

UM0166 Realtek	RTL8710AF IFTTT	Example Guide
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Document Number: UM0166

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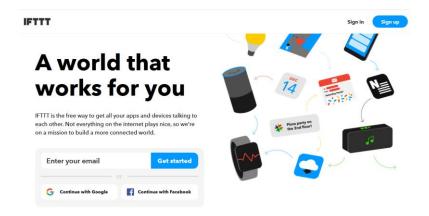


1 Introduction to IFTTT

If This Then That, also known as IFTTT, is a free web-based service to create chains of simple conditional statements, called applets. An applet is triggered by changes that occur within other web services such as Gmail, Facebook, Telegram, Instagram, Pinterest etc. For example, an applet may send an e-mail message if the user tweets using a hashtag, or copy a photo on Facebook to a user's archive if someone tags a user in a photo.

2 Setting up an IFTTT account.

In order to be able to use the IFTTT service it is necessary to make an account at https://ifttt.com/



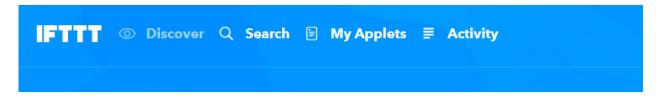
Once logged in, the home page of IFTTT is visible. There are many cloud services and online services that are integrated with the IFTTT platform.

3 Creating the applet for Ameba/RTL8710AF

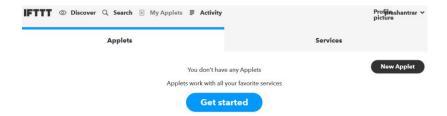
In order to run this example we use the HTTP POST feature of the ameba to post to a simple webhook service that is received by the IFTTT platform which can in turn be used to trigger a response. In this example the response that we have used is to send an Email. Hence when the Ameba board posts the HTTP request, an email is sent to the recipient specified in the IFTTT applet.



→ Click on the "My Applets" option from the home page after logging in



→ Once in the applets page, select "New Applet"



→ Once in the New Applet page, click on the "this" option as shown below in order to select the trigger.



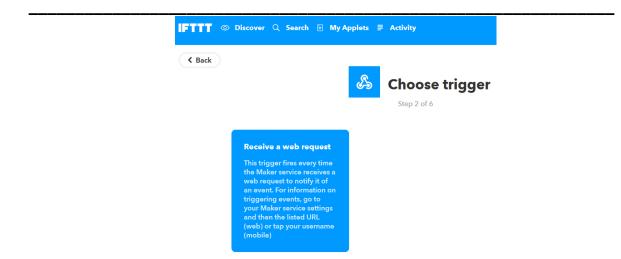
→ Once inside the option, choose the "Webhooks" service from the list of services as shown below. You can use the search bar to find the service.



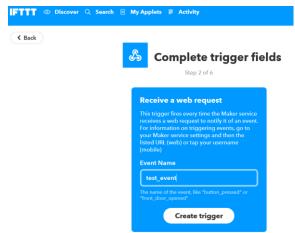
→ Once you choose the service, it shows you the triggers available with the service. In case of Webhooks there is only one trigger that the service provides which is "Receive a web request".







- → Select the web request by clicking on it.
- → Once the "Receive a web request" is selected, an event name that needs to be supplied to identify the trigger successfully. For the demonstration of this example the Event name is set as "test event"



- → Once the event name is set, click "Create trigger" to finish creating the trigger.
- → Once the trigger is created, we move on to choosing the "That" field to create the action that needs to be taken upon receiving the trigger.



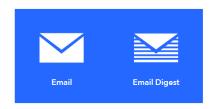
→ For this example, upon receiving the Webhook trigger from Ameba, we choose the email service as the action taken in response to the trigger and hence we choose "Email" from the list of services.



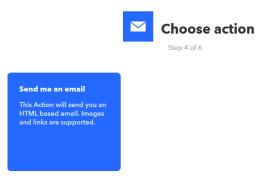
Choose action service

Step 3 of 6





→ Once the action service is selected, a list of actions that the service can provide is listed, in this demonstration, the Email service is capable of providing only one action "Send me an email" and hence we choose this action.



