

## MEITRACK RFID User Guide



**Applicable Model: T1/T333/MVT600/T366**

## Change History

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## 2 Specifications

Item	Specifications
Dimension	79 mm x 42 mm x 13 mm
Weight	150g
Power consumption	25 mA
Frequency	125 KHz
Operating temperature	-20°C to 55°C
Operating humidity	5%–95%
Operating voltage	5 V
Internal resistance	3.6R

## 3 Appearance



RFID reader



RFID card

## 4 RFID Functions

- Identify the driver ID and grant permission to start the vehicle.
- Through MS03 platform, drivers' attendance can be collected by driver I/O status history.

## 5 Installing the RFID Reader

### 5.1 Attaching the RFID Reader to Your Vehicle

Attach the RFID reader to your vehicle according to your needs.

### 5.2 Connecting the RFID Reader to a Tracker

RFID reader's connector:



1. Connect the RFID reader to the T1/T333.


Dedicated RS232 ports of the T1/T333 are as follows:



You can use any of the following ways to connect the RFID reader to the T1/T333:

(1) Use the 4-pin to 8-pin cable.



(2) Remove a part of the RFID reader's connector, as shown in the following figure on the left. Then plug the RFID reader's connector into the tracker (.



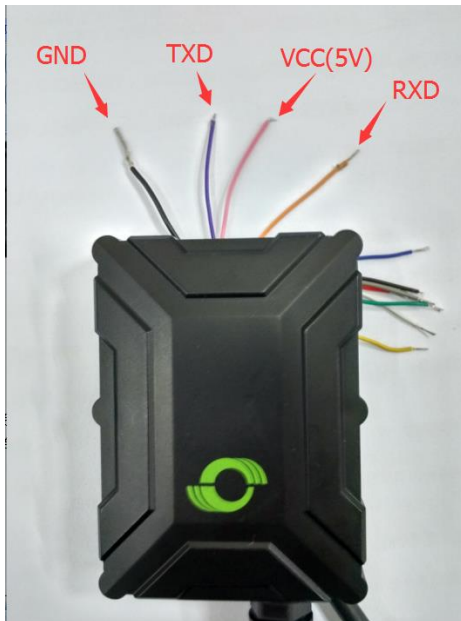
2. Connect the RFID reader to the MVT600.

Dedicated Wiegand 26 ports of the MVT600 are as follows:



3. Connect the RFID reader to the T366/T366G.

Dedicated RS232 cables of the T366/T366G are as follows:



A. Cut off the RFID reader's connector, as shown in the following figure.



B. Connect the iButton reader to the tracker according to the wiring instructions in the following table.

T366/T366G Cables	RFID Reader Cables
VCC (pink; 5 V)	Red cable
GND (black)	Black cable
Tx cable (purple)	Rx cable (yellow)
Rx cable (brown)	Tx cable (green)

After the RFID reader is connected to a tracker, power on the tracker, then the RFID reader's indicator will blink red. When you swipe the RFID card on the RFID reader, the RFID reader's indicator will blink green once and a "beep" sound will be made. Then the tracker will start to record data.

