

SKW72 EVB User Manual

Introduction

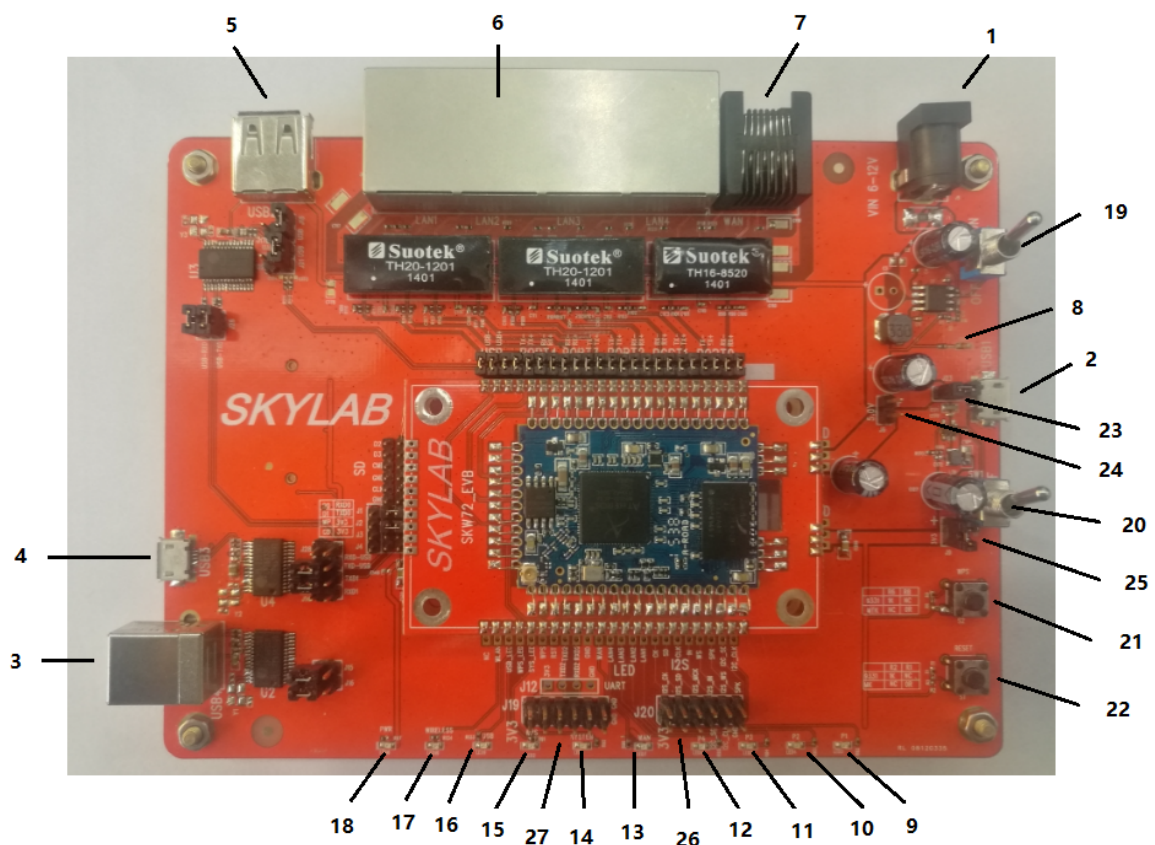
The SKW72 EVB offers a quick and easy way to evaluate the SKW72 module and the SKW72 is a 802.11n/ b/g AP WiFi module.

The Evaluation Kit is including the following items:

1. One SKW72 module.
2. One SKW72 EVB.
3. One DC adaptor with micro USB connector cable.
4. One WIFI antenna.
5. This Manual.

EVB Details

This section describes the various interfaces and switch settings for the SKW72-EVB board.



