WLS-T01

Quick Start

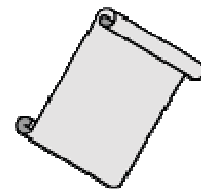# 1 What's in the Shipping Package?

The shipping package contains the following items:

WLS-T01
module

CR-123A 3.0v
Lithium battery
(4SI11G0000009)

Quick Start

If any of these items are missing or damaged, please contact your local distributor for more information. Save the shipping materials and cartons in case you need to ship the module in the future.

2 Preparing the Device

1. Use the Phillips screwdriver to loosen the back cover screws, open the case and place the CR123A 3.0v battery as shown in Figure 1。
   (CAUTION: Do not reverse the installation of the battery, and the battery is a disposable non-rechargeable lithium battery, do not use the charger to charge)

Loosen the back cover screws

overturned

Fig 1. Battery installation

2. Pressing the up (▲) or down (▼) button to wake up the WLS-T01, as shown in Figure 2, and confirm that the green LED is blink。If the green LED is blink, it means the module is running; if the green LED is not blink, it means the module is not running.
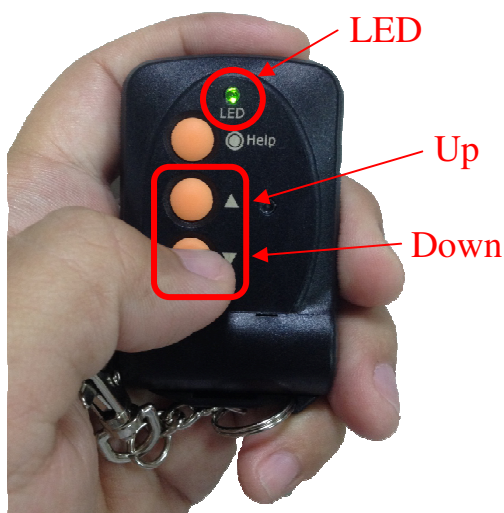
LED

Up

Down

Fig 2. Pressing the button

3 Mode, Button function and LED description

WLS-T01 has two built-in modes, "Running mode" and "Setting mode". The functions of these two modes are described as follows:

1. Running mode: This mode is used to transmit location package every 3 seconds in the background. In this mode, the user can press the button to send an alarm package or enter the setting mode. When the pre-job(section 2) is completed, WLS-T01 will default to the "Running Mode".

2. Setting mode: This mode is used to transmit Node ID forcefully, and set the RF Power and RF Channel by Button. If the user does not press any button for 8 seconds, the module will automatically save and directly enable the setting value, and then leave the "Setting Mode" to the "Running Mode".

In the above two modes, pressing different buttons will correspond to different functions, and various functions will be indicated by the different blinking frequency of LED. Please refer to Fig.3, Table 1 and Table 2:
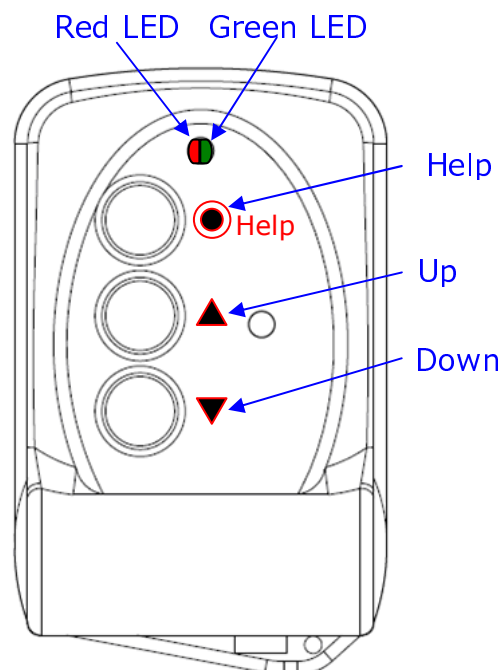

Fig 3. Product appearance

Table 1. Running mode description

Running mode (default)			
Item	Button	LED status	Description
1	●	Green LED blink once, and then red LED steady lit 1 second after 0.6 second.	Pressing the button for 0.6 second will transmit Help package.
2	▲+▼	Green LED blink every 0.5 second, and it change to red LED blink after 3 second. The setting mode is entered.	Pressing the two buttons together for 3 second will enter setting mode.
3	No pressing	Red LED blink every 3 second.	Battery is low power.