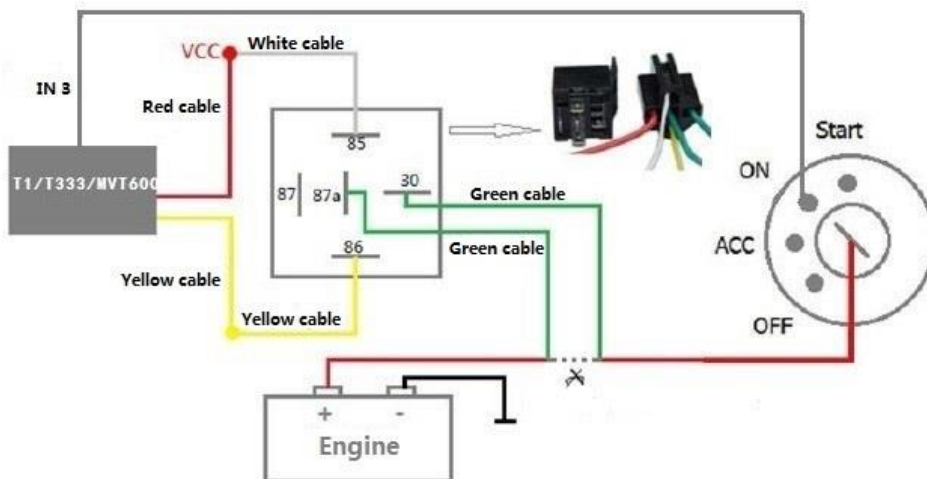


## 6 Using RFID

### 6.1 Starting the Engine by RFID

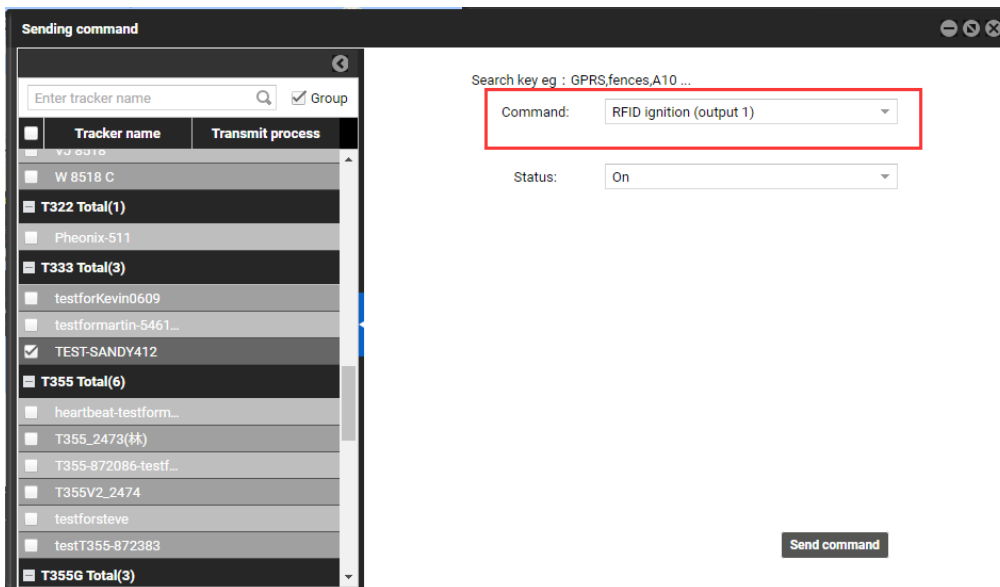
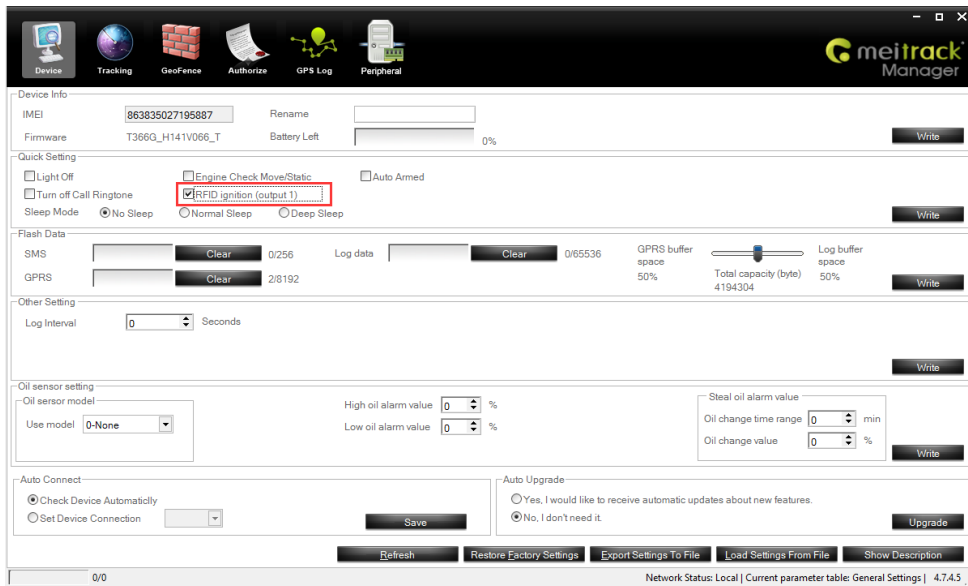
Before starting the engine, ensure that:

1. The T1/T333/MVT600's input 3 or T366/T366G's input 2 is connected to the engine detection cable.
2. A RFID card has been authorized.
3. The tracker's output 1 is connected to the engine control cable through a relay, as shown in the following figure.



Note: For details about how to authorize a RFID card, see the section 6.4.1 "Authorizing RFID Cards."

