



Cloud Wifi Attachment Manual

V2.0.1

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Cloud Wifi Attachment Unit

1. Communication port
2. RGB LED – Status
3. Programming USB port
4. Reset/Firmware Update button



Condition	LED
Solid Green	Factory Reset
Blink Green	Connecting to Wifi
Blink Blue	Needs Setup
Blink Magenta	Connecting to Cloud Server
Solid Cyan	Connected to Cloud Server
Blink Cyan	Transmitting/Receiving Data
Solid Yellow	Firmware Updating

Connecting your Reef Angel Cloud Wifi Attachment to the Head Unit

1. Inspect the provided communication cable. It has 2 black connectors at the end. One is 6 pin and the other is 8 pin.
2. Connect the 6 pin connector to the communication port of the Reef Angel Cloud Wifi Attachment.

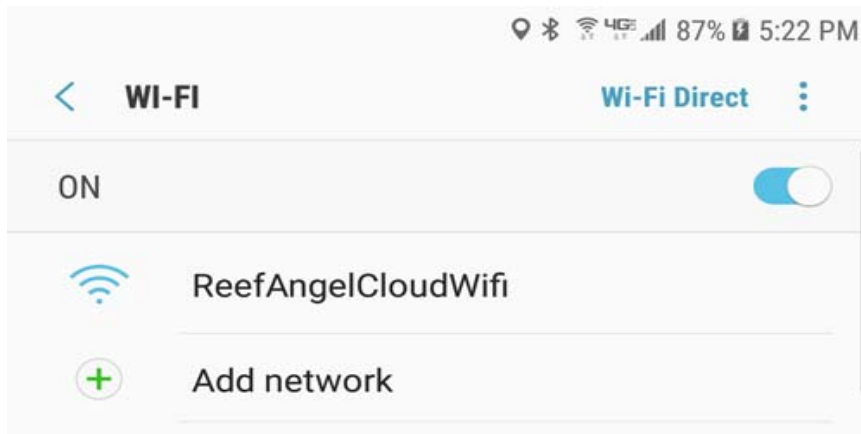


3. Connect the 8 pin connector to the Serial TTL port of the Reef Angel Head Unit.

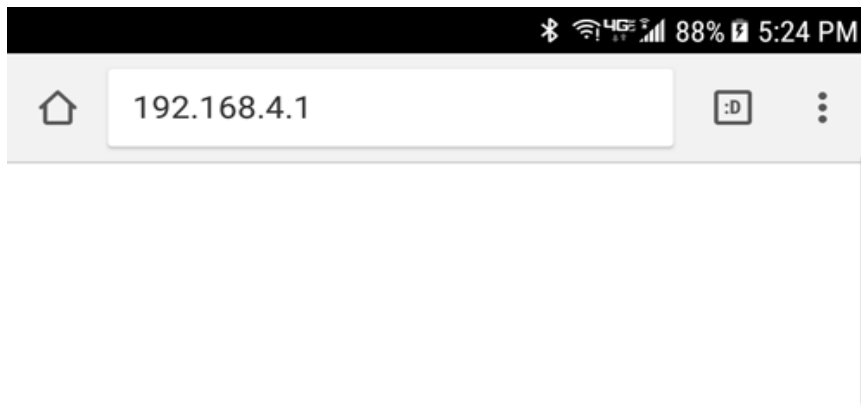


4. Every time you need to load codes to your Reef Angel Controller, you will need to disconnect the cloud wifi attachment.
5. Your Cloud Wifi Attachment will be blinking blue, indicating that you need to set it up.
6. To set up your unit, you will need to use your mobile phone. No app download required.
7. On your phone, scan your wifi networks and look for a network called "ReefAngelCloudWifi"

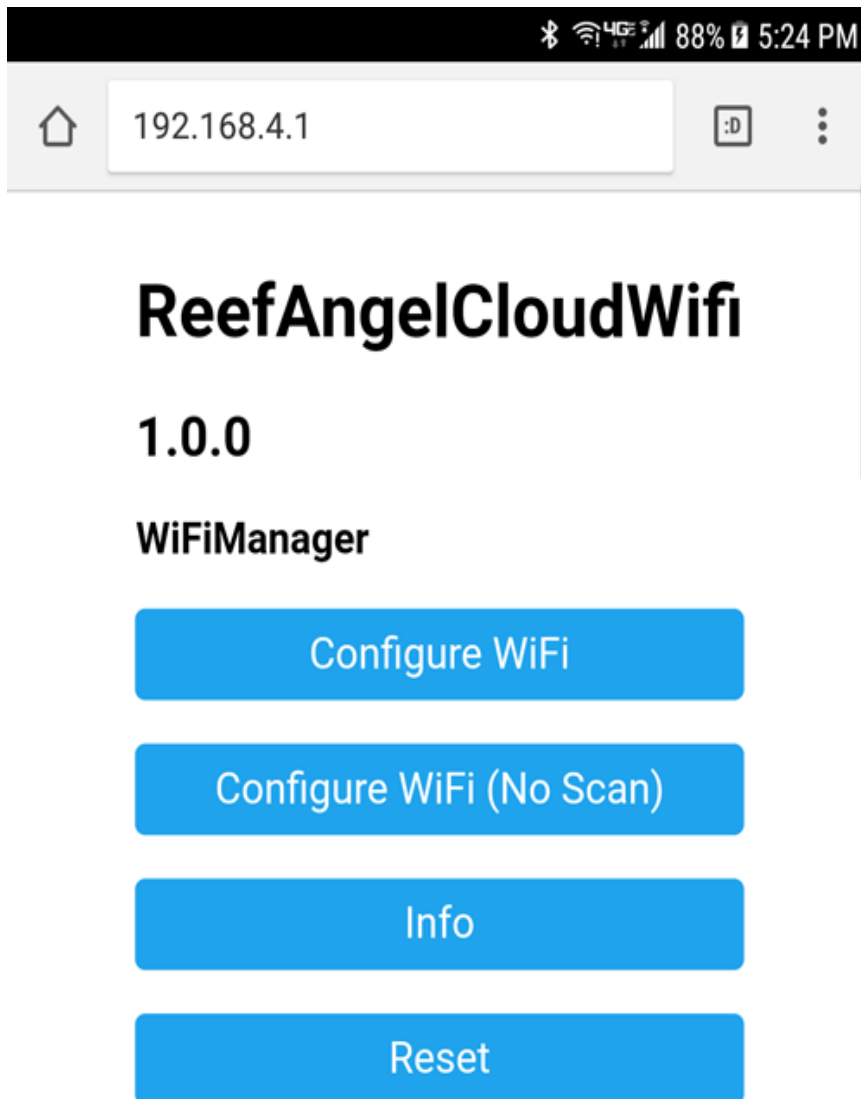
8. Connect to the network "ReefAngelCloudWifi". There is no password required for this network.



