Easyconfig FAQ V1.1

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Content

1 Overview

Easyconfig features enable users to configure RAK Wi-Fi module get connect to router in a simple, fast, and reliable way.

2 How to use

(1) Power on module.

(2) Connect the phone to the wireless network with which module will be configured to connect.

(3) Open Easyconfig software. If the router is set with no password, click on Configure button. If the router has a password, enter the correct password, click the Configure button.

(4) Press easy-config button on the module or device.

(5) Configuration is successful if the Link light on the module flashes or mobile receives the return of MAC address and IP address.

Note: when configuring, firstly press the configuration button on the phone software, and then press the Easyconfig button on the module, this is a faster way for successful configuration than the opposite way.

3 Frequently Asked Questions

1. How to determine whether the module enters Easyconfig state? How to exit Easyconfig?

A: After press easyconfig button, the module enters into Easyconfig state, the Link light starts flashing slowly. The module will remain in Easyconfig state if no configuration, uninterruptible power, no reset module. Module can exit Easyconfig if configure correctly, reset or re-power.

2. During Easyconfig configuration, what is change process of Link light and its significance?

A: After enter easyconfig configuration, the module Link light starts flashing slowly; when module caught router information, Link light blacks out and start networking. When DHCP succeed and Link lights, it indicates network is connected, configuration is done successfully.

3. Why Easyconfig cannot configure into router? Why does Link light does not flash?

A: When Easyconfig is unsuccessful, there are several reasons:

(1) Operational problems, the password is incorrect.

(2) Module is too far away from the router, poor signal.

(3) Router is not enabled DHCP function, cause router IP assignment failure.

(4) DHCP of module itself fails, no connection with router.

(5) Complexity of network environment.

The recommended solutions:

(1) Correct operation, enter correct password and try again。

(2) Put module as close as possible to router and configure again, not too far away or no further than two walls away.

(3) From router setup interface, open the DHCP function.

(4) Put module as close as possible to router and configure again, not too far away or no further than two walls away.

(5) Do several attempts.

4. For Easyconfig configuration module, the Link light flashes, why phone did not receive return information?

A: Link light flashing indicates that the module is connected to router, Easyconfig has been successfully configured. However, DHCP assignment just takes too long time, the module did not return information to the phone itself within the time prescribed, then no information is received by the phone.

5. How to determine Easyconfig configuration is successful?

A: Whether Easyconfig configuration is successful depends on Link light, not on whether the phone has a return. As long as the module Link lights, it means successful Easyconfig configuration.

6. If configuration failed, how to restore the module to AP mode?

A: Long press easyconfig button for 5s or more, module can be restored to AP mode.

7. Does Easyconfig support configuration to the router with hidden SSID?

A: Easyconfig not supports the configuration of router to a hidden SSID. However, can set Route SSID open, until Easyconfig configuration is successfully connected, and then set Route SSID hidden.

8. Can Easyconfig configuration succeed if router AP isolation is turned on?

A: From wireless advanced configuration, AP isolation is checked, Easyconfig can be successful, and mobile client can receive the return data, just a little slow.

9. Can Easyconfig configuration succeed if router WMM is open?

A: Whether open or not, WMM will not affect Easyconfig configuration.

10. Can Easyconfig be configured to get connected to 5G router?

A: No. Wi-Fi module only supports 2.4GHz, 5GHz is not supported.