4. The RFID ignition function has been enabled by Meitrack Manager or MS03 tracking platform.



Note: For the T366/T366G, you must make sure the RFID event has been enabled. Otherwise, the function will be unavailable.

## 6.2 How RFID Works

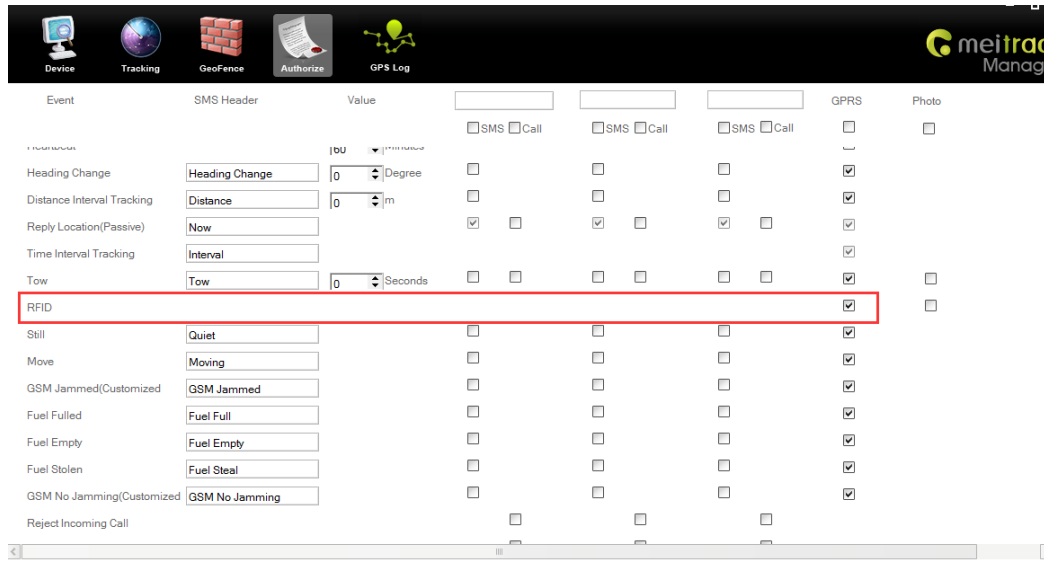
After swiping the authorized RFID card on the RFID reader, the driver must start the engine within 1 minute. Otherwise, the tracker's output 1 will be triggered (engine cut-off), and thus the driver cannot start the vehicle. At the moment, if you want to start the engine, swipe the RFID card again.

## 6.3 Configuring RFID by Meitrack Manager

1. Connect your tracker to a computer and run Meitrack Manager.
2. Meitrack Manager will automatically detect the device, and the **Device** tab page for default parameters is displayed.



3. Select **Authorize**. On the tab page that is displayed, select **RFID** on the **GPRS** column.



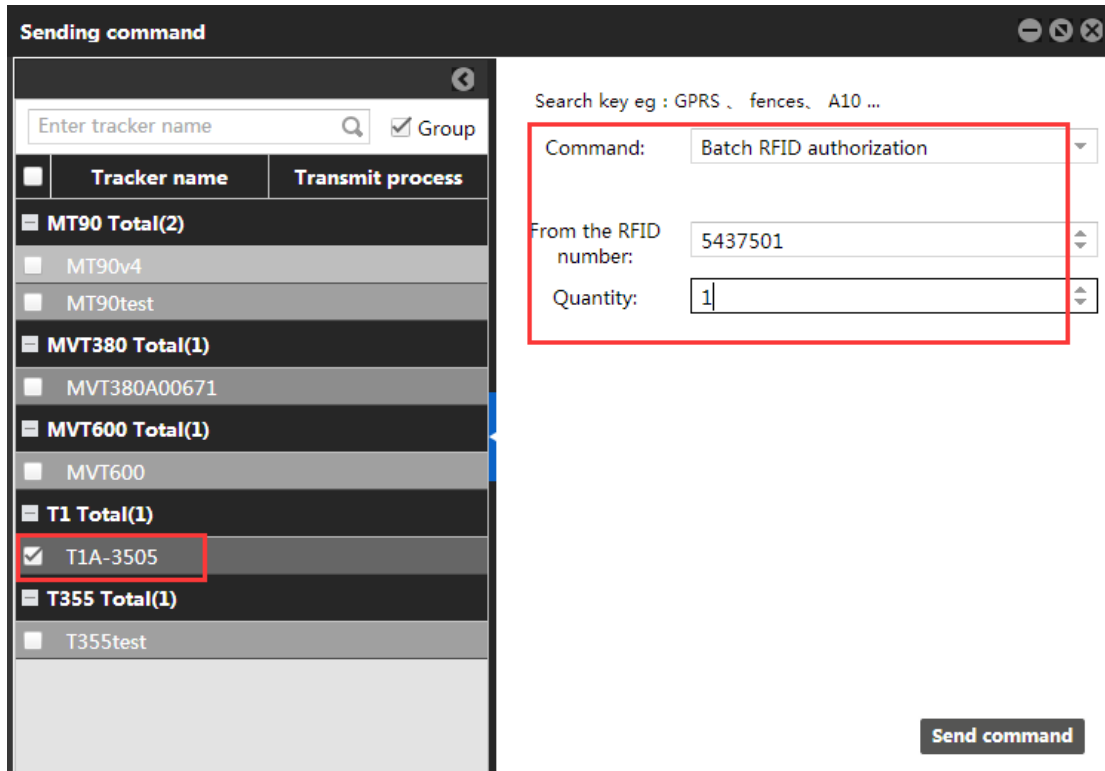
Note: If this RFID option is deselected, the MS03 platform cannot collect statistics on RFID event reports after you swipe a RFID card. The RFID event is enabled by default.

