

User Manual

Product Name: Outdoor Probe

Model: ZGW11

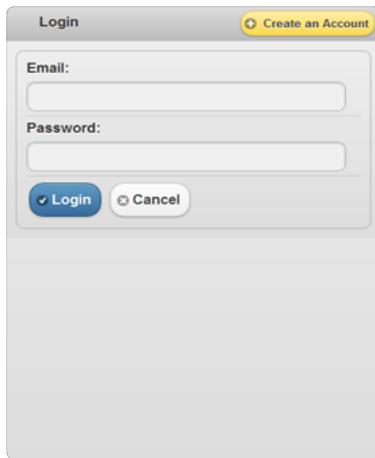
Brand: Wireless Sensor Tags

Manufacture: Cao Gadgets, LLC

Step 1: Activate Your Ethernet Tag Manager

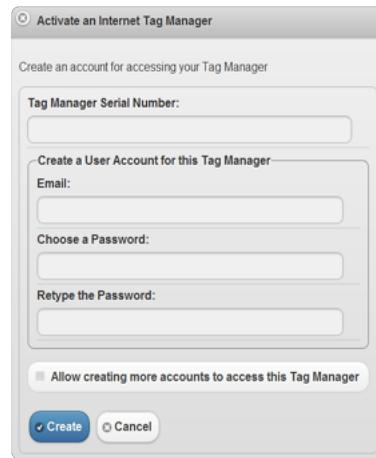
For Android devices, install our Android app from Google Play by searching "MyTagList".

For web access on PC/Mac, go to <http://www.mytaglist.com/eth/>. Use the 12 digit serial numbers on your Ethernet Tag Manager to create a login. Keep the serial number in a safe place.



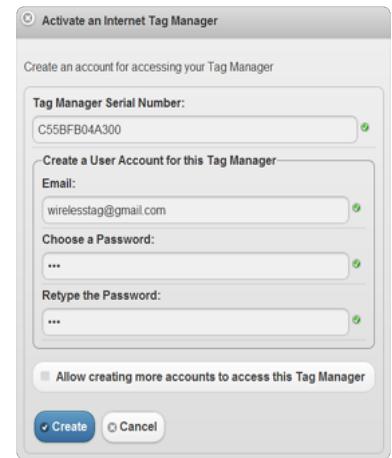
The image shows a 'Login' screen with two input fields for 'Email' and 'Password', and two buttons at the bottom: 'Login' (highlighted with a blue border) and 'Cancel'.

In the login screen, click "Create an Account" button.



The image shows a 'Create an Internet Tag Manager' screen. It has a 'Tag Manager Serial Number' field containing 'C55BFB04A300', a 'Create a User Account for this Tag Manager' section with fields for 'Email' (wirelesstag@gmail.com), 'Choose a Password', and 'Retype the Password', and a checkbox for 'Allow creating more accounts to access this Tag Manager'. At the bottom are 'Create' and 'Cancel' buttons.

Fill in the serial number (case insensitive), login email (used to recover password), and choose a password.

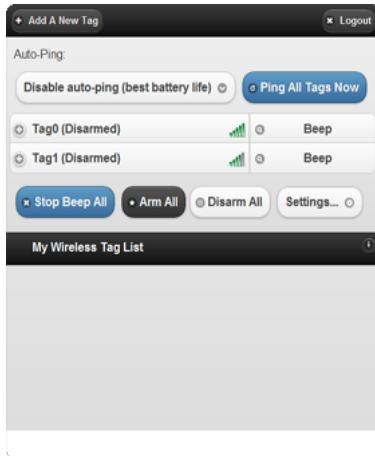


The image shows a 'Create an Internet Tag Manager' screen with a 'Tag Manager Serial Number' field containing 'C55BFB04A300'. The 'Create a User Account for this Tag Manager' section is identical to the previous screen. At the bottom are 'Create' and 'Cancel' buttons.

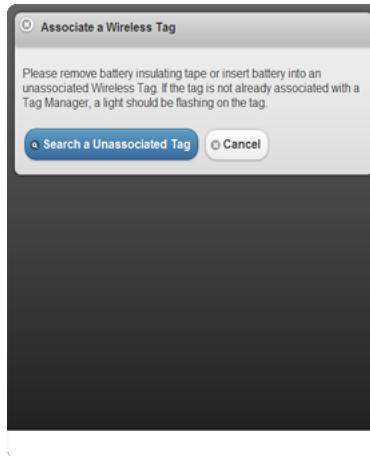
Click "Create" button to create an account. Uncheck "Allow creating more accounts..." unless you plan to create multiple logins to access the same Tag Manager.

