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rfsolutions RIoT-MINIHUB RF Receiver and Monitor IoT Sensor Gateway User Guide

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Follow this procedure to

- Setup your Smart device to display the status of RF Receiver Outputs from Anywhere.
- Setup your Smart Device to control RF Receiver outputs from Anywhere
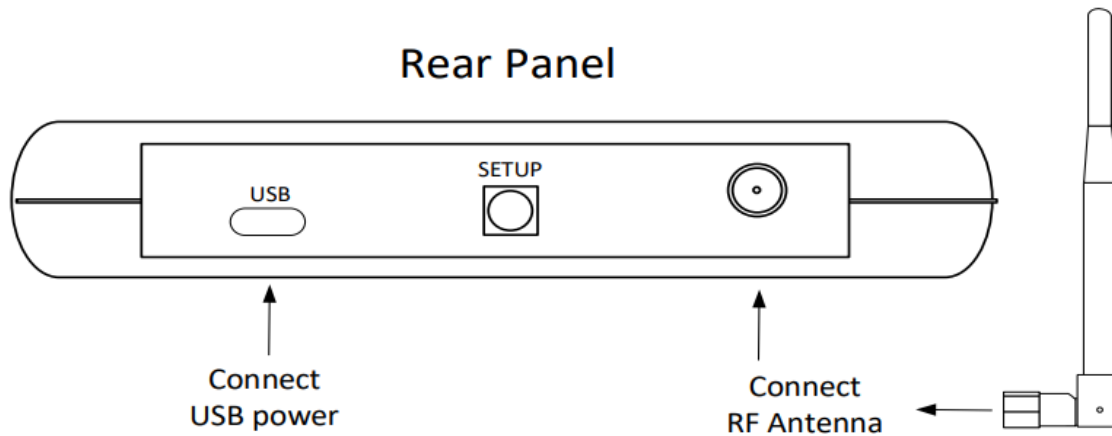
Contents

RIoT-MINIHUB Setup

1. Connect the Antenna
2. Connect the USB Cable to a USB power source

Once completed you can then configure your application

Throughout setup the RED Data LED on the front panel provides ALL feedback and status information!

Please be patient when configuring, with Wi-Fi, it can take up to 30 seconds for a confirmation or reset to complete!

Data LED	Operating Mode	Description
ON	Normal	RIoT-MINIHUB is connected to Wi-Fi
1x Flash/ Blink	RF Receive	RIoT-MINIHUB has received a signal from a paired RF Receiver
2x Flash	Setup Mode	In Setup Mode
3x Flash	Learn Mode	RIoT-MINIHUB is ready to Learn an RF Receiver
4x Flash	Wi-Fi Error	No Wi-Fi Connection
5x Flash	Webservice Error	Cannot connect via Internet

Setup Procedure: Before you Start

You need a Smartphone / Tablet or Smart device connected to your local Wi-Fi
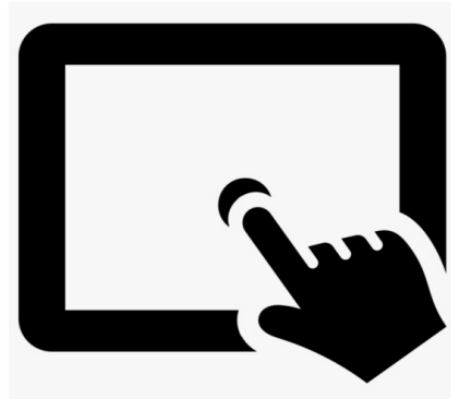
**Download & Install the following Apps from the App Store:**

You now need to complete the following Tasks

Stage	Description
1	Configure RIoT-MINIHUB to Login to your local Wi-Fi
2	Pair your Smart device with RIoT-MINIHUB
3	Pair an RF Receiver with RIoT-MINIHUB
4	Pair your Smart device to the RF Receiver

Stage 1
Configure RIoT-MINIHUB to your local Wi-Fi Using the RIoT MINIHUB Wi-Fi Wizard App And a Smart device