## 6.4 Configuring RFID by MS03

### 6.4.1 Authorizing RFID Cards

1. On the main interface, choose **Management**.
2. On the **Management** window that is displayed, select **Sending command** from **Use Normal**. The **Sending command** window is displayed.
3. Select one or multiple trackers, select the **Batch RFID authorization** command, specify **From the RFID number** and **Quantity**, and click **Send command**.

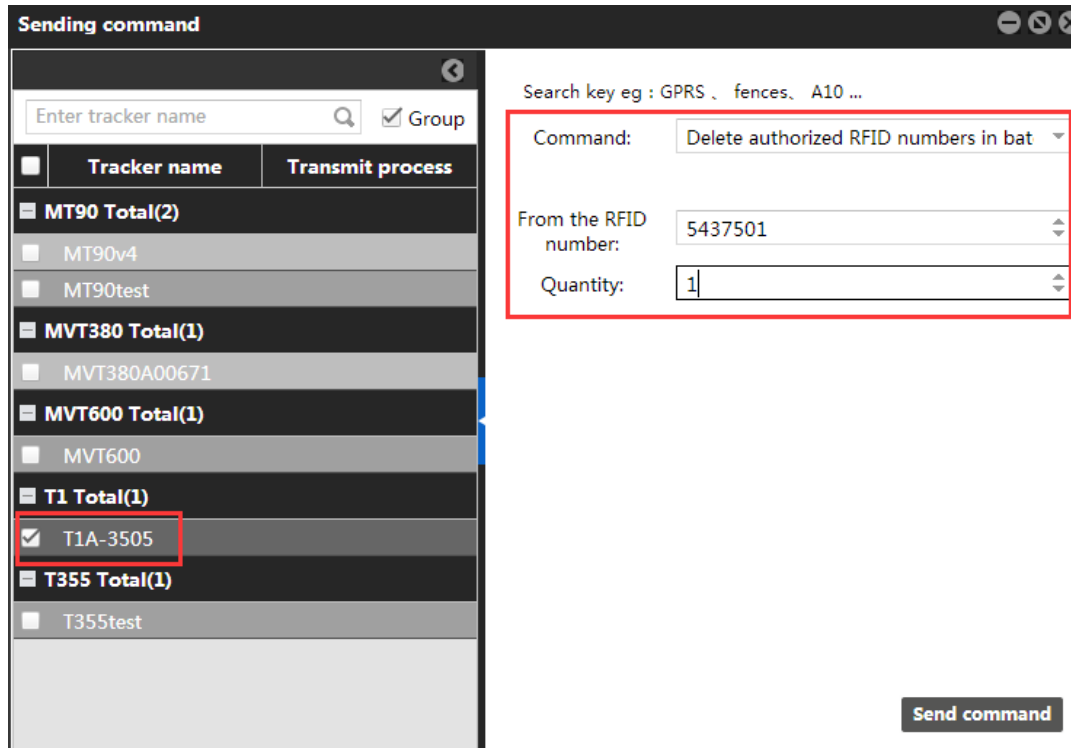
If only one RFID card needs to be authorized, set **Quantity** to **1**.