Step 2: Associate New Wireless Sensor Tags (If Necessary)

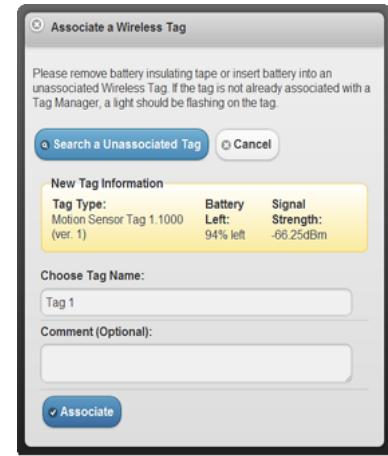
Follow this step to associate each new Tags with the Tag Manager.



In the tag list screen, click "+ Add a New Tag" button at the upper left corner.



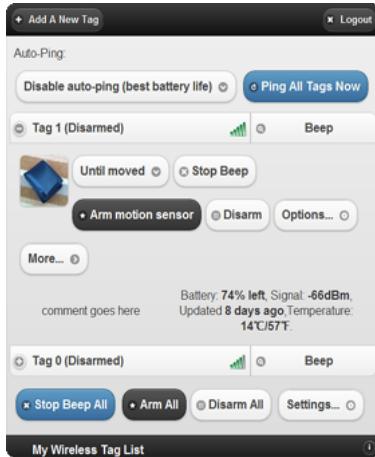
An unassociated tag periodically broadcasts information about itself when powered on. Click the "Search" button to receive this information.



When a new tag is found, its information is displayed. Assign a name and comment (optional) to the tag, then click "Associate".

Step 3: Assign Tag Names As Needed

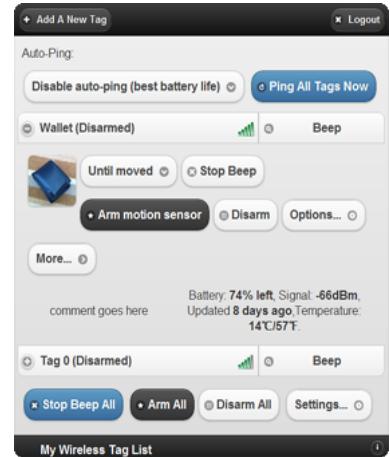
You can edit tag names and comments of each Wireless Sensor Tag. Pictures can be associated by using the iPhone/iPad app.



In the tag list screen, click on the tag you want to edit to open the detail pane.



Click "More>" and click "Change Tag name". Enter new tag name and click "OK".

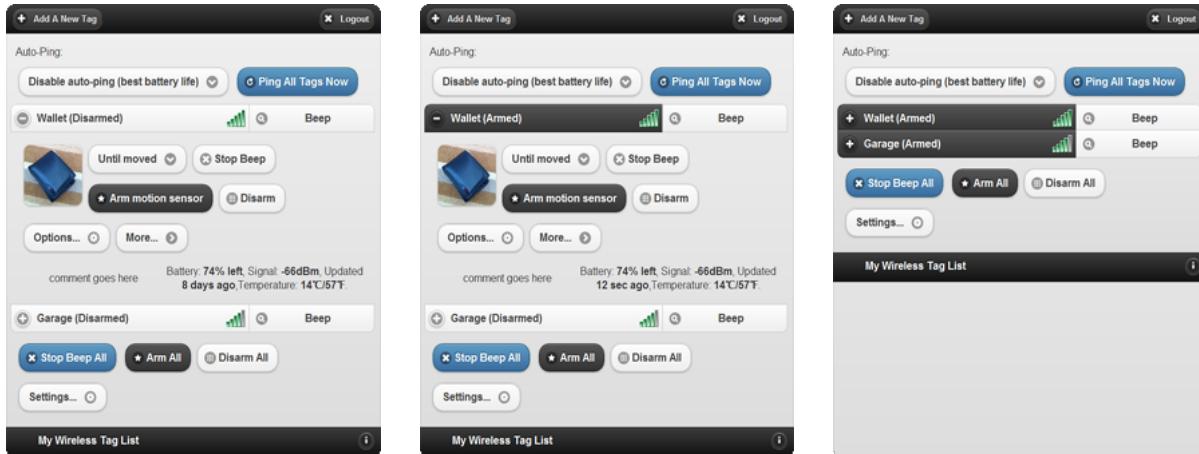


The new name is now assigned to the tag, and is automatically propagated to all other devices accessing the same tag list.