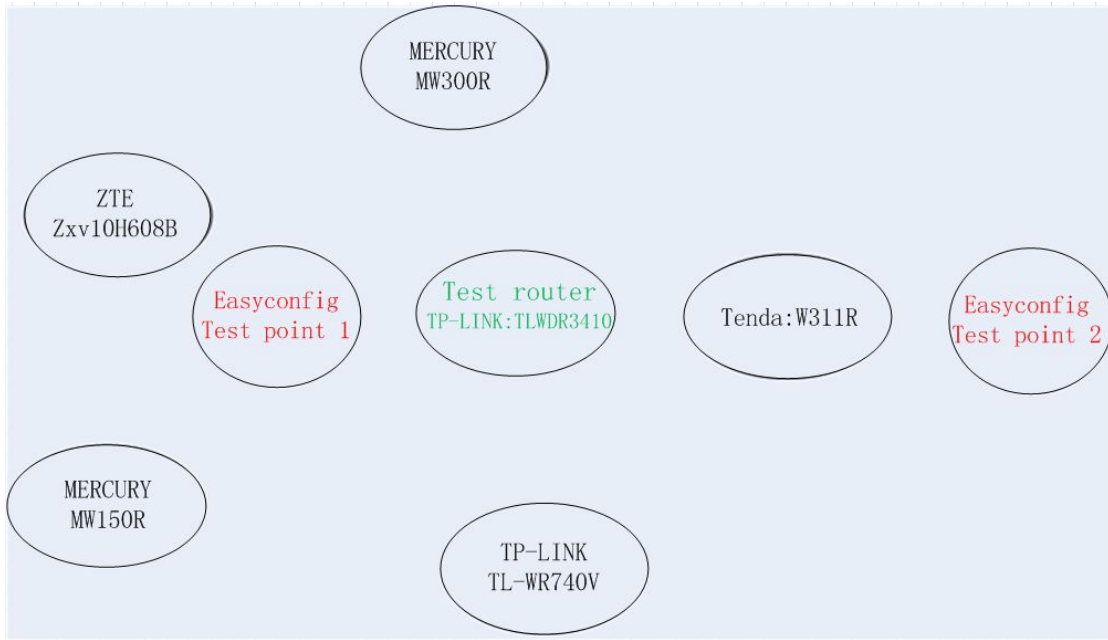**11. Which routers has Easyconfig conducted test on?　What is the success rate?**

A: We conducted the following tests:

Router Compatibility Test

Router Model	Times of test	Times of printing MAC	Times of successful scan	Times of successful connection	Times of successful DHCP	Times of successful phone
TPLINK:TL-WDR3410	3	3	3	3	3	3
TP-LINK:TL-WR740N	3	3	3	3	3	3
ZTE:zxv10H608B	3	3	3	3	3	3
MERCURY:MW150R	3	3	3	3	3	3
MERCURY:MW300R	3	3	3	3	3	3
D-LINK:DIR-600NB	3	3	3	3	3	3
Tenda:W311R	3	3	3	3	3	3
Netcore:NW705+	3	3	3	3	3	3

Channel Compatibility Test

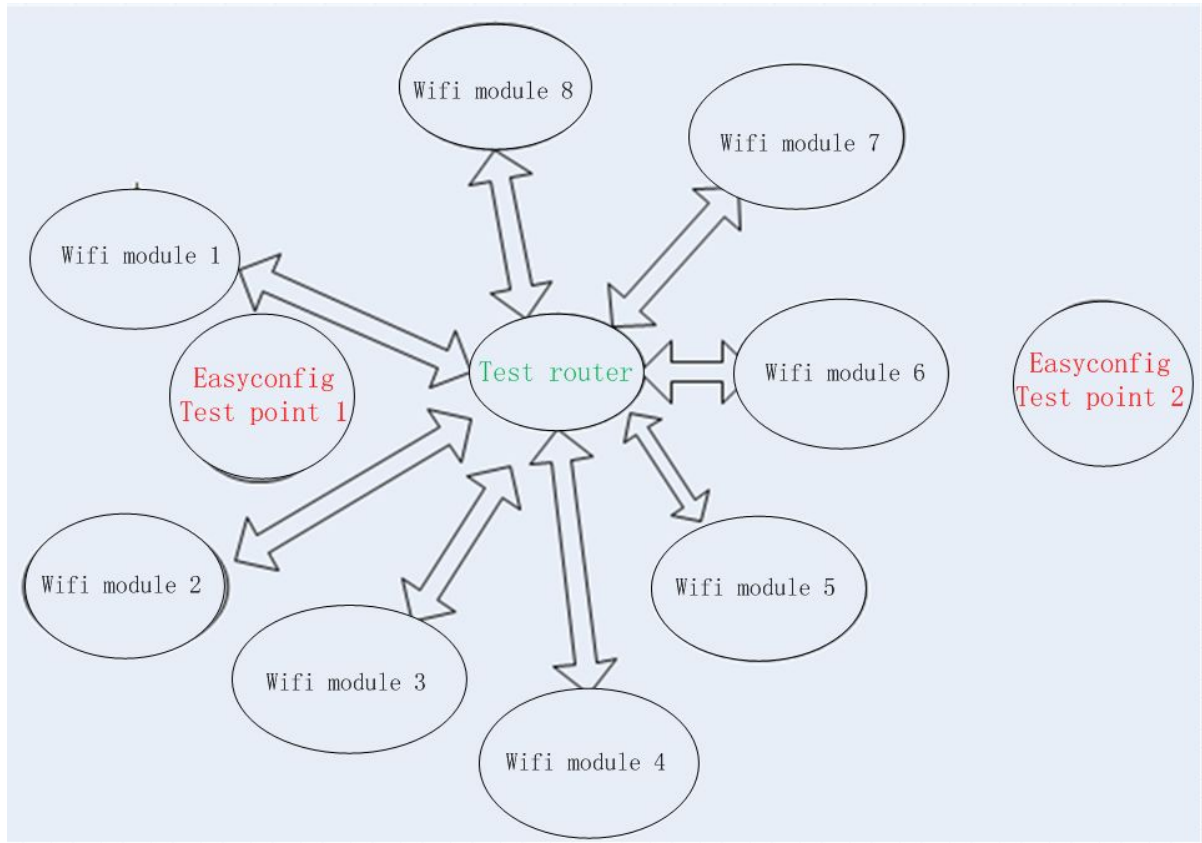| Channel	Times of test	Times of printing MAC	Times of successful scan	Times of successful connection	Times of successful DHCP	Times of successful phone
1	3	3 (2s)	3	3	3	3
2	3	3 (2s)	3	3	3	3
3	3	3 (2s)	3	3	3	3
4	3	3 (2s)	3	3	3	3
5	3	3 (1s)	3	3	3	3
6	3	3 (1s)	3	3	3	3
7	3	3 (1s)	3	3	3	3
8	3	3 (3s)	3	3	3	3
9	3	3 (3s)	3	3	3	3
10	3	3 (2s)	3	3	3	3
11	3	3 (1s)	3	3	3	3
12	3	3 (1s)	3	3	3	3
13	3	3 (2s)	3	3	3	3