#### 6.4.2 Deleting Authorized RFID Cards

1. On the main interface, choose **Management**.
2. On the **Management** window that is displayed, select **Sending command** from **Use Normal**. The **Sending command** window is displayed.
3. Select one or multiple trackers, select the **Delete authorized RFID numbers in batches** command, specify **From the RFID number** and **Quantity**, and click **Send command**.

If only one authorized RFID card needs to be deleted, set **Quantity** to **1**.




### 6.4.3 Managing RFID Cards

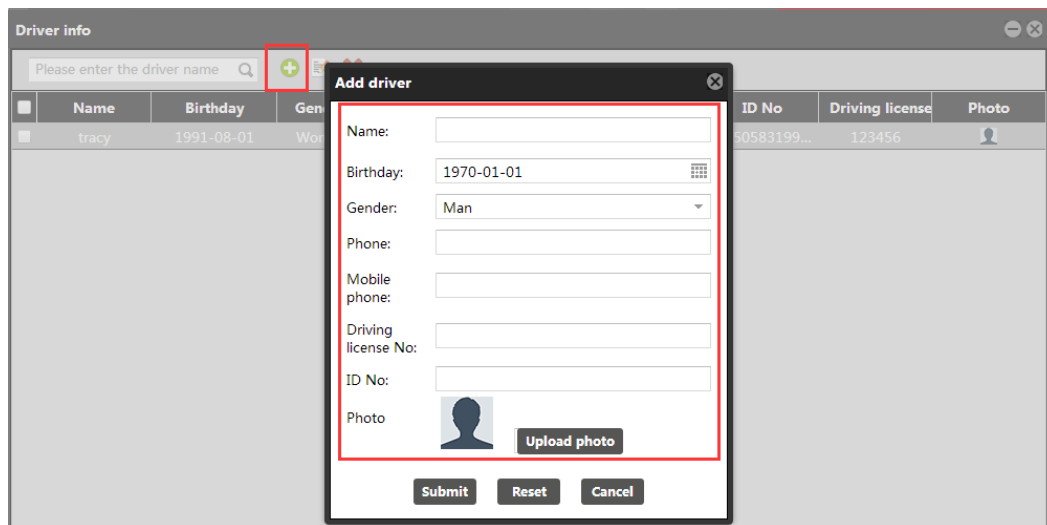
To collect statistics on drivers' driving records by driver I/O status report, add driver information first and then bind a driver to a RFID card.

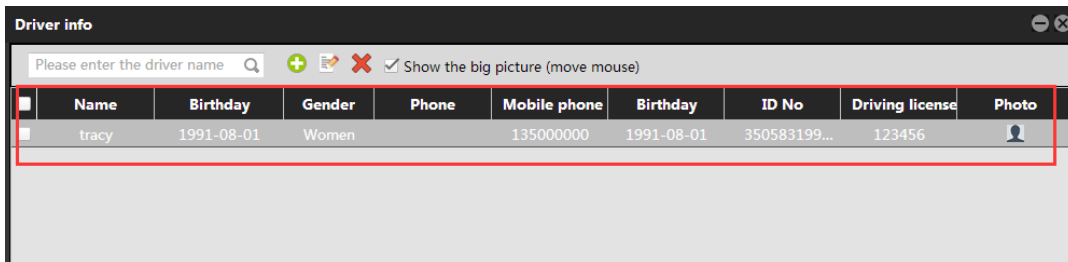
1. Add a driver.

On the main interface, choose **Management**.

On the **Management** window that is displayed, select **Driver Info** from **Use Normal**. The **Driver Info** window is displayed.

Click . On the **Add driver** window that is displayed, add driver information, and click **Submit**.