1. Press and hold the SETUP Switch on the RIoT-MINIHUB until the DATA LED on the front panel stays ON. (takes ~ 5 seconds)
2. Release the SETUP Switch
3. The Data LED will now Flash 2X. RIoT-MINIHUB is now broadcasting its own Wi-Fi SSID
4. On your Smart device run the Wi-Fi Wizard App
5. RIoT-MINIHUB SSID will appear on the Smart device app
6. Select "MHXXXX" and "Connect" to open the Wi-Fi Setup page.
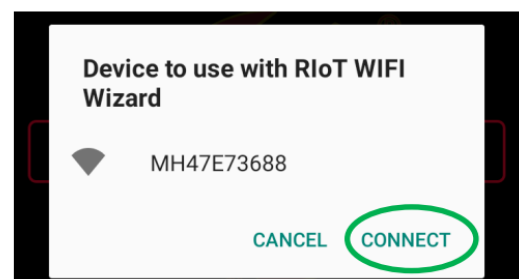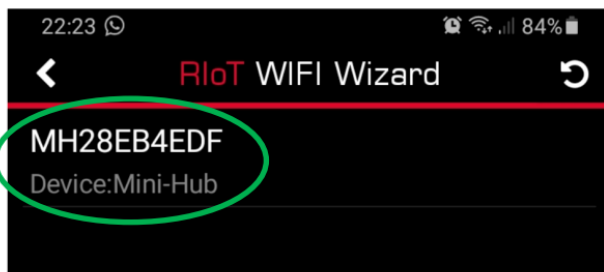
Complete the Table :

7. Select your local Wi-Fi network and enter Wi-Fi Password
8. Press "set" and "Reboot"
9. After reboot (allow 30 seconds), the RIoTMINIHUB will login to the local Wi-Fi and the LED will illuminate
10. Check the Red Data LED is on constantly, indicating that RIoT-MINIHUB is registered on the local Wi-Fi

Exit from the App and proceed to **Stage 2**

Stage 2 Pair your Smart Device with RIoT-MINIHUB
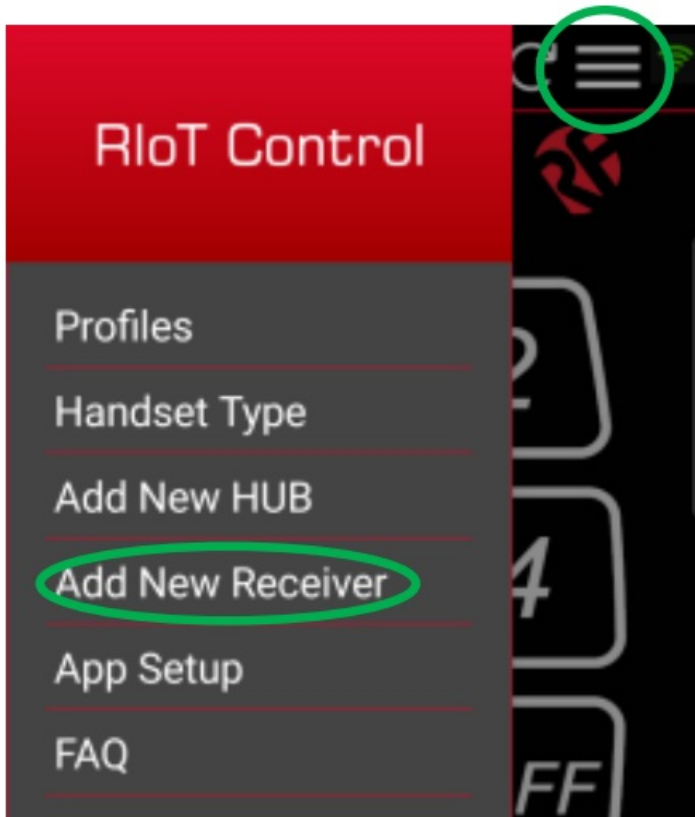
1. Run the CONTROL App