Step 4: Arm/Disarm Motion Sensor, Temperature Monitor, and Enable/Disable Out-of-Range Notification

Motion sensor, temperature monitoring, and out-of-range notification are turned off until they are needed to conserve battery. Follow the steps below to turn them on/off as needed.

Motion Sensor

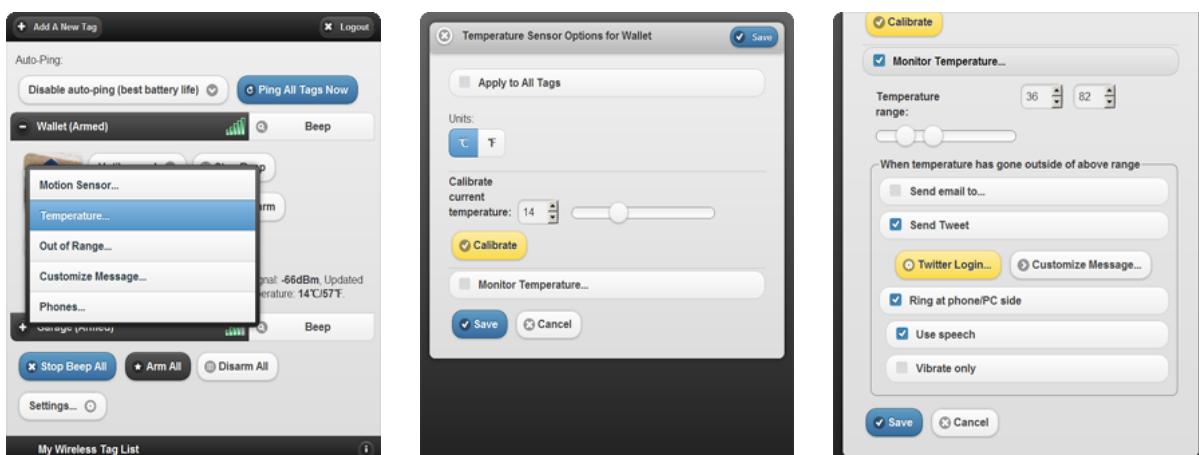


Click the tag of interest on the list screen to open the detail pane, and click the "Arm motion sensor" button.

Instead of arming/disarming motion sensor for each tag individually, you can also click "Arm All" or "Disarm All" to arm/diarm all motion sensor tags.

When motion sensor is armed, the tag on the list will have a black background.

Temperature Monitoring



Open the temperature sensor options for each tag individually by clicking "Options..." and choosing "Temperature...".

The temperature sensor often needs calibration to remove an offset. In the "Calibrate current temperature" section, set the correct current temperature, and click the "Calibrate" button.

Turn on "Monitor Temperature", define normal temperature range, choose notification settings you want, and click "Save". The tag will notify you when the temperature exceeds upper or lower limits, or returned to normal range.

Out-of-Range Notification

The image consists of three side-by-side screenshots of a software application titled "My Wireless Tag List".

- Screenshot 1 (Left):** Shows the main tag list screen. At the top, there are buttons for "Add A New Tag", "Logout", and "Ping All Tags Now". Below this is a section titled "Auto-Ping" with a dropdown menu showing options: "Every 2 minutes" (selected), "Every 30 seconds (worst battery life)", "Every 1 minute", "Every 2 minutes", "Every 30 minutes", "Every 1 hour", and "Every 4 hours". There are also buttons for "Ping All Tags Now", "Beep", "Stop Beep", "Stop Beep All", "Arm All", "Disarm All", "Settings...", and "My Wireless Tag List". A status bar at the bottom shows "Battery 74% left, Signal: -66dBm, Updated 20 hours ago, Temperature: 14°C/57°F".
- Screenshot 2 (Middle):** Shows a detailed view of a specific tag named "Wallet (Armed)". It includes a "Beep" button, a dropdown menu with options: "Motion Sensor...", "Temperature...", "Out of Range...", "Customize Message...", and "Phones...". Below this are buttons for "Stop Beep All", "Arm All", "Disarm All", and "Settings...". A status bar at the bottom shows "Signal: -66dBm, Updated 20 hours ago, Temperature: 14°C/57°F".
- Screenshot 3 (Right):** A modal dialog titled "Out of Range Notification Options for Wallet". It has a checkbox "Apply to All Tags" and a section "When Tag has gone out of range" with a checked checkbox "Send email to...". An input field "Email addresses (separate by ;):" contains "wirelessstag@gmail.com". Other options include "Send Tweet", "Twitter Login...", "Customize Message...", "Ring at phone/PC side" (checked), "Use speech", and "Vibrate only". At the bottom are "Save" and "Cancel" buttons.