1. Table EVB details.

No.	Connector	Function Discription
1	DC Power Connector	DC 6-15V Input

2	Micro USB Power Cconnector	USB DC 5V Input
3	USB Type-B Port for USB to UART	UART0:USB TO TTL
4	Micro USB Port for USB to UART	UART1:USB TO TTL
5	USB Type-A Port	USB Slave Device
6	RJ45 Port	LAN Port
7	RJ45 Port	WAN Port

No.	Function Discription	No.	Function Discription
8	5V Power LED	21	WPS Push Button
9--12	LAN LED	22	Reset Push Button
13	WAN LED		
14	System LED	23	USB 5V Header
15	WPS LED	24	Module 5V Header
16	USB Device LED	25	Module 3.3V Header
17	Wireless LED		
18	3.3V Power LED	26	I2S & I2C Header
		27	UART Header
19	5V Power Switch		
20	3.3V Power Switch		

1. Logging in to the Module Web

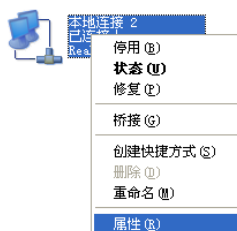
1) Connected SKW72 LAN port and PC's RJ45 port;

2) Setup IP address:

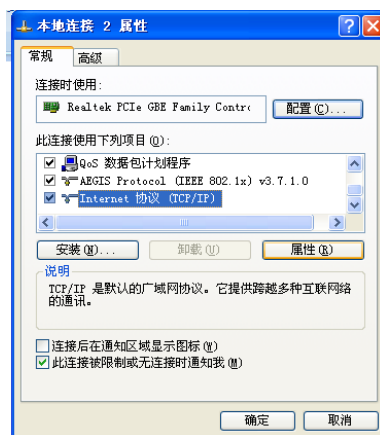
Step 1: Right-click the "local connection. This pic is chinese version.



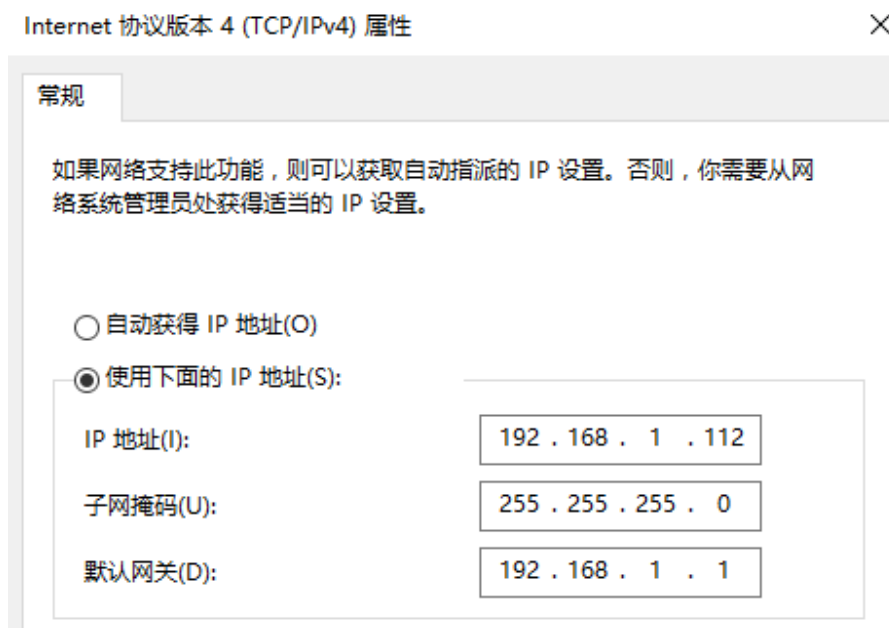
Step 2: Click "attribute"