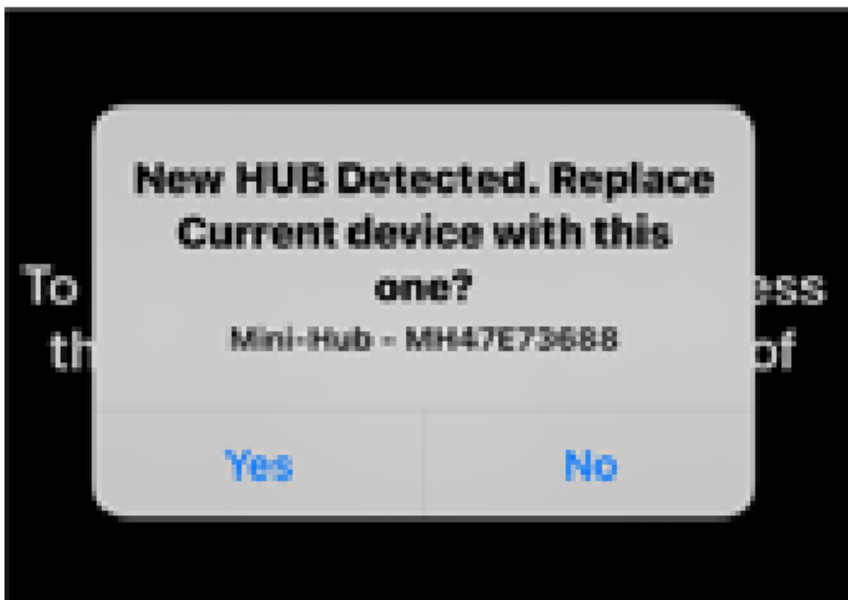
Google Play App

IOS Store

2. Select Menu, Add New Hub

3. Your Smart device is now ready to pair with the RIoT-MINIHUB

4. On the RIoT-MINIHUB briefly press and release the Setup Switch, (RIoTMINIHUB transmits a Learn Signal, The Data LED switches off briefly)

5. Control APP will show "Hub Detected"

6. Select, Yes

7. Your SMARTDEVICE is now paired with the RIoT-MINIHUB

8. Select OK to Exit the Hub Setup

Note: PROFILES

RIoT Control App can operate with Multiple RIoTMINIHUB's located in different locations.
In order to differentiate, these are set as "Profiles". So for Example the user may have;

A RIoT- Minihub at Home, another at Work, or in a shed! RIoT CONTROL App can communicate with each RIoT-MINIHUB as an individual "Profile".
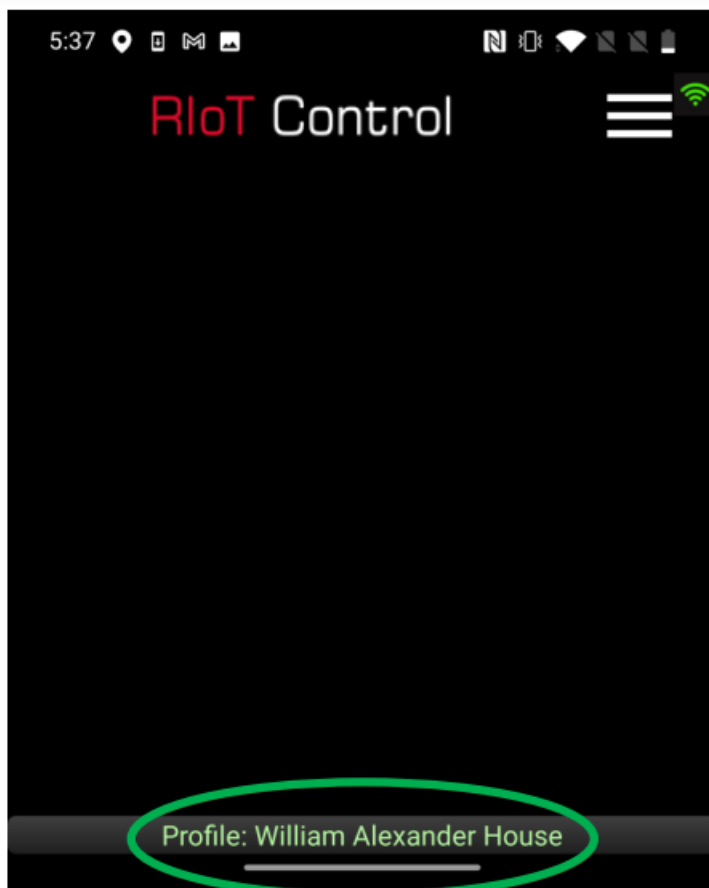
Stage 3 Pair an RF Receiver with RIoT-MINIHUB