At the top of tag list screen, choose any of the Auto-Ping: "Every ..." options. Longer interval results in longer battery life but longer the out-of-range notification delay, and vice versa.

Click the "Options..." button and choose "Out of Range..." for a specific tag.

Set the notification methods you want and click "Save". Check "Apply to All Tags" to enable out-of-range notification for all tags.

Motion Sensor Options:

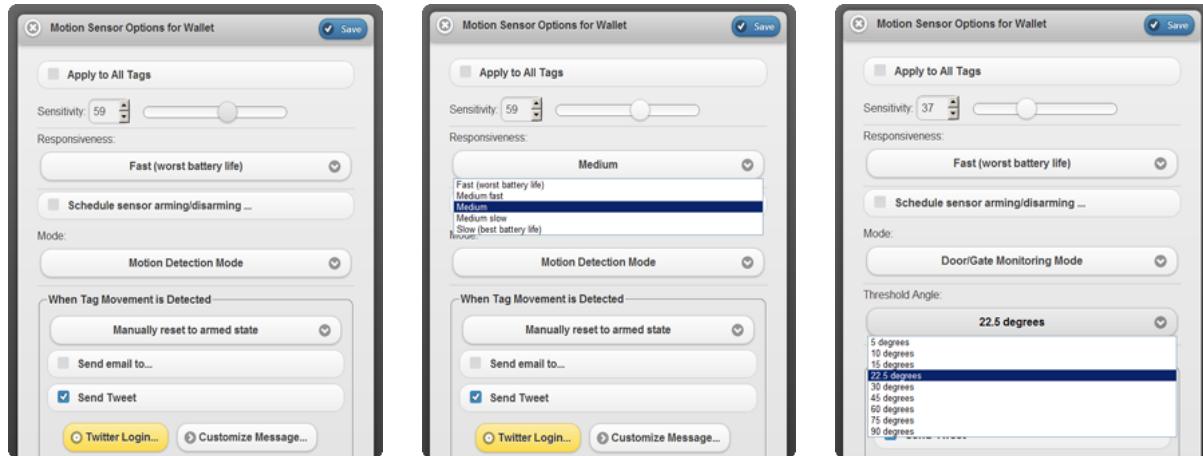
Sensitivity, Responsiveness, Notification Settings and Scheduling

Tune the sensitivity and responsiveness of the motion sensor to suit your application. In motion detection mode, choose to remember moved state indefinitely or reset to armed state after a while. In door/gate mode, choose the threshold angle (23 degree is recommended for automatic garage doors, 2~5 degree for regular doors), or choose to get notified only when door is opened for too long.

Choose to get notified by emails, tweets, speech, or whether to make tag beep upon motion.

Set the schedule to automatically arm or disarm the motion sensor at certain time of the day, and days of the week.

