

SKW73 EVB User Manual

Introduction

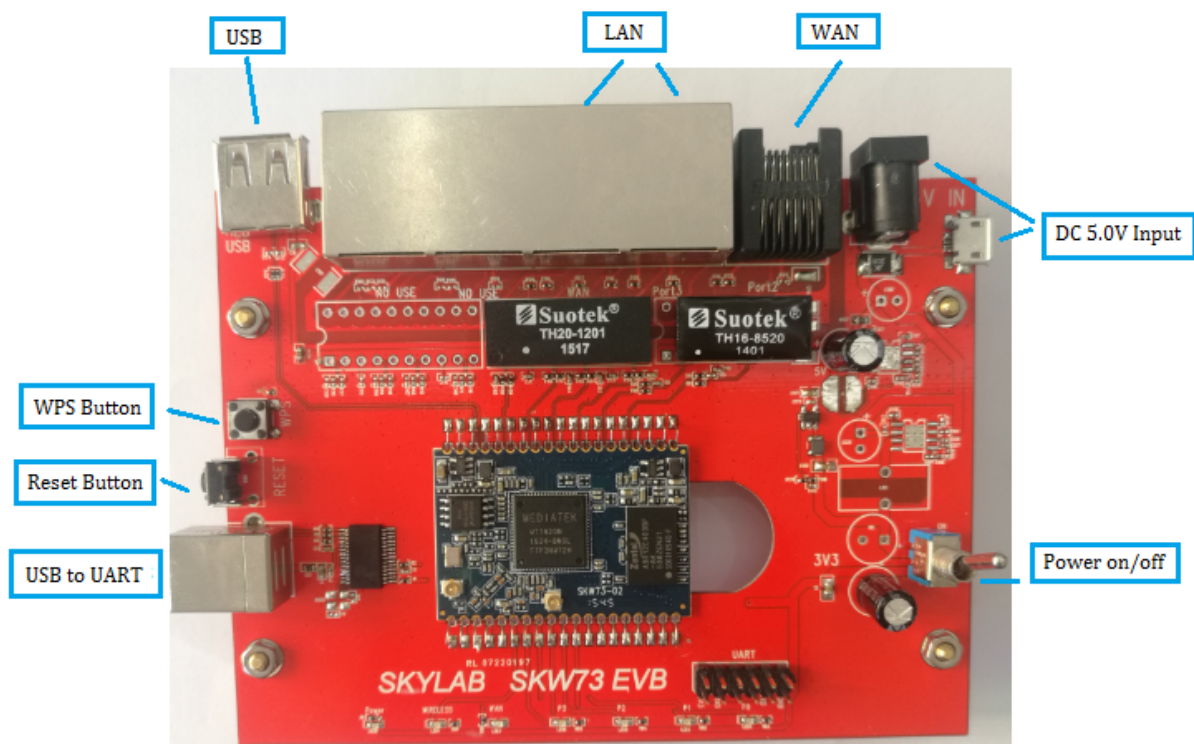
The SKW73 EVB offers a quick and easy way to evaluate the SKW73 module and the SKW73 is a 802.11n/ b/g WIFI router module.

The Evaluation Kit is including the following items:

1. One SKW73 module.
2. One SKW73 EVB.
3. One DC adaptor with micro USB connector cable.
4. Two WIFI antenna.
5. This Manual.

EVB Details

This section describes the various interfaces and switch settings for the SKW73-EVB board.



