



Positioning Universal TM90 Asset Tracker User Manual

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Positioning Universal TM90 Asset Tracker



ID and Tooling Design

Dimensions: 92mm*50mm*18mm

Weight: g (with optional battery)

Physical and Electrical Specifications

- Input Voltage: 7-36VDC
- Power consumption:
 - Active mode: 1 00mA @12VDC
 - Sleep mode: <5mA @12VDC
- Operating temperature: -30°C to 80°
- Storage temperature: -30°Cto 80°C

Input/Output

Download and debug port: 1

SWDInterface: 1

Function LEDs: 2

GPS Status Green

Cellular StatusOrange

Buzzer:1

Input:1

Output:1

Cellular Communication

Operation mode: LTE/GPS

Operation band : LTEB2/B4/B12/B13/B25;GPS 1.57542GHz

Modulation: QPSK/16QAM

Harnesses

There are 1 harness that may be used with the TM90M-4: 4 wire power and 1/0 harness

Event Codes

The table below relates the Event codes in the message to the reason the message was generated:

Message#	Message Type	Description
0	Interval	Auto Report (auto report when moving)
1	Vibration	Vibration alarm(report when GPS is OFF and vibration detected)
2	Power Disconnect	Power cut alarm (report when external power is cut off)
3	Power Connect	Power connected alarm (external power has been connected)
4	Ignition ON	Hardwired or Virtual Ignition ON detected

5	Ignition OFF	Hardwired or Virtual Ignition OFF detected
6	Input High	Input high alarm
7	Input Low	Input low alarm
8		
9		
10		
11		
12		

System network structure

GPS alarm is currently the most advanced security Setting. GPS alarms are more expensive than ordinary burglar alarms and need to pay an additional service fee, so their popularity is not high. And the alarm is based on a GPRS network communication network, combined with the intelligent linkage of mobile phone and car anti-theft, this kind of alarm is not restricted by distance, the overlay network is wide, but need to pay the monthly rental. Buying guide to edit GPS alarm when the choose and buy, need to pay attention to is the comparison of several common GPS performances.

Introduction

This chapter is user manual for TM90M.



List

1. three TM90M devices.