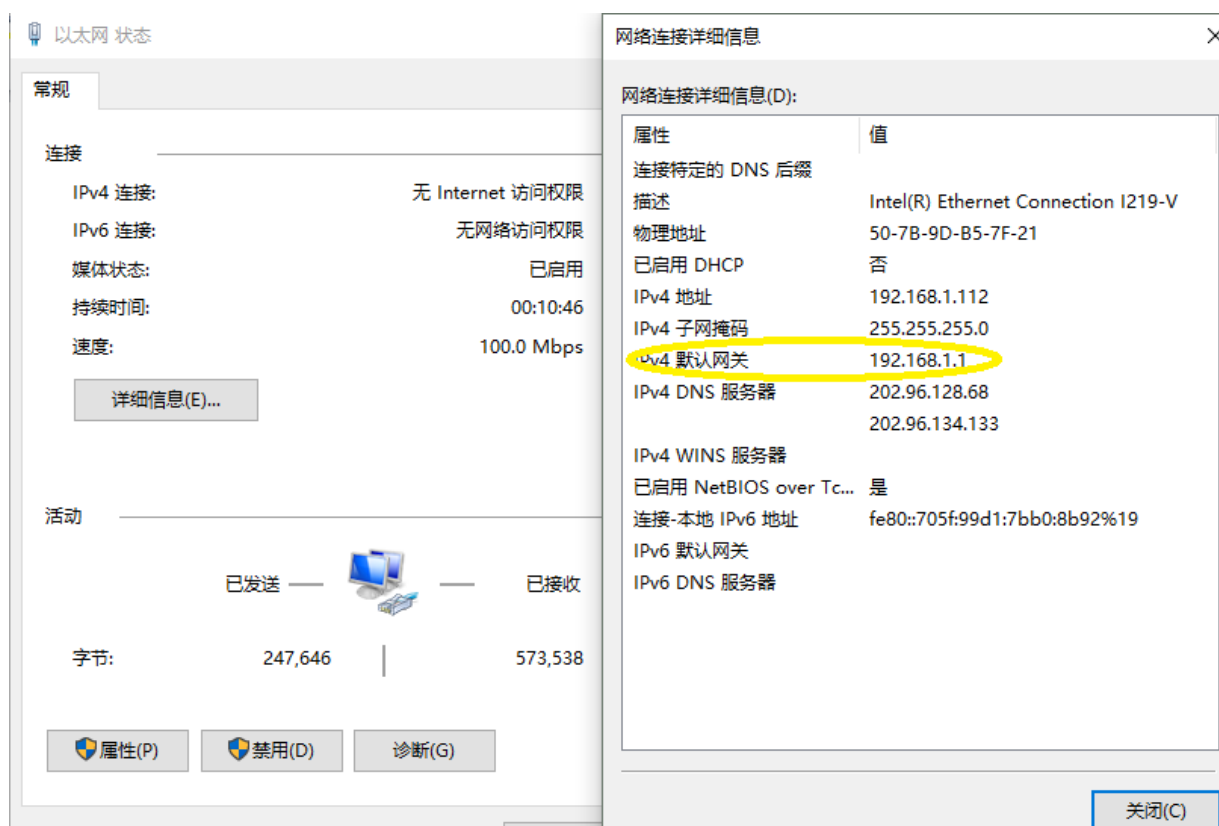
Step 3: Click "internet protocol(TCP/IP)"



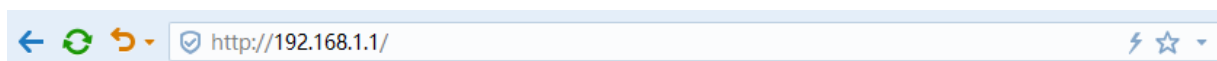
Step 4: Set IP address Manually



3) Check IP address according to the yellow tag in the pic.



4) Web browser address: "http://192.168.1.1"



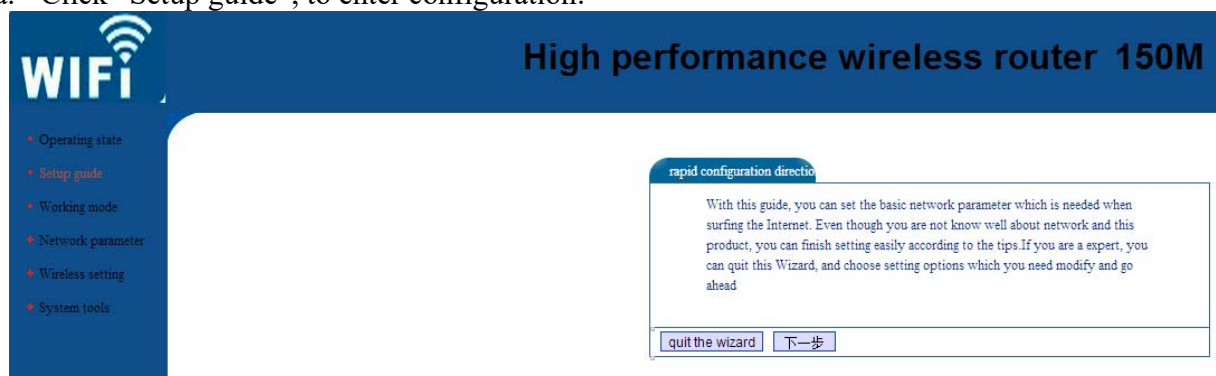
5) User account: admin
Password: password



