

R-IoT Quickstart Guide

ircam
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Pompidou

1 Start Here

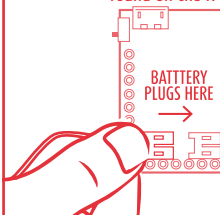
BITalino R-IoT is pre-programmed to connect to a network called "riot".



Data streams as Open Sound Control (OSC) messages to IP address 192.168.1.100 through port 8888.

2 Connect Battery

Plug the battery onto the socket found on the R-IoT block.



When the device is turned on, a red LED is lit. Then, it turns green and blinks while it tries to find the Wi-Fi network. When it connects to that network, the LED turns blue and stays on.

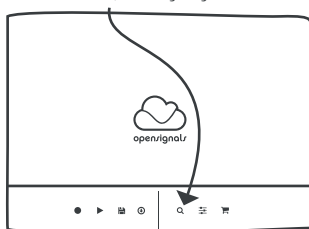
3 Have Fun!

At this point the BITalino R-IoT is already streaming data over UDP and ready to use.

One of the tools you can use to acquire data from the BITalino R-IoT is **OpenSignals**, (as described in the next steps), but any OSC-compatible software will work.

4 Launch OpenSignals

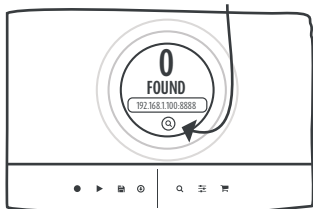
Press to configure your device.



This will enable you to configure your BITalino R-IoT for data acquisition on OpenSignals.

5 Enable Device

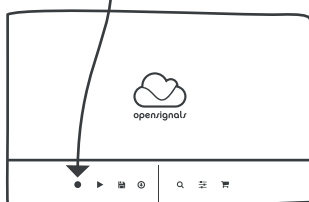
Press the button to manually add a device.



1. Set the computer's IP to static to match the one that R-IoT expect to find: **192.168.1.100**.
2. On the text box type **192.168.1.100:8888** and then press enter.

6 Have Fun!

Press (record).



You should now be able to see the data stream coming from the device

After stopping your recording, data can be saved through the button; please refer to the OpenSignals manual to learn all about its features.

By default BITalino R-IoT is configured to connect to a computer with the fixed IP address 192.168.1.100 on port 8888 over a network with SSID named "riot". These settings can be changed as shown on the back of this guide. See the **Connect to another network** section.

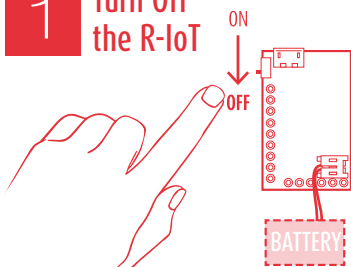
Have any questions? Visit:

www.bitalino.com for software and documentation
forum.bitalino.com to share your thoughts and projects
bitalino@plux.info to talk with our team

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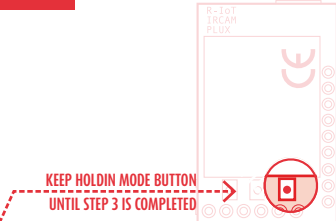
Connect to Another Network

1 Turn Off the R-IoT



Slide the switch to the OFF position.

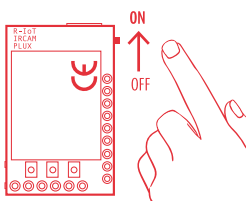
2 Set the R-IoT as Access Point



Press the "mode" button.

3 Turn On the R-IoT

Turn on your R-IoT device; the LED will blink red, turn green and then become static blue.



The device is now a WiFi access point.

4 Search for a R-IoT SSID

Search and connect for a WiFi network named RIOT-XXXX (xxxx are 4 random characters).

SSID#1
Connected, secured

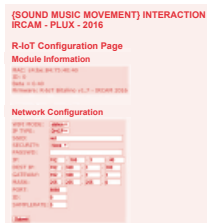
SSID#2
Secured

RIOT-1caa
Open

By default, the R-IoT WiFi network is open.

5 Setup Page

The following page will appear.



Here you can change the SSID, IP and other settings. Make sure that the Wi-Fi access point and the device's SSID match.

6 Have Fun!

Click on "Submit" button and then restart your device.

Submit

You're ready to go!

BITalino.com Offers



Software and APIs for data acquisition

<http://bitalino.com/en/software>
<http://bitalino.com/en/development/apis>



Detailed documentation to make the most of your device

<http://bitalino.com/en/learn/documentation>
<http://bitalino.com/en/learn/examples>

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