1. Press the RIoT-MINIHUB Setup Switch until the Data LED starts to flash (takes ~1sec)
2. The Data LED will now flash 3X to indicate RIoTMINIHUB is ready to Learn an RF Sensor/ Switch or Transmitter
3. On your RF Receiver Transmit RIoT Learn Signal (please see the RF Receiver QS Guide)
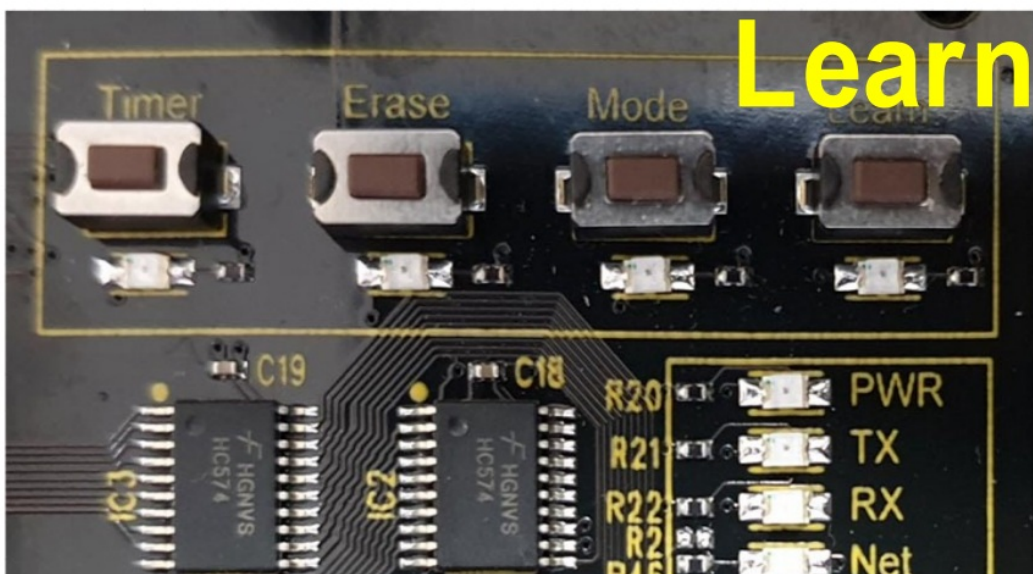
4. RIoT-MINIHUB confirms the pairing with 12X very fast flashes on the Data LED
5. RIoT-MINIHUB returns to normal operation (Data LED illuminates constantly).

Repeat this process for each RF Receiver to be Paired You can verify successful pairings as per below:
Operate the RF Receiver Learn Switch to transmit a signal.
The RIoT-MINIHUB will briefly flash its Data LED to show reception of a LEARNT RF Receiver.

Note: For some RF Receivers you can also present a magnet to operate the Learn Switch
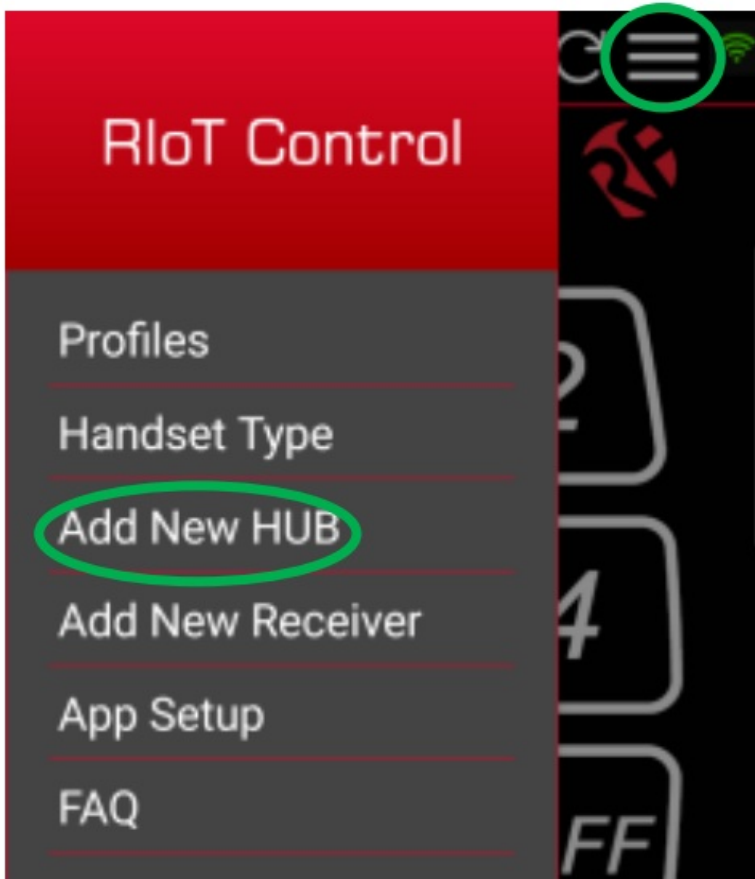
Stage 4 Pair an RF Receiver to Your Smart Device