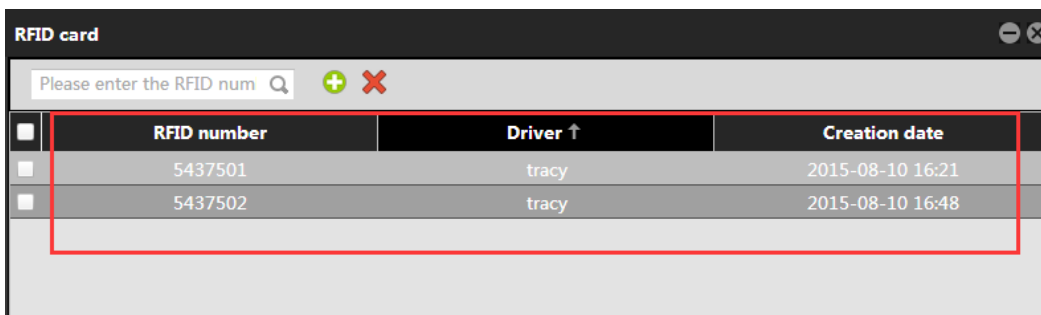
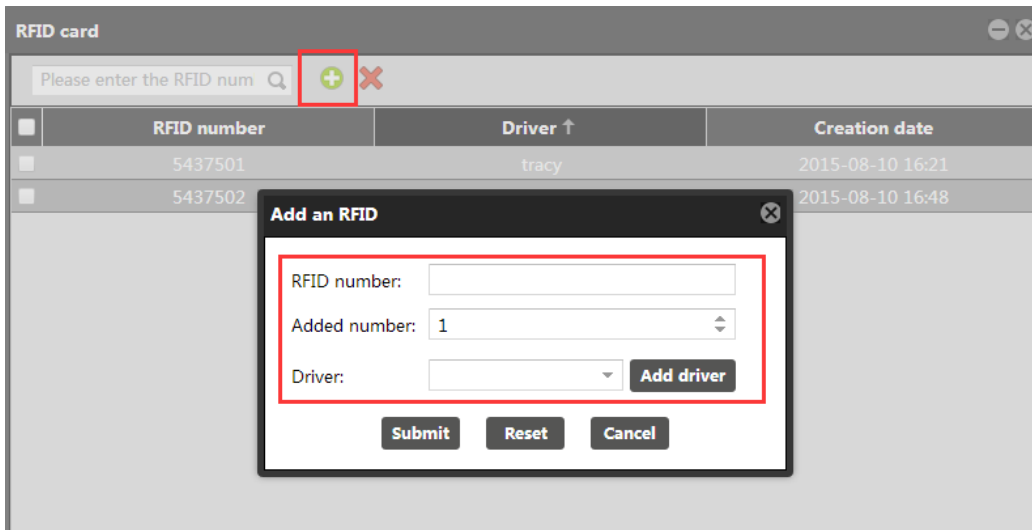




2. Add a RFID card.

On the **Management** window, select **RFID card** from **Use Normal**. The **RFID card** window is displayed.

Click . On the **Add an RFID** window that is displayed, set the RFID card number and bind a driver. These information will be included in a driver I/O status report.




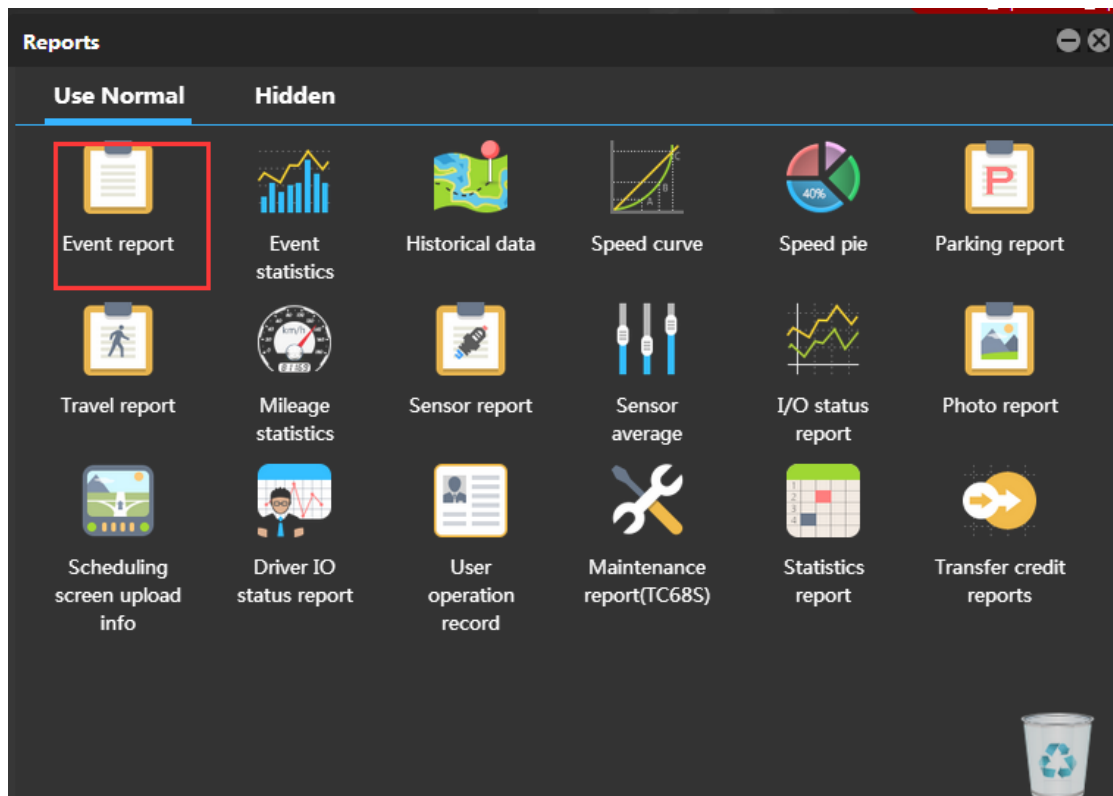
Note:

1. To manage RFID cards, driver information must be added first.
2. You can query a driver's driving mileage, parking time, time and location of starting or stopping the vehicle by driver I/O status report.

## 7 Querying Reports on MS03

### 7.1 Event Report

1. On the main interface, choose **Reports**.
2. On the **Reports** window that is displayed, select **Event report** from **Use Normal**. The **Event report** window is displayed.
3. Select a tracker and **RFID** from the **Event** drop-down list, set the query time, and click . The results about RFID readers will be displayed, as shown in the following figure.



Event report

Event:  Yesterday From: 2015-08-10 00:00 To: 2015-08-10 23:59 Address

Tracker name ↓	Alarm type	GPS time	Receiving time	GPS valid	Location	Speed	Latitude	Longitude
T1A-3505	RFID(5437501)	2015-08-10 16:55:55	2015-08-10 16:57:26	Valid		0.00	22.513541	114.057238
T1A-3505	RFID(5437501)	2015-08-10 17:02:10	2015-08-10 17:03:27	Valid		0.00	22.513560	114.057253
T1A-3505	RFID(5437501)	2015-08-10 17:06:09	2015-08-10 17:07:41	Valid		0.00	22.513548	114.057198
T1A-3505	RFID(5437501)	2015-08-10 17:17:03	2015-08-10 17:19:11	Valid		0.00	22.513595	114.057203
T1A-3505	RFID(5437501)	2015-08-10 17:21:01	2015-08-10 17:22:13	Valid		0.00	22.513580	114.057206
T1A-3505	RFID(5437501)	2015-08-10 17:22:19	2015-08-10 17:22:48	Valid		0.00	22.513591	114.057233
T1A-3505	RFID(5437501)	2015-08-10 17:32:15	2015-08-10 18:32:44	Valid		0.00	22.513625	114.057155
T1A-3505	RFID(5437501)	2015-08-10 17:40:32	2015-08-10 18:33:22	Valid		0.00	22.513585	114.057151
T1A-3505	RFID(5437501)	2015-08-10 17:40:32	2015-08-10 18:33:23	Valid		0.00	22.513585	114.057151
T1A-3505	RFID(5437501)	2015-08-10 17:52:25	2015-08-10 17:53:42	Valid		0.00	22.513613	114.057156

Please select a tracker.

## 7.2 Driver I/O Status Report

1. On the **Reports** window, select **Driver IO status report** from **Use Normal**. The **Driver IO status report** window is displayed.
2. Select a tracker or driver, set the I/O status and query time, and click . The driving records will be displayed.

The screenshot shows the 'Reports' window with 'Use Normal' selected. The 'Driver IO status report' icon is highlighted with a red box. Below it, the 'Driver IO status report' window is shown with the following parameters: Tracker name: T1A-3505, Input: Input3(All), Status: Active->Inacti, From: 2015-08-10 00:00, To: 2015-08-11. The table below contains the driving records.