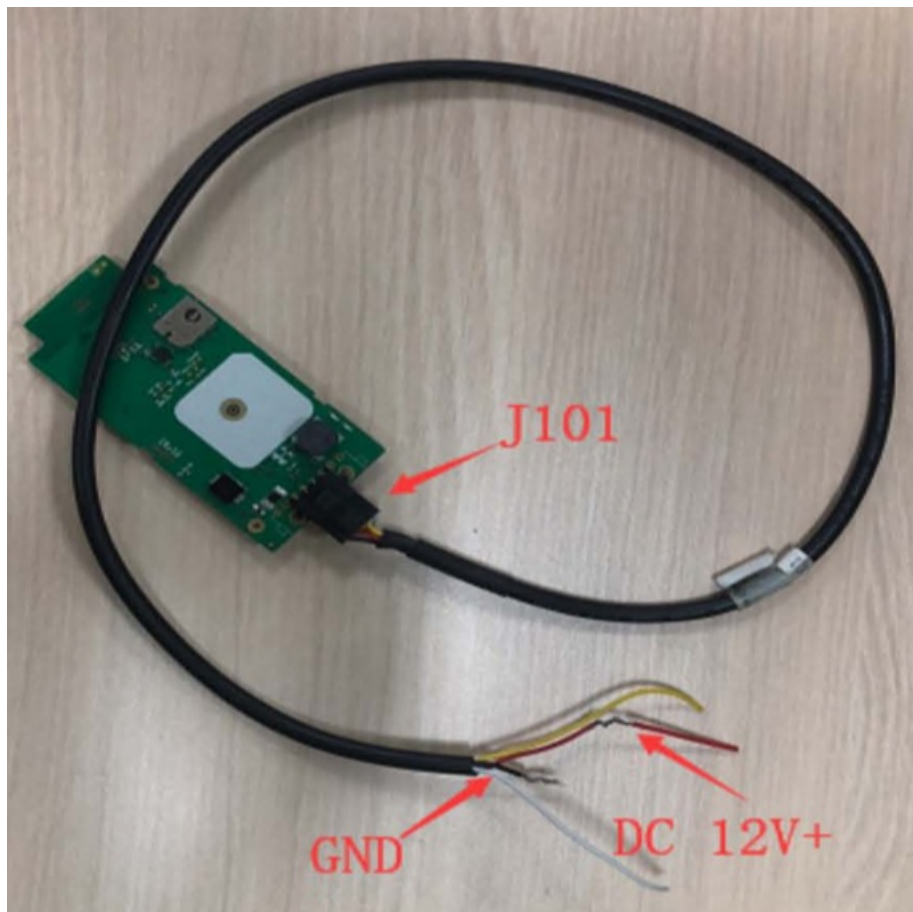


2. One DC 12V cable.

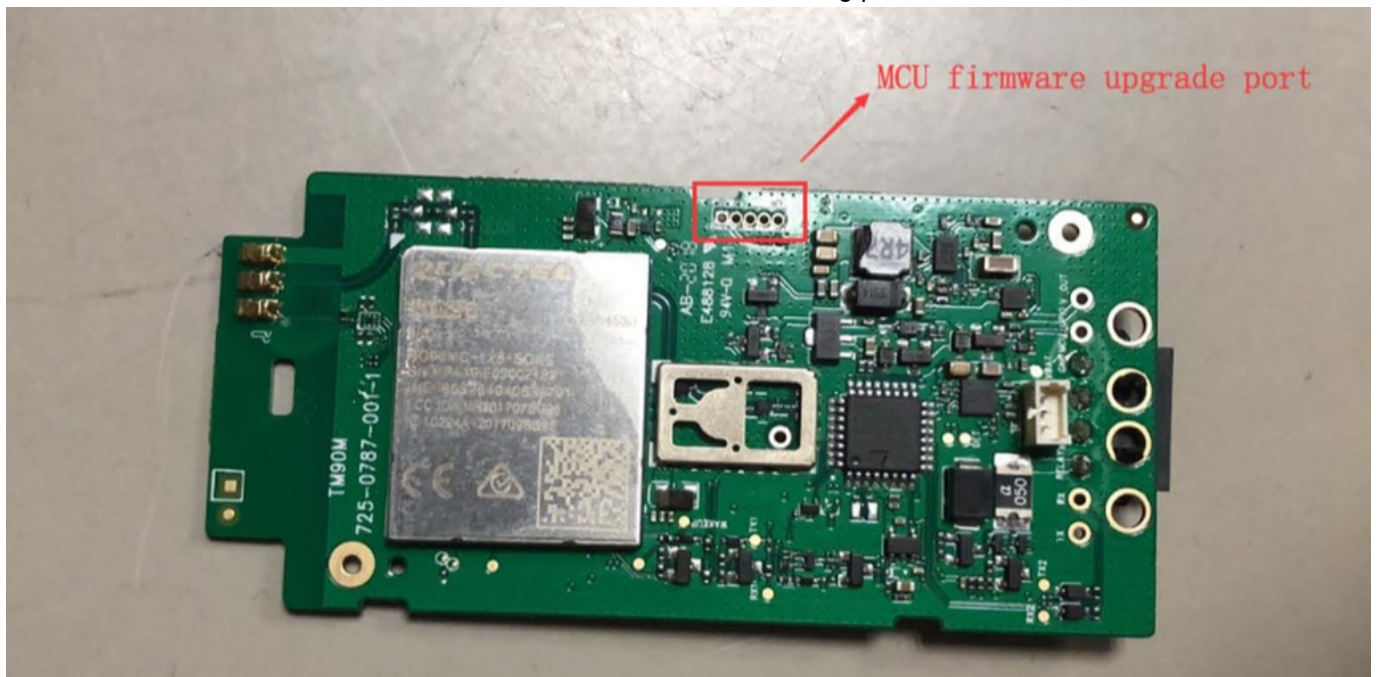


Description

Connect the DC 12V cable to the connector of J101 on the device, the other side connect to DC 12V, you can use the DC 12v cable to supply power.



The other interfaces of the TM90M-4 device are shown in the following pictures.



FCC Regulations

- 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.
- 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.
- Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

FCC RF Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. To comply with FCC RF Exposure compliance requirements, this grant is applicable to only Mobile Configurations. The antennas used for the transmitter must be installed to provide a separation distance of at least 20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

Documents / Resources

	Positioning Universal TM90 Asset Tracker [pdf] User Manual FJ900M, 2AHRH-FJ900M, 2AHRHFJ900M, TM90, Asset Tracker, Tracker
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