EVB Hardware Installation

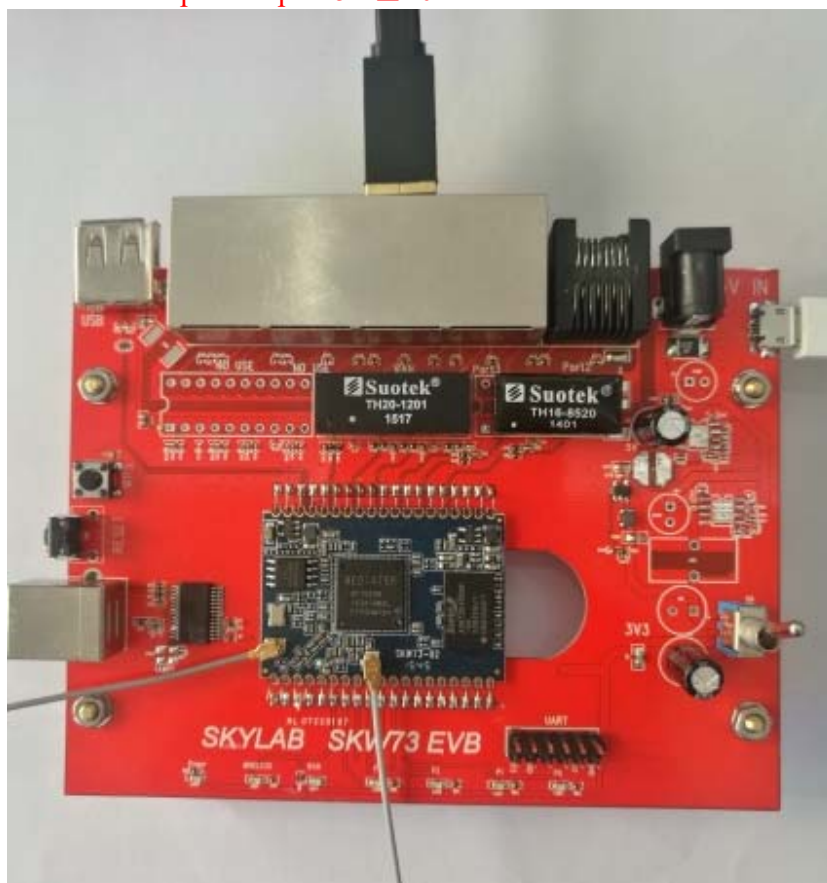
Step 1: Insert the module to the EVK board.

Step 2: Connect the another LAN port into PC's RJ45 port.

Step 3: Connect the WIFI antenna.

Step 4: Insert the DC adaptor into the power-supply connector.

Note: The DC adaptor output: $5V \pm 10\%$ /1A



1. Logging in to the Module Web

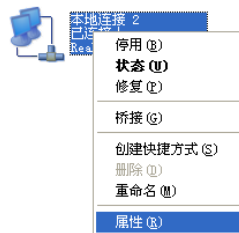
1) Connected SKW73 LAN port and PC's RJ45 port;

2) Setup IP address:

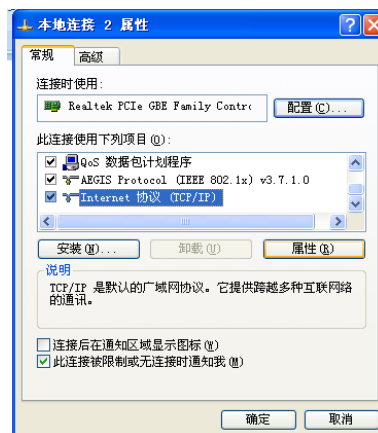
Step 1: Right-click the "local connection. This pic is chinese version.



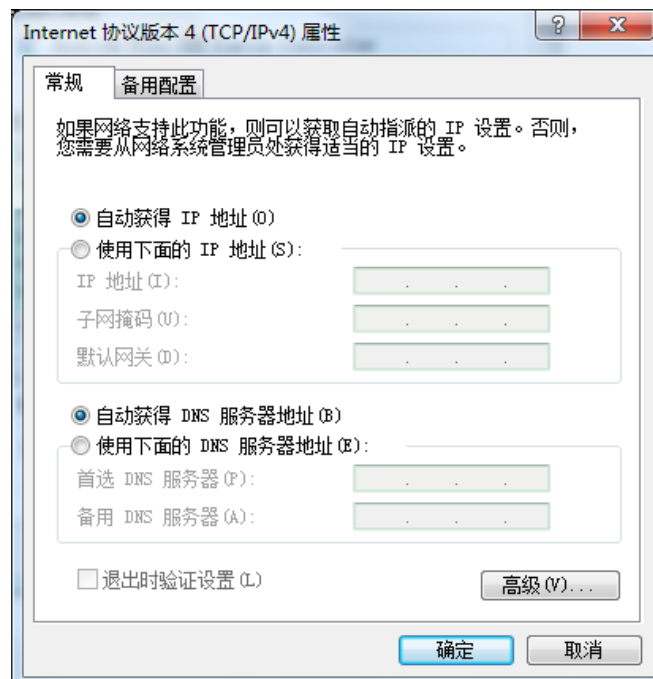
Step 2: Click "attribute"