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Immunity Test 1
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Immunity Test 1: Test Results

Test ID	Test Environment Description	Times of test	Test Point 1 Times of successful test	Test Point 2 Times of successful test
1	Interference routers and routers to be tested are in channel 1	3	3	3
2	Interference routers and routers to be tested are in channel 2	3	3	3
3	Interference routers and routers to be tested are in channel 3	3	3	3
4	Interference routers and routers to be tested are in channel 4	3	3	3
5	Interference routers and routers to be tested are in channel 5	3	3	3
6	Interference routers and routers to be tested are in channel 6	3	3	3
7	Interference routers and routers to be tested are in channel 7	3	3	3
8	Interference routers and routers to be tested are in channel 8	3	3	3
9	Interference routers and routers to be tested are in channel 9	3	3	3
10	Interference routers and routers to be tested are in channel 10	3	3	3
11	Interference routers and routers to be tested are in channel 11	3	3	3

12	Interference routers and routers to be tested are in channel 12	3	3	3
13	Interference routers and routers to be tested are in channel 13	3	3	3
14	Interference routers and routers to be tested are in different channels	3	3	3

Immunity Test 2

Immunity Test 2: Test Results

Test ID	Test Environment Description	Times of test	Test Point 1 Times of successful test	Test Point 2 Times of successful test
1	routers to be tested are in channel 1	3	3	3
2	routers to be tested are in channel 2	3	3	3
3	routers to be tested are in channel 3	3	3	3
4	routers to be tested are in channel 4	3	3	3
5	routers to be tested are in channel 5	3	3	3
6	routers to be tested are in channel 6	3	3	3
7	routers to be tested are in channel 7	3	3	3
8	routers to be tested are in channel 8	3	3	3

9	routers to be tested are in channel 9	3	3	3
10	routers to be tested are in channel 10	3	3	3
11	routers to be tested are in channel 11	3	3	3
12	routers to be tested are in channel 12	3	3	3
13	routers to be tested are in channel 13	3	3	3

12.　Why ipone6 failed to configure TP-LINK？

A：Because the router has opened WMM mode, you should close it.

13.　Easyconfig is configured, what does the router settings need to pay ?

A: (1)Do not open the router WMM mode.　　(2)Do not open the UPSD power saving mode.

4 Revision History

version	Modification	Date
V1.0	Initial draft	2014-11-06
V1.1	Add the problem 12&13	2014-03-26