A dialog box titled "需要进行身份验证" (Identity verification required) with a close button (X) in the top right corner. The text inside reads: "服务器 http://192.168.1.1:80 要求用户输入用户名和密码。" (The server http://192.168.1.1:80 requires the user to enter a username and password.) and "服务器提示：WR-LINK。" (Server prompt: WR-LINK.). Below the text are two input fields: "用户名：" (Username) with the value "admin" and "密码：" (Password) with masked characters "*****". At the bottom are two buttons: "登录" (Login) and "取消" (Cancel).

2. Setup "Setup Guide"

- a. Click "Setup guide", to enter configuration:



- b. Click "下一步", and then enter into LAN port setting:

The screenshot shows the 'LAN port setting' page. On the left is a navigation menu with 'WIFI' at the top and links for 'Operating state', 'Setup guide', 'Working mode', 'Network parameter', 'Wireless setting', and 'System tools'. The main content area has a blue header with 'High performance wireless router 150M'. The 'LAN port setting' form includes fields for IP address (192.168.1.1), subnet mask (255.255.255.0), default gateway (192.168.1.1), DHCP serve (radio buttons for 'forbidden' and 'start', with 'start' selected), DHCP lease time (72 小时), and IP address pool (192.168.1.2 to 192.168.1.254). At the bottom are 'last step' and 'next step' buttons.

c. Click “next step”, and then enter into wireless configuration:

The screenshot shows the 'wireless configuration' page. The navigation menu on the left is the same as the previous page. The main content area has a blue header with 'High performance wireless router 150M'. The 'wireless configuration' form includes fields for wireless status (start), service set identifier (SSID) (SKW71AP_7105A4), information channel (11), mode (802.11NGHT20), and service set identifier broadcast (radio buttons for '禁用' and '启用', with '启用' selected). At the bottom are 'last step' and 'next step' buttons.

d. Click “next step”, setup finished.

3. Setup “Working mode”

The screenshot shows the 'Network setting' page. The navigation menu on the left is the same as the previous pages. The main content area has a blue header with 'High performance wireless router 150M'. The 'Network setting' form has a sub-header 'Setting working pattern in this page' and three radio buttons: 'AP' (selected), 'Client', and 'Repeater'. At the bottom are 'Save' and 'Cancel' buttons.

- 1) AP mode
- 2) Repeater mode
- 3) Client mode

一. Setup “AP mode”

A. Click “Wireless setting”, enter into the “AP basic setting”:

High performance wireless router 150M

network setting

This page is for the basic network parameter of the gateway setting.

mode: ☐ 802.11BG ☐ 802.11NGHT20 ☒ 802.11NGHT40 ☐ Disable

SSID broadcast: ☐ Disable ☒ Enable

SSID:

frequency band:

Beacon: (25 ~ 500)

rate:

power:

B. Then enter into the “Security setting”:

High performance wireless router 150M

Wireless security setting

This page configure the wireless network security parameters.

