



Data Sheet

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MADE IN TAIWAN

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1. Introduction

The MT-900P is a portable compact tracking device for personal safety and asset monitoring. It combines high sensitivity GPS and quad band GSM/GPRS to perform the powerful security application.

The MT-900P can, based on quad band GSM/GPRS network and GPS satellite positioning system, track far-way objects conveniently by Short Message or internet. It can be used for child protection, anti-kidnapping, vehicle tracking; pets go out tracking, panic assistant for the aged, and much more.

2. Features

- ❖ Available Quad band GSM/GPRS 850/900/1800/1900 MHz
- ❖ GPS 50 channels all-in-view tracking with AGPS supported.
- ❖ GPS high sensitivity -159 dBm.
- ❖ Real time dynamic reporting based on time interval.
- ❖ Data logger capability built in with 4Mega bytes flash memory to record time stamp, position and event status.(option)
- ❖ 3D G-sensor to report motion sensing, accident from $\pm 4G$.(option)
- ❖ Remote command control by SMS or GPRS network (supporting TCP/UDP).
- ❖ Emergency call and notification, plus SMS sending location.
- ❖ Geo-fence capability with out of fencing notification.
- ❖ Over speed notification capability.
- ❖ Low battery notification capability.
- ❖ Power management for low power consumption.
- ❖ Surrounding audio monitoring capability.(option)
- ❖ Mini USB for charging and data exchanging.
- ❖ Personal service center program support.
- ❖ Over the air(OTA) firmware update (option)

3. Applications

- ❖ Personal safety
- ❖ Security – safety of security guard, locate asset
- ❖ Asset unauthorized movement detection
- ❖ Child care – locate missing kids, track whereabouts of children
- ❖ Disables' safety – seniors' safety
- ❖ Vehicle tracking
- ❖ Outdoor recreation – travel, hiking, bike riding
- ❖ Animal tracking – track pets' location

4. Electrical Specifications

4.1 General Specification

Parameter	specification
Operating Voltage	3.4 V
Operating Temperature	-20 °C ~ +60 °C
Storage Temperature	-40 °C ~ +85 °C
Power Consumption	Normal 150 mA
	Idle mode < 6 mA
Battery	600mAh
USB Power Input	5V, 500mA
Battery Voltage	Min:3.4V, Typ:3.7V, Max:4.2V
SIM card type	1.8V, 3V
SIM card Holder type	Push-Push type
LED Status Indicator	Charge/Power/ GPRS/GPS
Dimension	33 x 29 x 10 mm
Weight	27g

4.2 GSM/GPRS Specification

Frequency	Quad band 850MHz/900MHz/1800MHz/1900MHz
Output power	Class 4(2W) for EGSM 850 and 900 Class 1(1W) for GSM 1800 and 1900
Protocol support	TCP/UDP
GPRS Multi-slot	Class 10
GPRS Mobile station	Class B
Coding scheme	CS1,CS2,CS3,CS4
Downlink/ Uplink max.	85.6Kbps/42.8 kbps
Operating temperature	-30 °C ~ +85 °C
Storage temperature	-40 °C ~ +85 °C
Current consumption	Idle mode: <1.6 mA GSM : < 300mA GPRS (2Tx,3Rx power level 10): < 410mA

4.3 GPS Specification

Parameter	specification
Frequency	L1, 1575.42MHz
Channels	50 channel all in view
Acquisition sensitivity	-142dBm
Tracking sensitivity	-159dBm
TTF	hot start < 1 sec warm start < 36 sec cold start < 36 sec
Signal Reacquisition	<1s
Update Rate	1Hz (standard)
Tracking current	40mA
Operating temperature	-40°C ~ +85°C
Datum	WGS-84(Default)
Protocol	NMEA-0183 V3.01
Dynamics	4G (39.2m/sec ²)

5. USB Interface

5.1 Battery Charging

1. Charging by a computer USB port:

Connect the supplied USB cable between the computer USB port and the mini USB connector of the MT-900P device.

2. Charging by a cigarette lighter power adapter:

- a. Plug the USB connector of the supplied USB cable to the USB connector of the cigarette lighter power adapter.
- b. Connect the mini USB plug of the USB cable to the mini USB port of the MT-900P device.

3. Charging by AC adapter:

Connect the supplied AC adapter to the mini USB port of the MT-900P device.

5.2 Parameters Setting

Connect the supplied USB cable between the computer USB port and the mini USB connector of the MT-900P device.

The USB interface is also a command and data interface which allows users to download the firmware and set configurations.

6. Button/Switch Indication

6.1 Slide switch

A micro switch for turning on or turning off MT-900.

6.2 Panic Button

Press and hold the Panic button for 3 seconds to activate the device to perform the emergency notification and followed the pre-defined setting LED Indicator (Emergency Alarm).

7. LED Indication

7.1 Power On/Off status

For Power status indicator uses green color LED to instruct the status:

LED mode	Operation status
OFF	POWER OFF
ON	POWER ON
FLASH	IDEL MODE

7.2 GPS Status

For the GPS status indicator through green color LED, detailed information is shown in the following table:

LED mode	Operation status
OFF	un-fixed
FLASH	fixed

7.3 GSM/GPRS Status

For the GPRS/GSM status indicator through blue color LED, detailed the information is shown in the following table:

LED mode	Operation status
OFF	GSM/GPRS is not running
FLASH	Indicates GPRS data transfer:

7.4 Charging Status and Emergency Alarm

For the Charging and Emergency Alarm indicator through Red LED, detailed information is shown in the following table:

LED mode	Operation status
ON	Charging
OFF	Finish
Flashing	Emergency Alarm

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