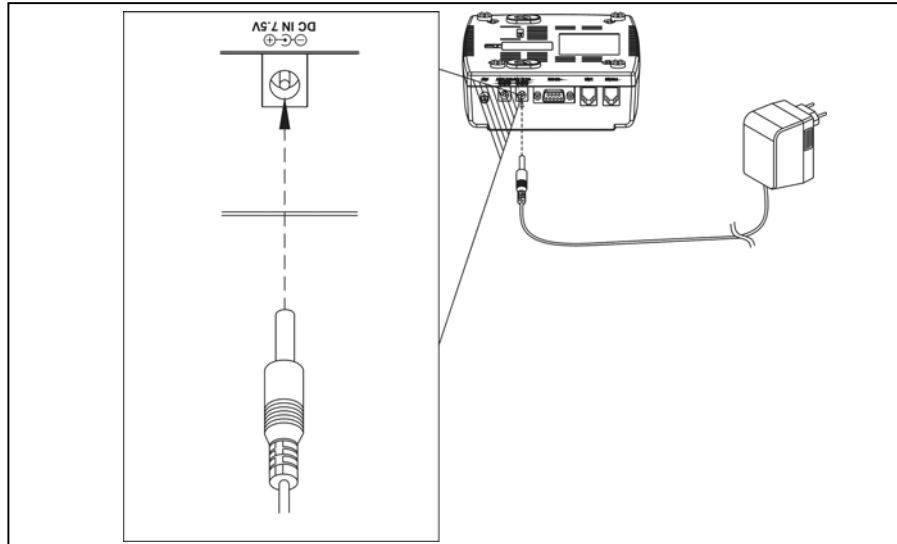


Figure 4

SIM PIN Setting

If your phone requires the SIM PIN 1 you will need to program it before making or receiving calls. To program the SIM PIN 1:

- 1.) Pick up the handset and press: ***#*#*8326#**
- 2.) Dial tone is heard
- 3.) Press ***#91#SIM PIN#**
- 4.) A confirming tone is heard.

Polarity Reversal

To send the polarity reversal signal when Polarity reversal is required for the PBX:

- 1.) Pick up the handset and press: ***#*#*8326#**
- 2.) Dial tone is heard
- 3.) Press ***#54#1#**
- 5.) A confirming tone is heard.

Caller I.D. Type

This is to set the type of caller ID that phone(or PBX) may receive for a MO incoming call.

- 1.) Pick up the handset and press: *#*#*8326#
- 2.) Dial tone
- 3.) Press*#51#Caller I.D. type#
- 4.) A confirming tone is heard

【Note】

- 0: disable
- 1: DTMF(default)
- 2*0: FSK Bell 202
- 2*1: FSK V23

LED Status

Five of LED in the front panel of MT-9960 to show the operation status:

Indicator	Status	Event
POWER	steady on	Power is on and normal.
	slow flash	Battery strength is low (when external battery is provided).
	off	Power is off or abnormal. Please check the power.
STATUS	steady on	GSM MO network is not linked. Or SIM card is not detected. Please re-set the power, if SIM card is inserted and the lamp is steady on. If it remains after the product is re-powered, the GSM FCT-Trunk might be defective.
	slow flash	GSM MO network is linked normally.
MO	steady on	GSM MO line is engaged.
	slow flash	GSM MO network is at standby.
	fast flash	Incoming MO call is ringing.
	high-speed flash	PIN code of SIM is failed.
	off	GSM transceiver is failed. Failed to connect to GSM MO network.
CO	NOT ACTIVE	
RSSI	steady on	RSSI (-75dbm ~ -51dbm): good
	Slow flash	RSSI (-87dbm ~ -77dbm): average
	fast flash	RSSI (-99dbm ~ -89dbm): poor
	off	RSSI (-113dbm ~ -101dbm): bad

Data Connection (Option--setup CD is required)

The MT-9960 features a RS-232 port for connection to a PC. It allows for traditional dial-up type connection or GPRS (General Packet Radio Service) connection to access the internet. A setup CD for installation on a PC is required.

Contact your dealer for more information.