Sensitivity/Responsiveness

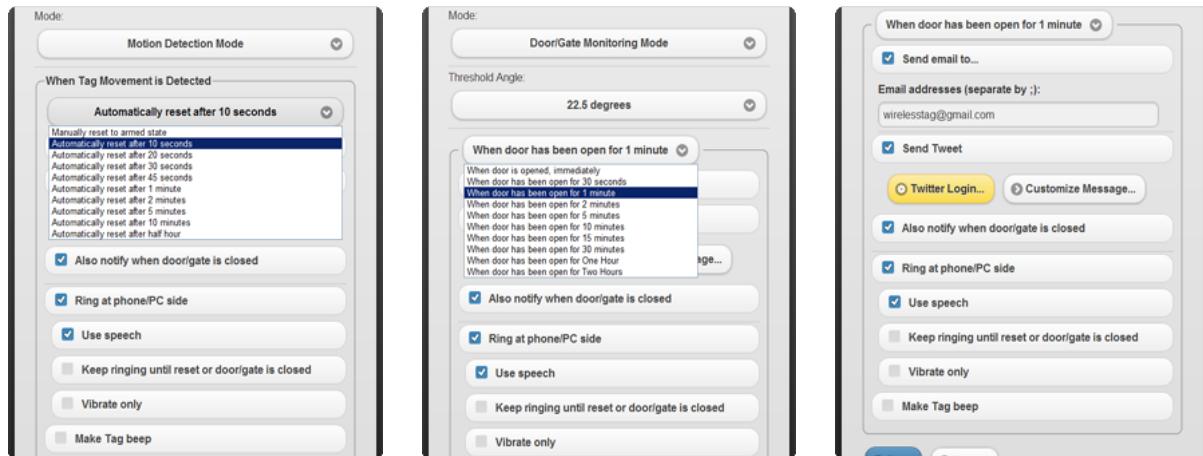


Click the "Options..." button to open Motion Sensor Optinos screen for an individual tag.

You can choose sensitivity (0 to 100, 50 is recommended to eliminate false alarms in most environment), and responsiveness ("Slow" is 12x the delay and battery life of "Fast") that best suit your application.

When door/gate mode is enabled, you can choose the threshold angle, when tag orientation changes more than this, the door is deemed open, when tag orientation returns within this threshold, it is deemed closed.

Notification Settings



When not in door/gate mode, after movement is detected, by default the system remembers the tag has been moved

When in door/gate mode, you can choose to be notified only when it is been open for longer than a certain time period.

You can choose to be notified by email, have the system post a tweet on your Twitter account, beep or speak on your phones,

indefinitely. Instead you can choose to have the tag automatically reset to armed state after a while.

or make the tag beep.

Arm/Disarm Scheduling



By setting an auto-arming/disarming schedule, you can specify time of day to disarm (for example, in the morning), and arm (for example, after dark), for each of the checked days of the week. To make motion sensor armed over the weekend, simply setting an "Arm at" time later than "Disarm at" time, and uncheck Saturday and Sunday.

Beeping a Tag, Stopping the Beep, and Beep Options

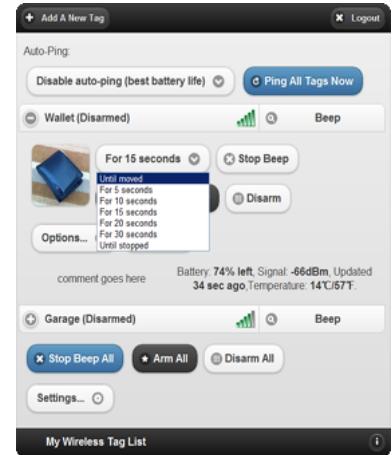
Every wireless sensor tag has a beep function to help you find missing tags. Attach the tag to key chains, put inside your wallet, or strap to TV remote controls, and never waste time looking for these items again.



In the tag list screen, click on "Beep" button of the tag you want to beep.



When tag responds and starts to beep, the "Beep" button turns into a blue "Stop Beep" button.



You can choose beep until moved, for 5,10,15,20,30 seconds, or indefinitely beep until stopped by the stop beep button.

Door Stats and Temperature Stats

Each tag automatically logs temperature and each time it is moved, opened or closed, so you can always check what happened while you were away.

Door Stats

Time	Type	How Long
10:25 AM	Opened	2 minutes 16 seconds
10:29 AM	Opened	24 seconds
10:30 AM	Opened	25 seconds
10:32 AM	Opened	1 minutes 16 seconds
1:12 PM	Opened	18 minutes 10 seconds
1:31 PM	Opened	22 seconds
1:34 PM	Opened	17 seconds
1:35 PM	Opened	30 seconds
1:37 PM	Opened	15 seconds
1:37 PM	Opened	25 seconds
1:38 PM	Opened	20 seconds
1:42 PM	Opened	5 minutes 41 seconds
1:49 PM	Opened	26 seconds
1:58 PM	Opened	40 seconds
1:59 PM	Opened	18 seconds
1:00 PM	Opened	25 seconds
2:03 PM	Opened	15 seconds
2:04 PM	Opened	26 seconds
2:35 PM	Opened	23 seconds
2:35 PM	Opened	20 seconds
2:36 PM	Opened	1 minutes 7 seconds
2:43 PM	Opened	31 seconds

In the tag detail pane, click "More..." button and choose "Door Statistics".