In this stage you will pair a Receiver to your Smart Device app so the Receiver can Transmit its Outputs status to your Smart Device App Buttons. Then Pair your Smart Device Buttons to your chosen RF Receiver Output Relays
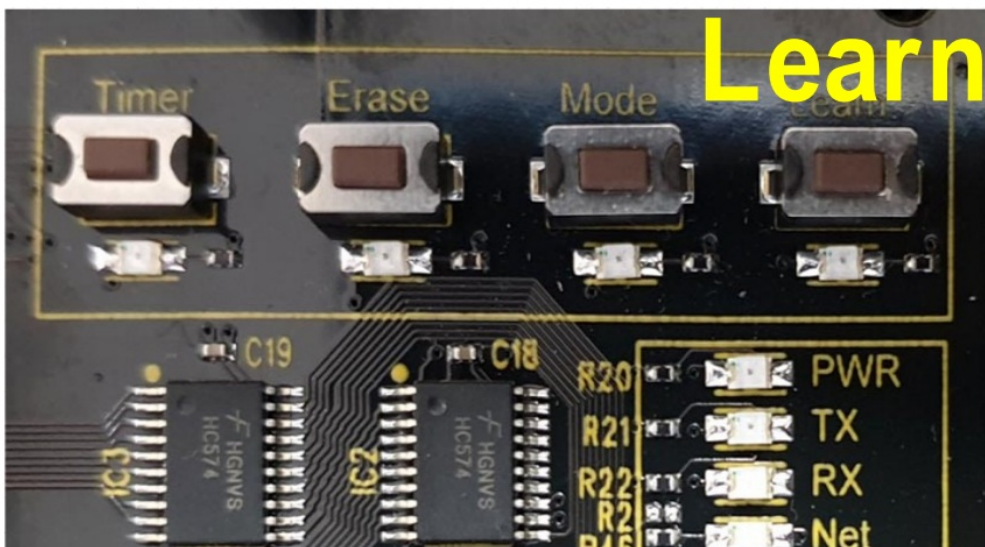
1. On your Smart device, open the CONTROL App
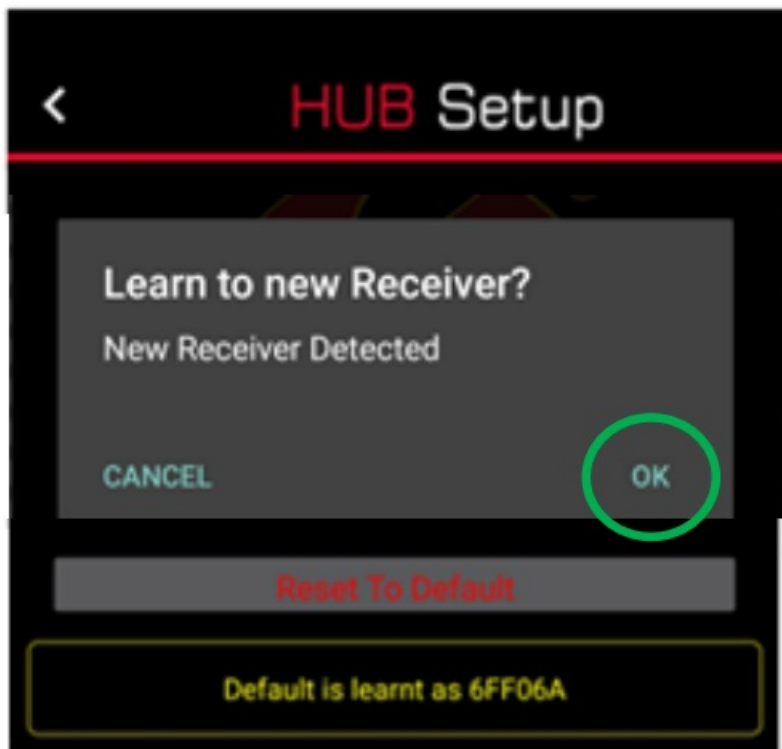