Security options: ☐ Forbidden ☒ Start

Certification type:

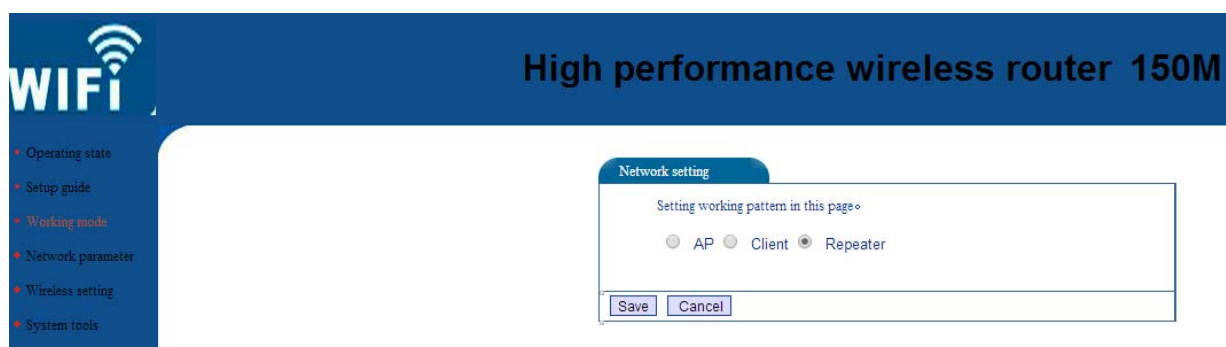
Cipher Type: ☐ TKIP ☒ CCMP ☐ AUTO

Pass Phrase:

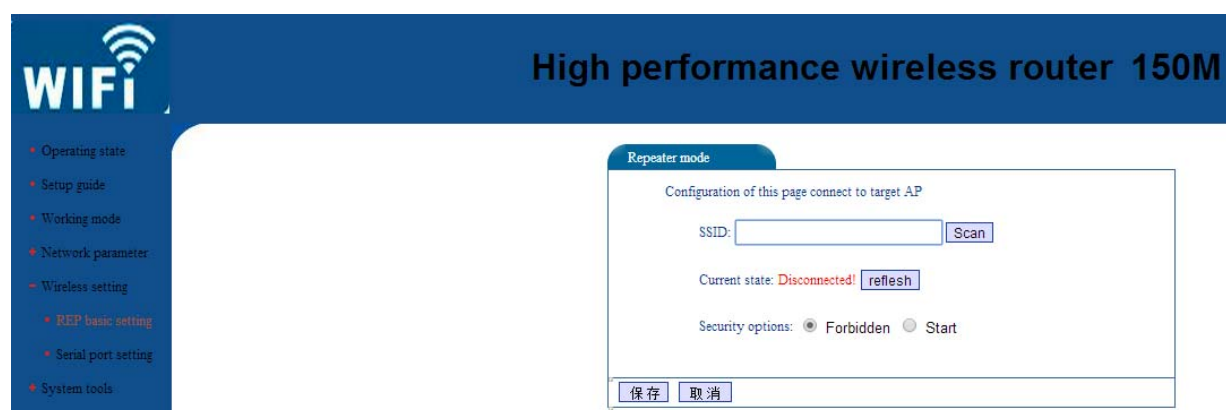
C. Click “Network parameter”, and then enter into LAN port setting:



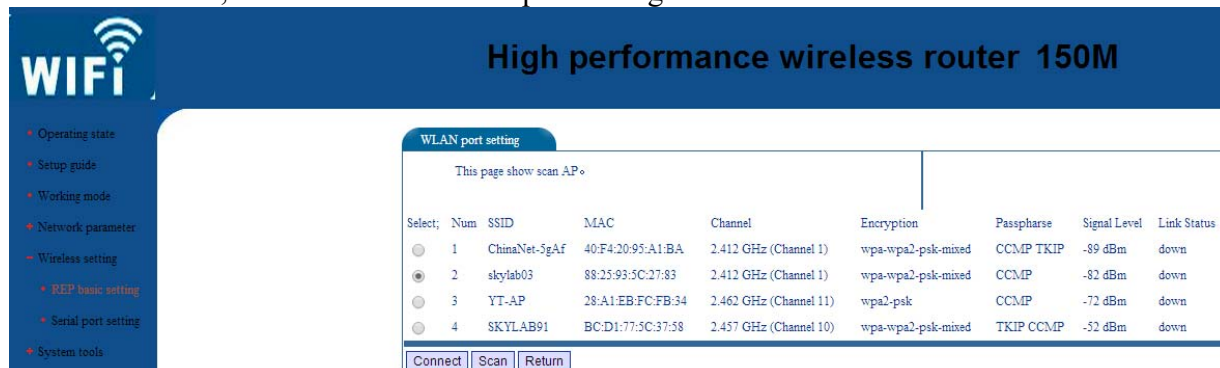
二. Setup “Repeater mode”