For every day in the past 2 months (when there is data available), number of times door is opened and average duration vs. time of the day are displayed.

When you click on anywhere on the graph for a particular date, a detail history for that date is displayed. You can sort by time of the day, how long the door has been open, or event type (opened or moved).

Temperature Stats

Temperature is transmitted periodically from each Tag to Tag manager at the interval specified at "Auto-Ping". Make sure it is not disabled.

After there is enough data captured, in the tag detail pane, click "More..." button and choose "Temperature Statistics".

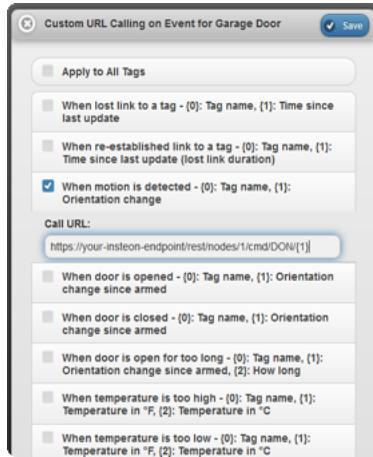
For every day in the past 2 months (when there is data available), temperature at that tag and battery voltage vs. time of the day are displayed. You can also download all available raw data in one CSV file.

Custom URL Calling on Event

You can define a custom URL (such as REST endpoint of home automation systems) to be called on each type of event for each tag individually or all tags. Each URL may include placeholders such as "{0}" or "{1}" to be replaced with specific information from each event. Configuring the URL and calling the URL through the Web is secured by SSL (https).



Click on a tag to open its detail pane, click "Options..." then choose "URL Calling...".



Click on the event(s) you want to enable URL calling, and enter the URL of your REST Web service.



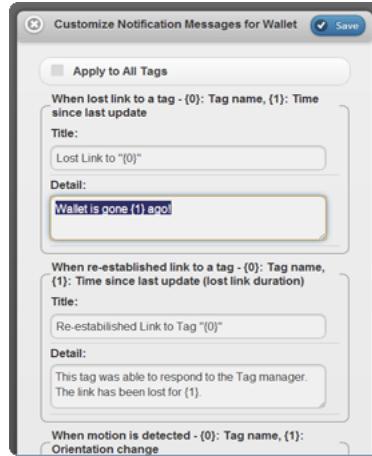
Together with Web service enabled home automation systems such as Insteon/ISY by Universal Devices, you can turn on the light when door is opened, or motion is detected, for example.

Customize Notification Messages

You can customize each type of notification messages for each tag individually or all tags by defining a custom template. Each template may include placeholders such as "{0}" or "{1}" which will be replaced with different information for each type of message. See a full list of customizable notification messages.



Click on a tag to open its detail pane, click "Options..." then choose "Customize Messages...".



For example, let's change the message sent when this Tag (Wallet) is out of range to a simpler one.



The Tweet sent when the tag "Wallet" is out-of-range now uses specified custom message. Notification message for other tags are not affected unless "Apply to All Tags" is checked.

Wireless Settings

Wireless Settings allows you to re-program the flash memory in each tag to use a different frequency to resolve interference problems, and to achieve a desired balance between range, battery life and response time.

Wireless Settings

Click the "Settings..." button at the bottom of screen and choose "Wireless".

The system remembers the previous (Old) settings and use it for tags whose flash memory failed to update. When you modify any of the "New Setting", estimated range and battery life will be calculated.

The longer the response time, or the faster the data rate, the longer the battery life. But faster data rate reduces range. Click the "Migrate" button and Tag Manager will attempt to update the flash memory of all tags to use the new settings.

Incomplete Migration

When a tag failed to be updated, its "Beep" button becomes a "Migrate Setting" button. Click on it to retry updating its flash memory. Before update succeeds, Tag Manager communicates with that Tag using the old wireless setting.

Since the Tag Manager has to remember the old wireless setting when there is still tag using it, you cannot introduce a third wireless setting until all tags on your tag list finishes migration to the new setting.

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.
2. This device must accept any interference received, including interference that may cause undesired operation.

Modifications: Any modifications made to this device that are not approved by Cao Gadgets LLC may void the authority granted to the user by the FCC to operate this equipment.

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.