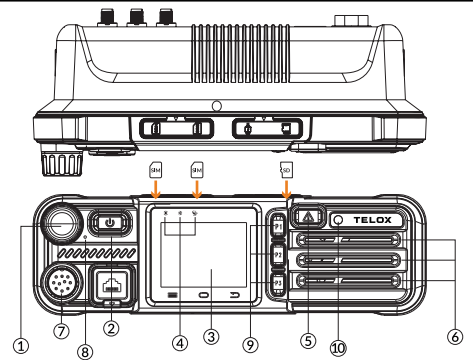




No.	Part Name	No.	Part Name
1	Volume/Channel Knob (Double click to switch the functions)	3	LCD Display
2	Power On/Off	5	SOS
4	LED Indicators	7	Microphone Jack
6	Speaker	9	Programmable Keys
8	Microphone		
10	Camera		

Notice:Channel Knob functions must be adjusted by PTT applications.

Main Mic & Noise Reduction

There are two mics of M3, one is under power button, which is the main mic; the other one is on the bottom of M3, it is a noise reduction mic.

Main Mic: Without external RM connected, user can use P1 for PTT button and make Push-to-Talk through the main mic.

Noise Reduction Mic: Through chip to reduce the environmental noise during VoIP calling, bring a clearer calling experience to customers.

LED Lights

There are four LED lights on M3, Power status light, light bar of Internet & PTT, BT and GPS.

Power status light: there are two types status of Power status light

- The light will be off if the device is power off;
- There will be steady green light of the power button if the device is power on.

Internet & PTT light: there are two types status of Internet & PTT light

- The light will be flashing blue light if the device is connected with internet during standby mode
- The light will be flashing red light if the network is abnormal;
- The light will be steady red light if there is PTT out;
- The light will be blue light if there is PTT in.

Notice: c & d will need APK to call indicator broadcast to realize the function.

BT light: there are two types status of BT light.

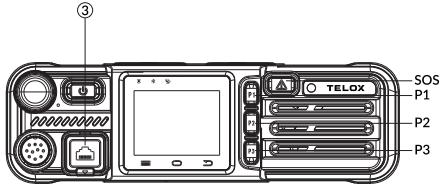
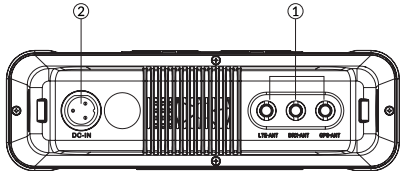
- The light will be off if the BT is off;
- The light will be flashing blue light if the BT is on.

GPS light: there are three types status of GPS light.

- The light will be off if the GPS is off;
- The light will be flashing blue light if the GPS is on.

Programmable Keys

For better using experience, you can install different PTT application and set P1, P2, P3 as different functions with the help from PTT application provider according to your requirement.



No.	Nome	Program-mable key	Part Name
1	Antenna Port	P1	PTT
2	Power Port	P2	Channel up
3	RJ45 Port	P3	Channel down
		SOS	SOS

CE Warning

- The operating temperature of the device can't exceed 60 C and shouldn't be lower than -20 C.
 - The device complies with RF specifications when the device used at 20cm from your body
- Hereby, Telo Communication (Shenzhen) Co., Ltd declares that this product is in compliance with essential requirements and other relevant provisions of Directive 2014/53/EU. This product is allowed to be used in all EU member states.

FCC Warning

15.19 Labeling requirements.

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.

15.21 Information to user.

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

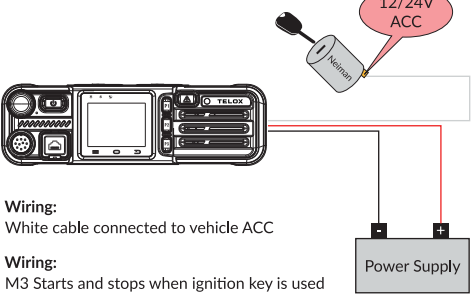
15.105 Information to the user.

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.
- The device complies with RF specifications when the device used at 20cm from your body.

Wiring Cases

Case 1



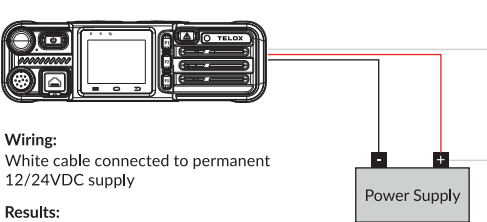
Wiring:

White cable connected to vehicle ACC

Wiring:

M3 Starts and stops when ignition key is used

Case 2



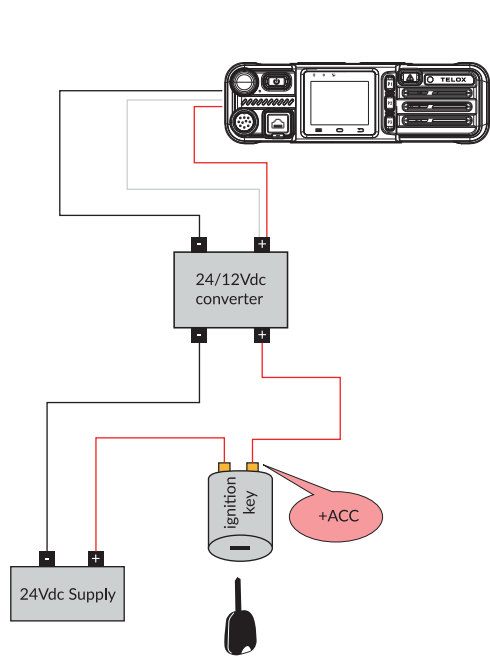
Wiring:

White cable connected to permanent 12/24VDC supply

Results:

M3 automatically starts when 12/24V supply is powered on, Then M3 is started and stopped with power button

Actual wiring with daon-converter



Telo Communication (Shenzhen) Co.,Ltd

Tel:+86-755-86950766

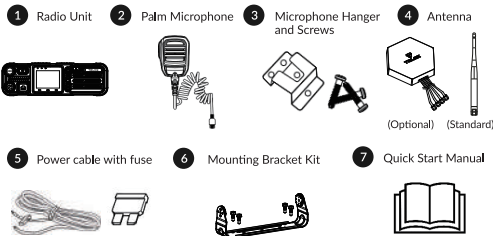
E-mail:sales@telox.com

Add:13th Floor, Building B, Union R&D Center, No. 381
Guangshen Road, Bao'an District, Shenzhen, China.
www.telox.com

Note

- Warranty period is 1 year from date of purchase.
- This product involves constant upgrading and/or improvement, our company reserves the right to change the specifications of software and/or hardware mentioned in this operating guide without any prior notice. The product specifications and information mentioned in the operating guide are for reference only.

Check List



Notice:

Please check the above accessories before you discard the packing material. Please contact your local dealer immediately if there is any missing or damage parts.

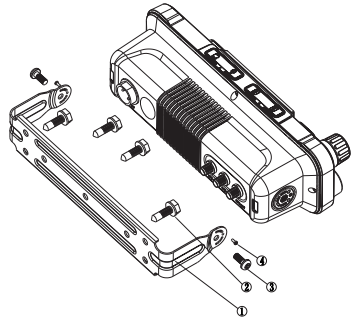
The antenna is recommended to be fixed on the plane in the upper right/left corner of the center console with the Logo facing upwards.

Warning: The Antenna must not be placed in the area affected by SRS airbag.

Installation

- Before you install the radio in a vehicle, be sure to read the following instructions carefully.
- The radio operates with cathode-grounded power supply of 12 to 24V DC only.
- Please check polarity and voltage of the power supply on the vehicle before you install the radio.
- Please check how long the screws will extend from the bottom surface of the radio, before you install the radio. Drill the mounting hole cautiously to avoid damage to the vehicle wiring and other parts.
- Please connect Telo supplied antenna and power cord to the radio, before you install it in the bracket. And make sure the antenna and power cord is dedicated for Telo Systems digital radios.
- Install the radio with Telo supplied mounting bracket, to avoid radio looseness in case of accidents. The loose radio may cause body injury.
- Install the radio in a location where it's easy to reach the front panel controls.
- Please make sure there's sufficient space at back of the radio for wiring.
- When the fuse for DC power cord needs replacement, it must be replaced by a fuse with the same specification.

Installation Steps



- Install the bracket in a location where it's easy to operate the device.
- Connect accessories such as antenna and power cable to the device.
- Slide the device into the mounting bracket and secure it using the locking knobs.
- Install the microphone hanger in a location where it can be reached easily.
- Plug the palm microphone into the microphone jack on the front panel and place it on the hanger when you do not use it.

No.	Part Name
1	Mounting Bracket
2	M5.0 Screw
3	M4.0 Screw
4	M1.4 Screw

Care and Cleaning

- To guarantee optimal performance as well as a long service life of the product, please follow the tips below.

Before Use

- Turn on the switch connects communicator and with car battery/circuit.
- Insert SIM into M3 vehicular communicator and enable SIM data, or connect to a certain Wi-Fi/hotspot.

Product Care

- Keep the product at a place with good ventilation and heat dissipation to facilitate normal work.
- Do not place irrelevant articles on top of the product to ensure optimal heat dissipation.
- Do not place the product in corrosive agents, solutions or water.

Product Cleaning

- Clean up the dust and fine particles on the product parts with a clean and dry lint-free cloth or a brush regularly.
- Use a non-woven fabric with neutral cleanser to clean the keys, control knobs, LCD and jacks after long-time use.
- Don't use chemical preparations such as stain removers, alcohol, sprays or oil preparations.
- Make sure the product is completely dry before use.

Caution: Power off the product before cleaning.



M3 Quick Start Guide



Thanks for choosing our product!
This Quick Start Guide only applicable to M3 & Telo & TELOX series.
Before using the product, please read the Quick Start Guide to fully benefit from it.