Driver	Tracker name	Active Time	Inactive Time	Active Address	Inactive Address	Driving mil	Parking dura
tracy		2015-08-10 17:19:29	2015-08-10 17:21:01	22.51358,114.057178	22.51358,114.057206	0	00:01:32
tracy		2015-08-10 17:22:15	2015-08-10 17:22:19	22.513591,114.057235	22.513591,114.057233	0	00:00:04
tracy		2015-08-10 17:29:40	2015-08-10 17:32:15	22.513618,114.057155	22.513625,114.057155	0	00:02:34
tracy		2015-08-10 17:35:01	2015-08-10 17:35:02	22.513635,114.057185	22.513636,114.057185	0	00:00:01
tracy		2015-08-10 17:40:23	2015-08-10 17:40:32	22.513586,114.057153	22.513585,114.057151	0	00:00:09
tracy		2015-08-10 17:47:24	2015-08-10 17:47:59	22.513671,114.057216	22.513658,114.057201	0	00:00:34
tracy		2015-08-10 17:52:21	2015-08-10 17:52:25	22.513611,114.057156	22.513613,114.057156	0	00:00:04
tracy		2015-08-11 14:48:02	2015-08-11 14:48:18	22.513561,114.057318	22.513573,114.057308	0	00:00:16
tracy		2015-08-11 14:48:29	2015-08-11 14:48:35	22.513576,114.057303	22.513575,114.057306	0	00:00:06

Note: In this report, the T1/T333/MVT600's input 3 or T366/T366G's input 2 is connected to the engine detection cable. You can obtain the driver's driving time, mileage, and parking time from this report.

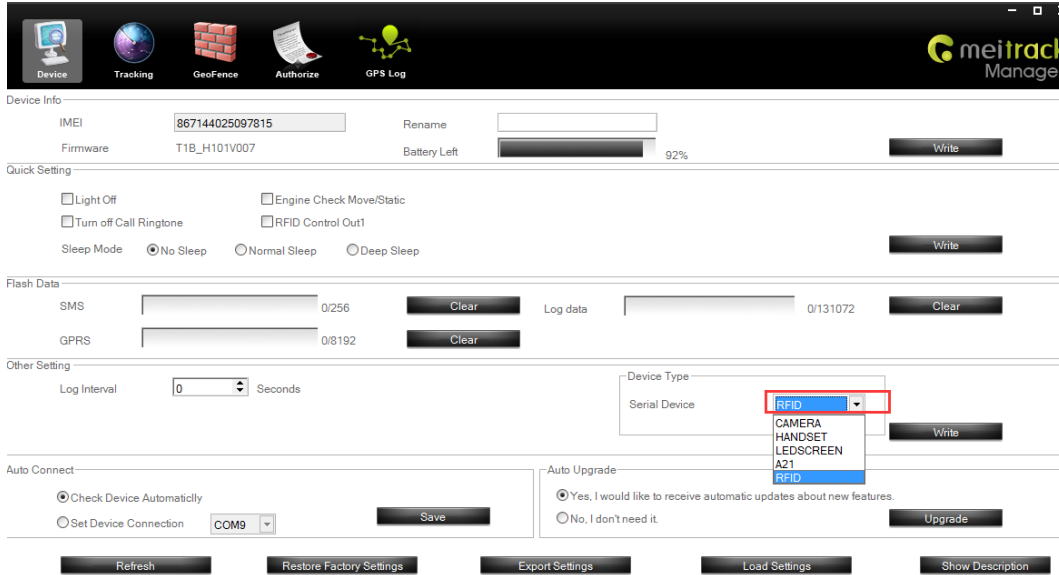
## 8 Firmware Version

- T1 firmware supports standard version and RFID version. Standard version: The firmware can be compatible with the handset, LED display, LCD display, and camera. RFID version: The firmware can be compatible with RFID (RFID reader + card) only.

T1\_Y50V131–T1\_Y50V157: The firmware supports RFID version.

T1\_Y50401 or later: The firmware supports RFID version.

T1B\_V001 or later: The firmware supports standard version and RFID version. You can select a peripheral by Meitrack Manager, as shown in the following figure.



- T333 firmware supports standard version and RFID version. Standard version: The firmware can be compatible with the handset, LED display, LCD display, and camera. RFID version: The firmware can be compatible with RFID (RFID reader + card) only.

T333\_Y50V005 or later: The firmware supports RFID version.

- The MVT600 firmware can be compatible with RFID (RFID reader + card) only.
- Only T366 RS232 version and T366G RS232 version support RFID.

T366\_V060 or later: The firmware supports RFID.

T366G\_V066 or later: The firmware supports RFID.

**If you have any questions, do not hesitate to email us at [info@meitrack.com](mailto:info@meitrack.com).**