Table 2. Setting mode description

Setting mode			
Item	Button	LED status	Description
1	● : change to item 2 ▲ : none ▼ : none	Red LED blink every 0.2 second.	Automatically transmit Node ID of module.
2	● : change to item 3 ▲ : +1 ▼ : -1	A Red LED blink every 0.5 second. B When +1 or -1, green LED blink. If the value is equal to maximum value or minimum value , the green LED will continuous blink.	Setting wireless RF power, the minimum value to maximum value is 0 to F, 16 segments. The default value is F.

| 3 | ● : change to item 1 ▲ : +1 ▼ : -1 | A | Red LED blink every 1 second. | Setting wireless RF channel, the minimum value to maximum value is 0 to F, 16 segments. The default value is 4. |
| | | B | When +1 or -1, green LED blink. If the value is equal to maximum value or minimum value , the green LED will continuous blink. | |

4 Startup to use

Wireless Location System (WLS) includes the modules that RFU-400, WLS-T01, WLS-R01 and WLS software, as show in figure 4. The user need to check the wireless setting of each module as below. If the user need more detail about parameters of wireless setting, please refer to the user manual of each module.
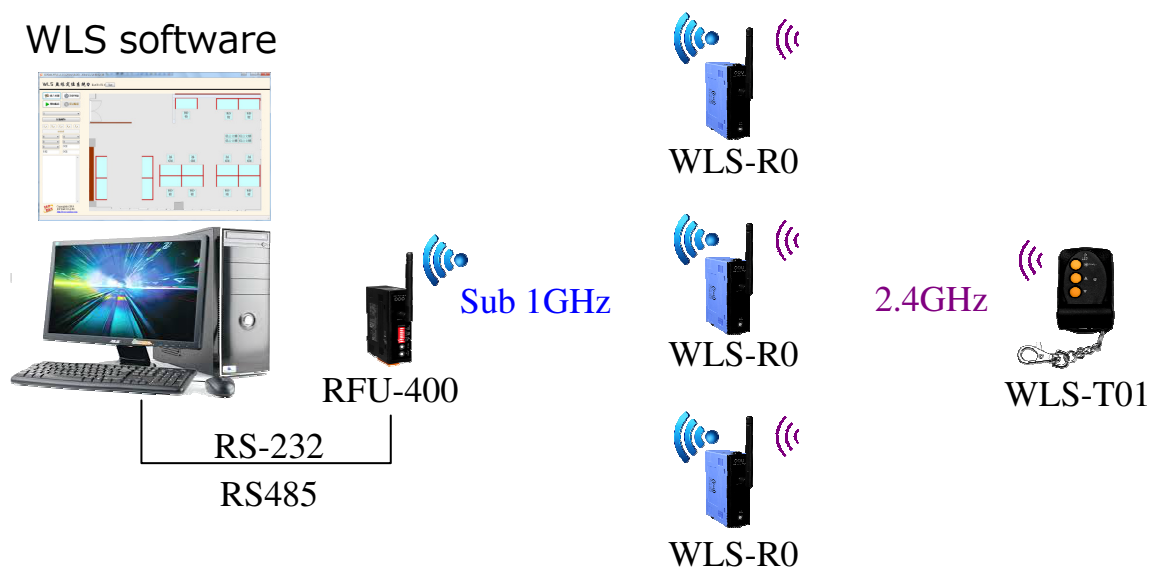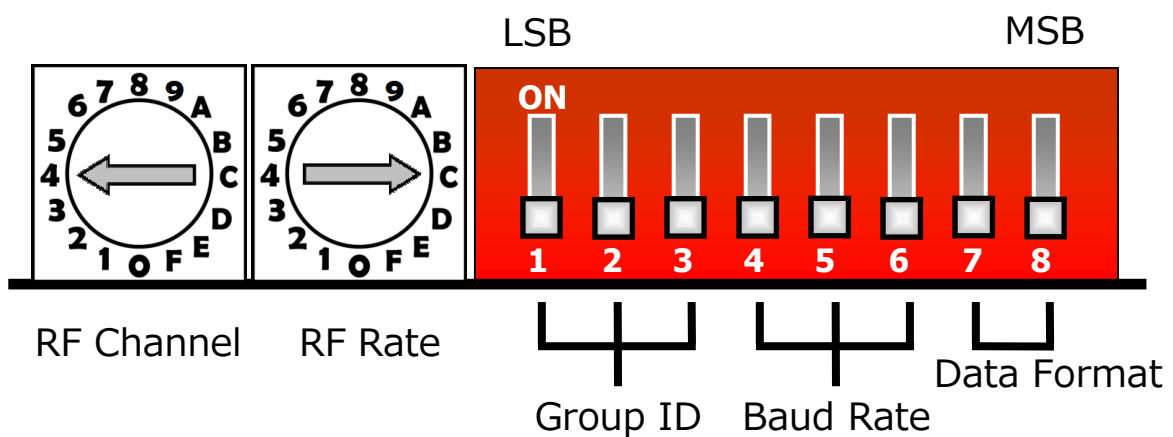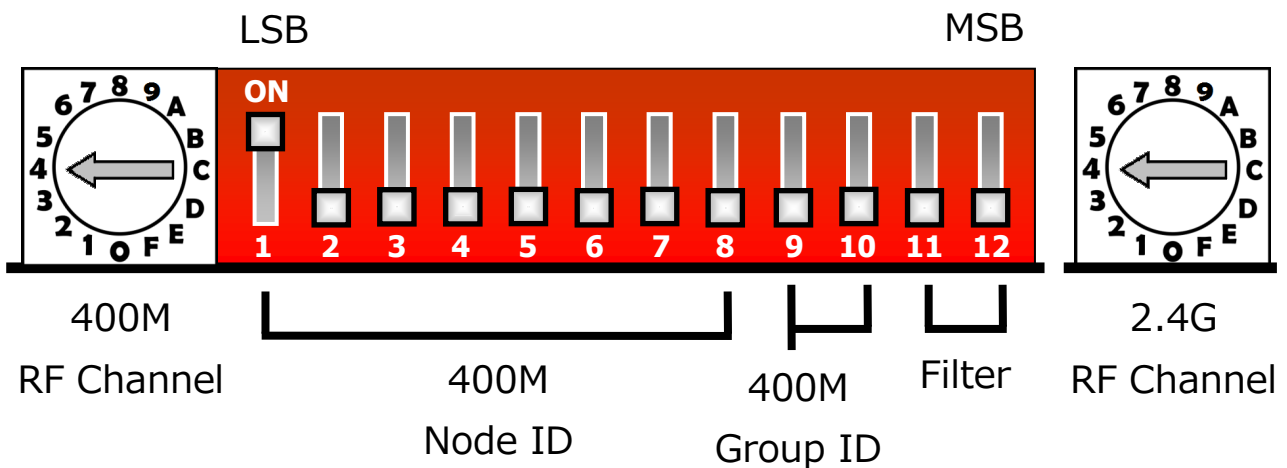

Fig 4. Wireless Location System Architecture

1. RFU-400 :

2. WLS-T01 :

It is not required to adjust the wireless setting of WLS-T01. The default value about RF channel is 4, RF power is F, Node ID is the last two bytes of build-in IEEE address. If the user adjust WLS-R01 2.4GHz RF channel to 4, the WLS-R01 will can receive the wireless package.

3. WLS-R01 :

5 Remarks

1. If you encounter any difficulties, please send the problem description to the service@icpdas.com mailbox, there will be someone to serve you.

2. If the user needs to replace the lithium battery, you can purchase in electronic business, or refer to accessories in the product page.