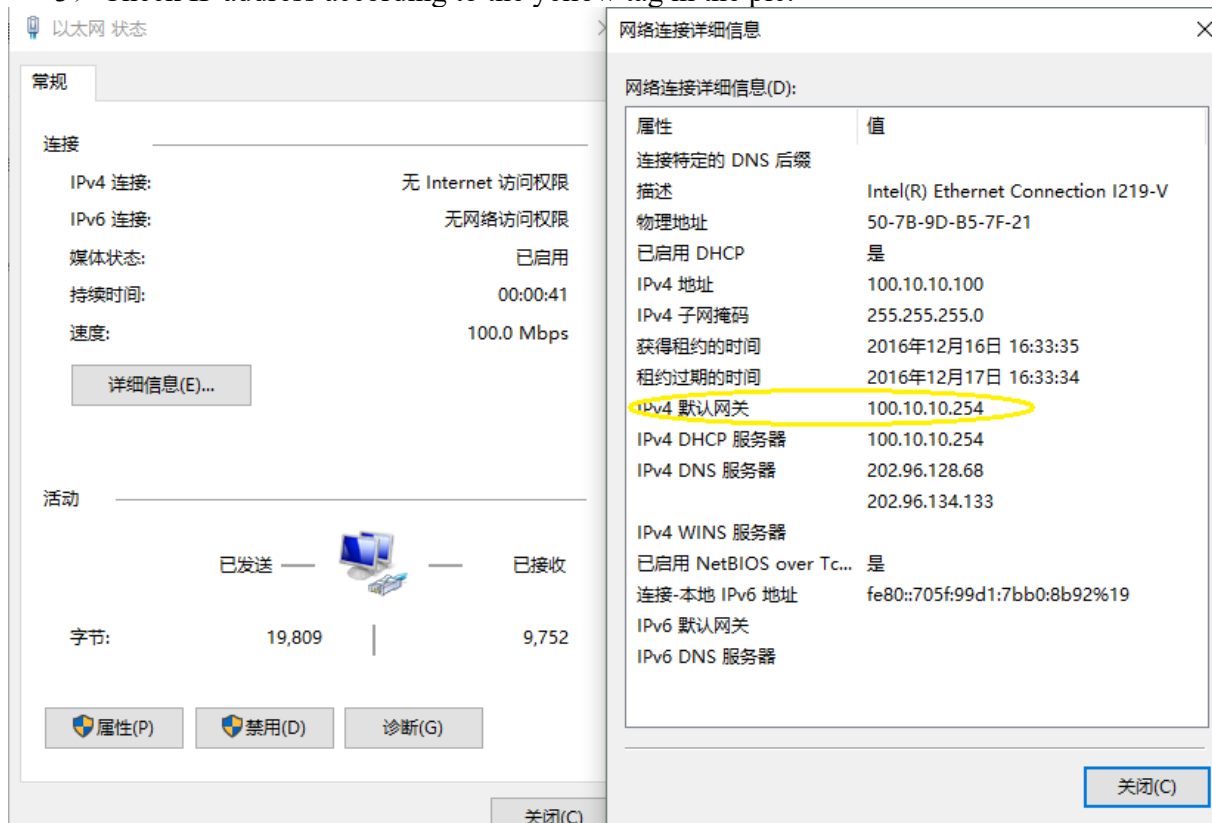
Step 3: Click “internet protocol(TCP/IP)”



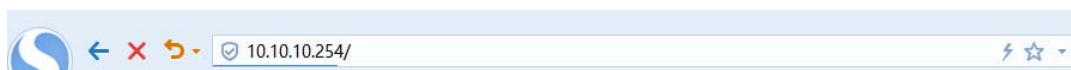
Step 4: IP address set as gain automatically;