Frequency Bands:

GSM 900: 880 MHz to 915 MHz
GSM1800: 1710 MHz to 1785 MHz
WCDMA Band I: 1920 MHz to 1980 MHz
WCDMA Band VIII: 880 MHz to 915 MHz
LTE Band 1: 1920 MHz to 1980 MHz
LTE Band 3: 1710 MHz to 1785 MHz
LTE Band 7: 2500 MHz to 2570 MHz
LTE Band 8: 880 MHz to 915 MHz
LTE Band 20: 832 MHz to 862 MHz
LTE Band 28: 703 MHz to 748 MHz
LTE Band 38: 2570 MHz to 2620 MHz
LTE Band 40: 2300 MHz to 2400MHz
Bluetooth: 2402~2480 MHz
WLAN 802.11b/g/n: 2412 to 2472MHz
WLAN 802.11n: 2422 to 2462MHz
WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5150 to 5250 MHz
WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5250 to 5350 MHz
WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5470 to 5725 MHz
WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5725 to 5850 MHz
GPS: 1575.42 MHz $\pm$ 1.023 MHz
BDS: 1561.098MHz
GLONASS: 1602 MHz

Max power:

GSM 900: 33.61dBm
GSM1800: 30.79dBm
WCDMA Band I: 24.42dBm
WCDMA Band VIII: 24.36dBm
LTE Band 1: 24.83dBm
LTE Band 3: 24.75dBm
LTE Band 7: 24.15dBm
LTE Band 8: 24.99dBm
LTE Band 20: 24.70dBm
LTE Band 28: 25.25dBm
LTE Band 38: 24.59dBm
LTE Band 40: 25.10dBm
BT BDR+EDR: 5.37dBm
BT BLE: -1.78dBm
2.4GHz WLAN: 16.55dBm
5GHz WLAN: 16.43dBm
5.8GHz WLAN: 13.40dBm

Modulation Mode:

GSM: GMSK for GSM/GPRS; GMSK and 8PSK for EDGE
WCDMA: QPSK; HSDPA: QPSK/16QAM; HSUPA: BPSK
LTE: QPSK/16QAM
BT BDR + EDR: GFSK(1Mbps), $\pi/4$ -DQPSK(2Mbps),8-DPSK(3Mbps)
BT BLE: GFSK(1Mbps)
2.4G WLAN:
802.11b(DSSS): CCK, DQPSK, DBPSK
802.11g(OFDM): BPSK, QPSK,16-QAM,64-QAM
802.11n(OFDM): BPSK, QPSK,16-QAM,64-QAM
5G WLAN:
802.11a/n(OFDM): BPSK, QPSK,16-QAM,64-QAM
802.11ac(OFDM): BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM
GPS: BPSK
BDS: QPSK
GLONASS: FDMA

BDR + EDR: Channel Spacing: 1MHz
BLE: Channel Spacing: 2MHz
2.4G WIFI Channel Spacing: 5MHz
5G WIFI Channel Spacing: 10MHz
WCDMA Channel Spacing: 200KHz

GSM Channel Spacing: 200KHz

GSM/WCDMA/LTE: External Antenna, Gain(s): GSM 900: 1.62dBi, GSM1800: 1.83dBi;

WCDMA: B1: 2.05dBi, B8:1.62dBi;

LTE:B1: 2.05dBi, B3: 1.83dBi, B7: 1.75dBi, B8: 1.62dBi, B20: 1.9dBi, B28: 1.73dBi, B38: 2.05dBi, B40: 0.82dBi

Bluetooth: PIFA Antenna, Gain(s): 0.72dBi;

WLAN: PIFA Antenna, Gain(s): 2.4GHz: 0.72dBi, 5GHz: 1.88dBi

GNSS: PIFA Antenna;

CE Maintenance

1.Use careful with the earphone maybe excessive sound pressure from earphones and headphones can cause hearing loss.



2.Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

3.The product shall only be connected to a USB interface of version Type-C.

4.Adapter shall be installed near the equipment and shall be easily accessible.

5.EUT Operating temperature range: -20° C to 60° C .

6.Adapter: The plug considered as disconnect device of adapter

Power supply and ADP(rating):

Input: DC 12-24V 1A

7.The device complies with RF specifications when the device used at 20cm you're your body.

8.To prevent possible hearing damage. Do not listen at high volume levels for long periods.

This product may be used in the following European member states subject to the following restrictions. For products that operate in the frequency band 5.150 to 5.350 GHz, wireless access systems (WAS), including radio local area networks (RLANs), shall be restricted to indoor use.

	AT	BE	BG	CH	CY	CZ	DE	DK	EE	EL	ES
	FI	FR	HR	HU	IE	IS	IT	LI	LT	LU	LV
	MT	NL	NO	PL	PT	RO	SE	SI	SK	TR	

Declaration of Conformity

Telo Communication (Shenzhen) Co., Ltd hereby declares that this Smart LTE Terminal is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. In accordance with Article 10(2) and Article 10(10), This product is allowed to be used in all EU member states.