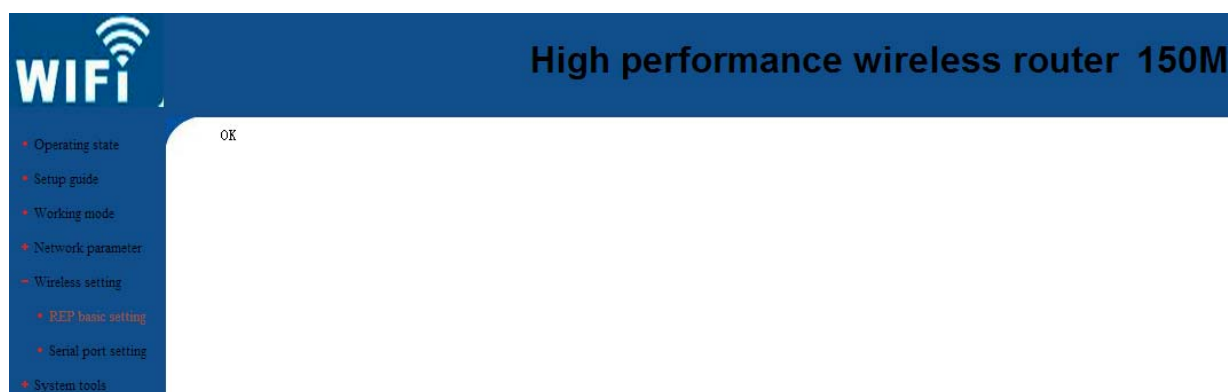
A. Click “Wireless setting”, enter into the “repeater mode”:



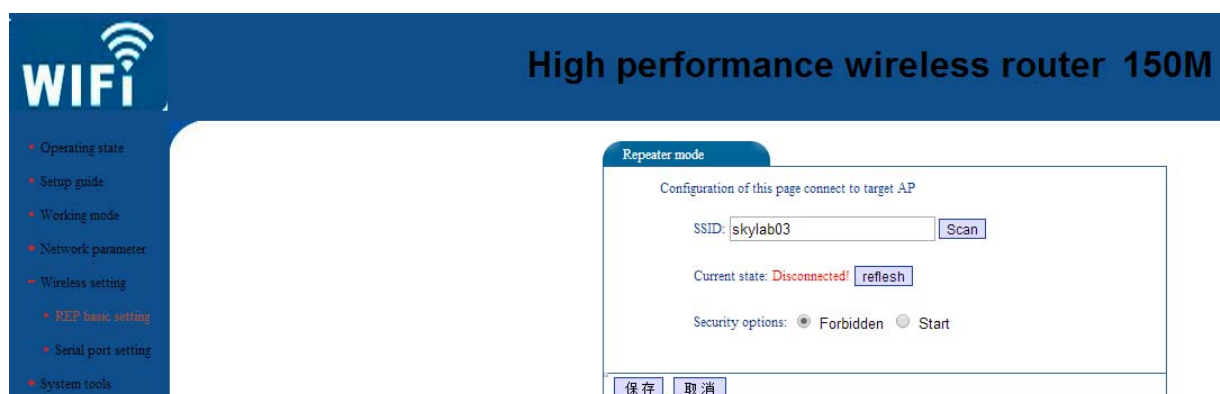
B. Click “Scan”, enter into the “WLAN port setting”:



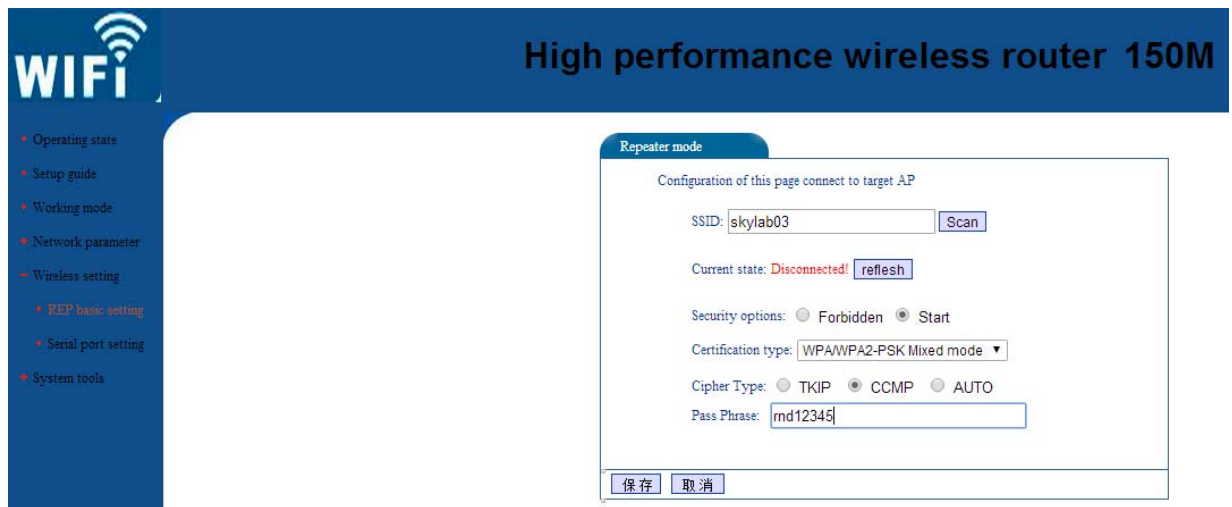
C. Select AP, Click “connect”:



D. Click “Wireless setting”, enter into “repeater mode”:



E. Select security options, click “Start”:



F.Input password:

WLAN port setting

This page show scan AP.

Select	Num	SSID	MAC	Channel	Encryption	Passphrase	Signal Level	Link Status
☐	1	ChinaNet-5gAf	40:F4:20:95:A1:BA	2.412 GHz (Channel 1)	wpa-wpa2-psk-mixed	CCMP TKIP	-89 dBm	down
☒	2	skylab03	88:25:93:5C:27:83	2.412 GHz (Channel 1)	wpa-wpa2-psk-mixed	CCMP	-82 dBm	down
☐	3	YT-AP	28:A1:EB:FC:FB:34	2.462 GHz (Channel 11)	wpa2-psk	CCMP	-72 dBm	down
☐	4	SKYLAB91	BC:D1:77:5C:37:58	2.457 GHz (Channel 10)	wpa-wpa2-psk-mixed	TKIP CCMP	-52 dBm	down

Buttons: Connect, Scan, Return

Repeater mode

Configuration of this page connect to target AP

SSID: skylab03 [Scan]

Current state: Disconnected! [refresh]