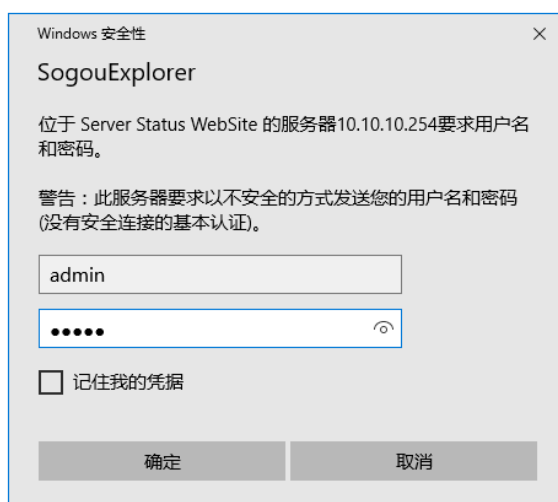
3) Check IP address according to the yellow tag in the pic.



4) Web browser address: "http: //10.10.10.254"

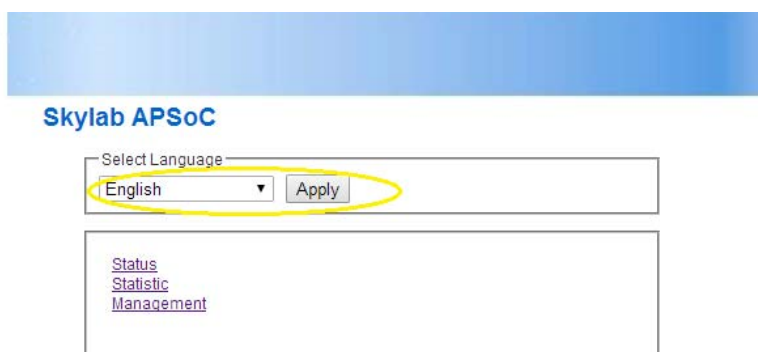


5) User account: admin
Password: admin



2. Setup “Setup Guide”

- a. Choose the language:



- b. Choose Operation Mode:

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Skylab

- Operation Mode
- Internet Settings
- Wireless Settings
- Firewall
- Administration

Operation Mode Configuration

You may configure the operation mode suitable for you environment.

☐ **Bridge:**
All ethernet and wireless interfaces are bridged into a single bridge interface.

☒ **Gateway:**
The first ethernet port is treated as WAN port. The other ethernet ports and the wireless interface are bridged together and are treated as LAN ports.

☐ **AP Client:**
The wireless apcli interface is treated as WAN port, and the wireless ap interface and the ethernet ports are LAN ports.

NAT Enabled:

TCP Timeout:

UDP Timeout:

Three Operation Mode:

- 1) Gateway
- 2) AP Client
- 3) Bridge

一. Setup “Gateway mode”

- A. Choose Gateway in the mode setting;
- B. Network setting as “WAN”;

SKYLAB

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Skylab

- Operation Mode
- Internet Settings
 - WAN
 - LAN
 - DHCP clients
 - VPN Passthrough
 - Advanced Routing
 - IPv6
- Wireless Settings
- Firewall
- Administration

Wide Area Network (WAN) Settings

You may choose different connection type suitable for your environment. Besides, you may also configure parameters according to the selected connection type.

WAN Connection Type:

DHCP Mode	MAC Clone
STATIC (fixed IP)	Disable
DHCP (Auto config)	Disable
PPPoE (ADSL)	Disable
L2TP	Disable
PPTP	Disable

- C. There are ADSL、L2TP、PPTP、3G these ways to connect to WAN in “WAN connected mode”, The following is 3G mode;

3G 模式	
APN	
PIN	
Dial Number	
Username	
Password	
USB 3G 调制解调器	AutoDetect v
MAC 复制	AutoDetect NU MU-Q101 HUAWEI E169 BandLuxe C270 OPTION ICON 225 DATANG M5731 MobilePeak-Titan ZTE-CEM630
Enabled	停用 v

- D. Wireless net setting

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- Skylab
 - Operation Mode
 - Internet Settings
 - WAN
 - LAN
 - DHCP clients
 - VPN Passthrough
 - Advanced Routing
 - IPv6
 - Wireless Settings
 - Basic
 - Advanced
 - Security
 - WPS
 - Station List
 - Statistics
 - Firewall
 - Administration