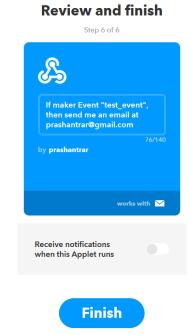
- → Click on the "Send me an email" box
- → Once you select the "Send me an email" action, in the next page, you can choose to edit the contents of the subject and body of the email that will be sent to you.





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- → If needed, the subject and body can be edited and you can click "Create action" to finish creating the response. It is to be noted here that the "Email" service sends an email as response to the mail ID that is registered to create the IFTTT account.
- → Once you have finished setting the trigger and response, click on "Finish" to finish creating the applet.



→ Once finished the applet is visible under the "My Applets" section in your IFTTT home page.

4 Programming the Ameba/RTL8710AF to post the trigger.

Once the applet is setup in the IFTTT dashboard, we need to use the example program to flash onto the board to post the HTTP request.

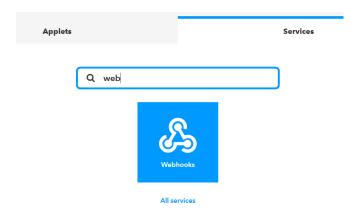
The example program is under the folder "HTTP_IFTTT_POST"

- → Click on the .ino file inside the example folder provided in the class to open the example with the Arduino IDE.
- → Once the program is open, 3 things need to be edited inside the code in order to make it work successfully.





- Edit the wi-fi credentials in order to connect to the wi-fi hotspot or access point of your choice.
- In the host name field enter the hostname of the IFTTT service "maker.ifttt.com"
- In the Path field enter the EventName and key field "trigger/<Event Name>/with/key/<key>"
 - Event name: The event name should be same as the one specified in the IFTTT applet. In this example, the event name is "test_event"
 - Key: In order to obtain a key, you need to look at the documentation tab of the Webhooks service in your IFTTT account once you are logged as shown below.
 - You can look up the Webhooks service in the "Services" tab.



 Once you click on Webhooks, you reach the Webhooks service page and then you can click on the "Documentation" tab on the top right corner.



In the documentation page, you will be able to see your key and how the HTTP request can be used as shown below.





Your key is: JfprrBS0dMWv6cZ0DksQQ

{ Back to service

To trigger an Event

Make a POST or GET web request to:

https://maker.ifttt.com/tzigger/[event]/with/key/JfprrBS0dMv6cZ0DksQQ

With an optional JSON body of:

{ "value1" : "" , "value2" : "value3" : "" , "value3" : "" }

The data is completely optional, and you can also pass value1, value2, and value3 as query parameters or form variables. This content will be passed on to the Action in your Recipe.

You can also try it with curl from a command line.

curl "X FOST https://maker.ifttt.com/trigger/[event]/with/key/JfprrBS0dMv6cZ0DksQQ

→ A sample of the completed code is as shown below.



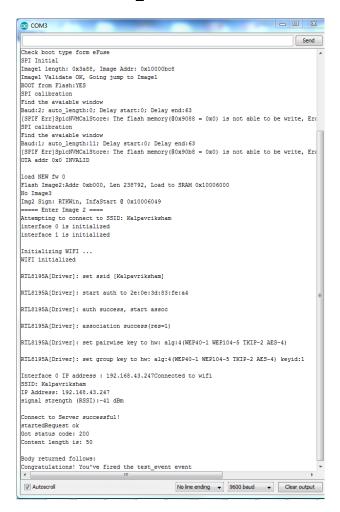
- → Once the example is setup, compile the code. Click on "Sketch" -> "Verify/Compile" on Arduino.

 Upload (flashed) the code onto Ameba (During the flashing, component D3 which will be blinking green on the board)
- → Once the upload (flashing) is completed (as seen that the component D3 on the board will stop flashing), "upload finish" will be reflected as a message at the bottom of the Arduino IDE window.
- → Open the serial monitor.
- → Press the "Reset" button to see the output logs.





If the event has been successfully fired, a body will be returned saying "Congratulations! You have fired the test_event event" as seen on the serial monitor.



Thereafter, an email is sent to the recipient specified in the IFTTT applet, an email notification will be received on the event. Check the email.