Security options: ☐ Forbidden ☒ Start

Certification type: WPA/WPA2-PSK Mixed mode ▼

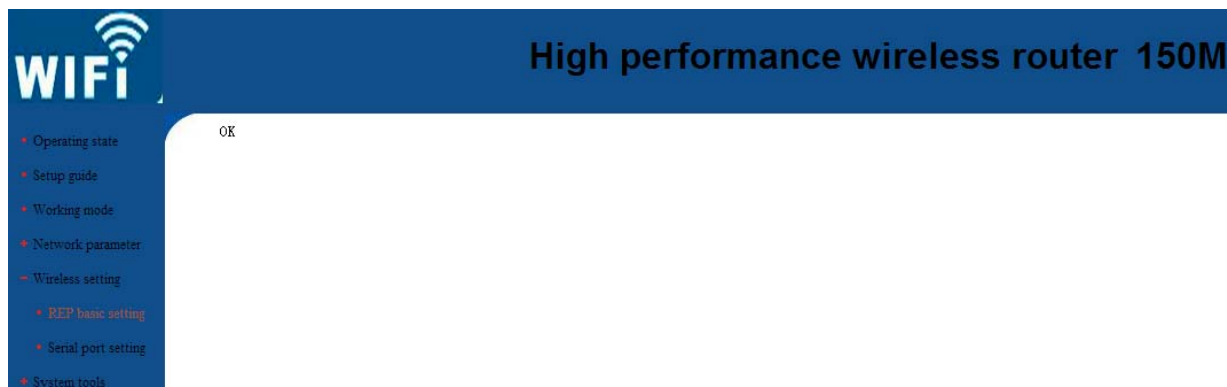
Cipher Type: ☐ TKIP ☒ CCMP ☐ AUTO

Pass Phrase: rmd12345

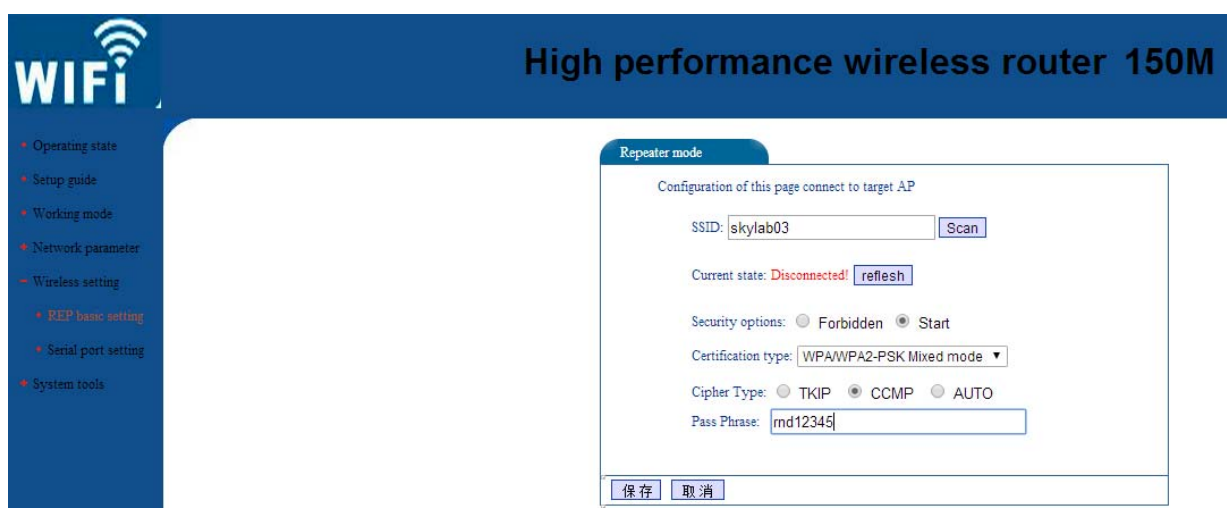
password

Buttons: 保存, 取消

G. Click “保存”:



H. Click “Wireless setting”, enter into “repeater mode”:



I. Click “refresh”, the current state: Connected!

WiFi

High performance wireless router 150M

- Operating state
- Setup guide
- Working mode
- Network parameter
- Wireless setting
 - REP basic setting
 - Serial port setting
- System tools

Repeater mode

Configuration of this page connect to target AP

SSID:

Current state: Connected!

Security options: ☐ Forbidden ☒ Start

Certification type:

Cipher Type: ☐ TKIP ☒ CCMP ☐ AUTO

Pass Phrase:

三. Setup “Client mode”

WiFi

High performance wireless router 150M

- Operating state
- Setup guide
- Working mode
- Network parameter
- Wireless setting
 - AP basic setting
 - STA basic setting
 - Security setting
 - Serial port setting
- System tools

network setting

This page is for the basic network parameter of the gateway setting.

mode: ☐ 802.11BG ☐ 802.11NGHT20 ☒ 802.11NGHT40 ☐ Disable

SSID broadcast: ☐ Disable ☒ Enable

SSID:

frequency band:

Beacon: (25 ~ 500)

rate:

power:

Note: reference setup “AP mode” and setup “repeater mode”.

四. Setup “System Tools”