2. In home screen, from the menu select "Add New Receiver"

3. On the RF Receiver Briefly Press the "LEARN Switch" (or present a Magnet depending on your receiver) so that it transmits a LEARN signal

4. Press "OK" to confirm

Learn to new Receiver?
New Receiver Detected

CANCEL   OK

Reset To Default

Default is learnt as 6FF06A

5. From the Home Screen you can now use Your Smart Device the same as a standard RF Remote Transmitter.

6. You can now Pair together any of the Smart Device App Buttons to any Receiver
    Output, using the standard Receiver Pairing process. Please refer to the RF Receiver Quick start for this
    process.

RIoT Control

1   2
3   4
5   6
7   8

Profile: Default
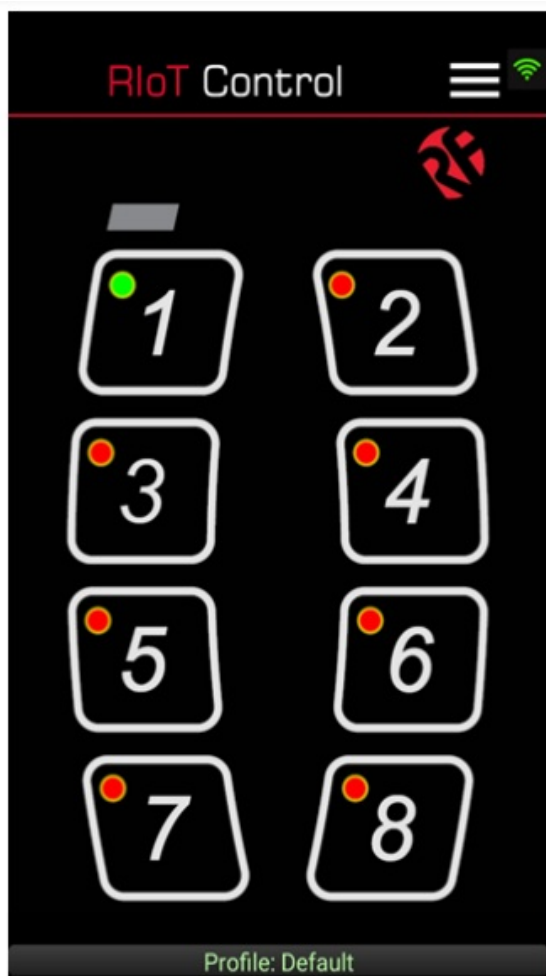
When this pairing is completed you will receive feedback from the RF Receiver to show the status of the outputs.

Green Dot = Output Activated
Red Dot = Output relaxed
Yellow Dot = Output not Acknowledged

You can now control your RF Receiver(s) outputs by pressing the App buttons You can also change the Handset Type, Turn Acknowledgement ON or OFF.
Many App Buttons, or Remote Transmitters can be learnt to the same RF Receiver, the limit is set by the Receiver Type.

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Documents / Resources

AML LDX10 Mobile Computer [pdf] User Manual
LDX10, TDX20, Mobile Computer

References

- **AML Mobile Computers and Kiosks**
- **junipersys.com/data/support/drvupdate-amd64.exe**
- **DC Software for Simple Barcode Data Collection Tasks – AML Mobile Computers and Kiosks**