9. Once connected, open the browser on your phone and go to 192.168.4.1



10. Click the button "Configure Wifi"



11. Tap on your home wifi network and the SSID field will populate.

The screenshot shows a mobile browser interface. At the top, the status bar displays Bluetooth, Wi-Fi, 4G LTE, signal strength, 91% battery, and 5:29 PM. The browser's address bar contains a home icon, an information icon, the URL '192.168.4.1/wifi?', a camera icon, and a menu icon. The main content area shows a WiFi network entry for 'testing2' with a lock icon and '100%' signal strength. Below this are two input fields: the first contains the text 'testing2' and the second is labeled 'password'. Further down are two more input fields labeled 'Cloud Username' and 'Cloud Password'. At the bottom of the form is a large blue button with the text 'save'.

Scan

12. Enter the password for your home network
13. Enter your forum username on the “Cloud Username” field
14. Enter your forum password on the “Cloud Password” field
15. Click the Save button
16. Your cloud wifi attachment will start blinking green and if the password for your home wifi is correct, it will connect to the cloud server and start blinking cyan. If the password is incorrect, it will go back to blink blue and you will need to start over at step 7.
17. If you get a blinking cyan, you are all set and can start using your cloud wifi attachment.

Uploading a cloud capable code on your Reef Angel Controller

1. Open your web browser and go to: <http://forum.reefangel.com/webwizard>
2. Click on the menu icon on the top left side of the window
3. Click “Wizard”
4. Generate a new code you’re your Reef Angel and make sure to select “Cloud Wifi Attachment” on the Attachments page.
5. Upload the code to your Reef Angel Controller.

Note: More info on how to use the webwizard: <http://forum.reefangel.com/viewtopic.php?f=8&t=6199>

Testing your Reef Angel Cloud Wifi Attachment

6. Open your web browser and go to: <http://forum.reefangel.com/uapp>
7. Click the button "Settings" on the bottom of the screen.
8. Click "Add controller" button.
9. Enter a name of your choice and leave ip address and port blank.
10. Enter your forum username and password.
11. Click "Save"
12. Click the button "Status" on the bottom of the page.
13. If you entered the correct information, the Cloud Server status should show "Connected" and you will start seeing the live data streaming in the screen.
14. If the status shows "Disconnected", you either entered the wrong username/password or you may need to reset your password. Please see note below.
15. Your Reef Angel Controller is now connected to the Cloud Server and you are ready to start monitoring and controlling it.

Note: If your forum username was created prior to 11/01/16, you will need to reset the forum password. Please login to your forum profile at http://forum.reefangel.com/ucp.php?i=profile&mode=reg_details to reset it.

Resetting your Reef Angel Cloud Wifi Attachment to factory settings

1. Disconnect the cloud wifi attachment from your Reef Angel controller to power it off.
2. Insert a paper clip on the side of the pinhole (marked 4 on the picture) located on the side of the unit.



3. Connect your cloud wifi attachment to your Reef Angel controller to power it up while pressing the button with the paper clip.
4. The unit will turn to solid green and it will start the process of reverting back to factory settings.
5. Release the button and remove the paper clip from the pinhole.
6. This process takes about 30 seconds.
7. Once completed, the unit will start blinking blue again and you are ready to set it up again.

Updating the firmware of your Reef Angel Cloud Wifi Attachment

1. The firmware update can only be completed if you have a blinking cyan, indicating that the unit is connected to your home wifi network.
2. The firmware is downloaded from the internet, so it can only be performed if the module is online.
3. Insert a paper clip on the side of the pinhole (marked 4 on the picture) located on the side of the unit.



4. The unit will turn to solid yellow.
5. It will start downloading the firmware from the internet and perform the firmware update.
6. When it is completed, it will reboot with the new firmware. Your settings should be preserved with the firmware update.