Wireless Network	
Driver Version	4.1.0.0
Radio On/Off	RADIO OFF
WiFi On/Off	WiFi OFF
Network Mode	11b/g/n mixed mode v
Network Name(SSID)	MT7628_AP v Hidden ☐ Isolated ☐
Broadcast Network Name (SSID)	☒ Enable ☐ Disable
AP Isolation	☐ Enable ☒ Disable
BSSID	28:A1:EB:FD:9B:2E
Frequency (Channel)	AutoSelect v
HT Physical Mode	
Operating Mode	☒ Mixed Mode ☐ Green Field
Channel BandWidth	☐ 20 ☒ 20/40
Guard Interval	☐ Long ☒ Auto
MCS	Auto v

二. Setup “AP Client mode”

Operation Mode Configuration

You may configure the operation mode suitable for you environment.

- ☐ **Bridge:**
All ethernet and wireless interfaces are bridged into a single bridge interface.
- ☐ **Gateway:**
The first ethernet port is treated as WAN port. The other ethernet ports and the wireless interface are bridged together and are treated as LAN ports.
- ☒ **AP Client:**
The wireless apcli interface is treated as WAN port, and the wireless ap interface and the ethernet ports are LAN ports.

NAT Enabled:

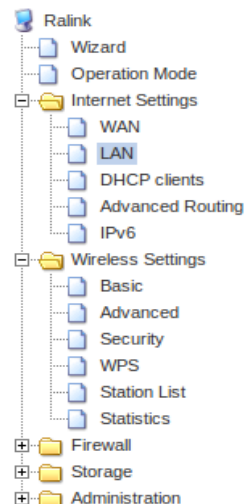
TCP Timeout:

UDP Timeout:

A. First setting IP of AP router and SKW73:

Outer default AP router IP address is 192.1681.1.1;
SKW73 use the own IP address, 192.168.2.254;

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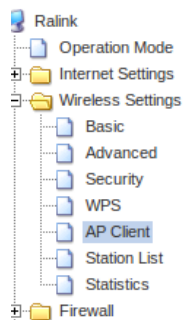
Local Area Network (LAN) Settings

You may enable/disable networking functions and configure their parameters as your wish.

LAN Setup	
Hostname	ralink
IP Address	192.168.2.254
Subnet Mask	255.255.255.0
LAN 2	☐ Enable ☒ Disable
LAN2 IP Address	
LAN2 Subnet Mask	
MAC Address	00:0C:43:30:50:58
DHCP Type	Server ▼
Start IP Address	192.168.2.100
End IP Address	192.168.2.200
Subnet Mask	255.255.255.0
Primary DNS Server	168.95.1.1
Secondary DNS Server	8.8.8.8
Default Gateway	192.168.2.254

B. Click “AP Client” —> “Scan” :

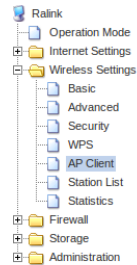
You could configure AP Client parameters here.



AP Client Parameters	
SSID	MT7621_AP
MAC Address (Optional)	a0:20:14:03:21:50
Security Mode	OPEN ▼
Encryption Type	None ▼
Apply Cancel SCAN	

C. Select AP, click “Apply” :

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AP Client Feature

You could configure AP Client parameters here.

AP Client Parameters							
SSID	MT7621_AP						
MAC Address (Optional)	a0:20:14:03:21:50						
Security Mode	OPEN						
Encryption Type	None						
Apply Cancel SCAN							

Site Survey							
Ch	SSID	BSSID	Security	Signal(%)	W-Moe	ExtCh	NT
1	ChinaNet-ze5b	68:1a:b2:4e:61:e1	WPA1PSKWPA2PSK/AES	29	11b/g/n	NONE	In
1	Adslid	14:da:e9:53:35:e8	WPA2PSK/AES	10	11b/g/n	NONE	In
1	888888	5c:63:bf:f7:b9:9a	WPA2PSK/TKIP	24	11b/g	NONE	In
1	ITV-A35r	38:e5:95:b4:be:5d	WPA1PSKWPA2PSK/TKIP/AES	5	11b/g/n	NONE	In
1	NORMAN	00:23:cd:7d:e3:86	WEP	10	11b/g	NONE	In
2	TP-LINK_720N	6c:e8:73:ec:0c:1e	WPA1PSKWPA2PSK/TKIP/AES	29	11b/g/n	ABOVE	In
6	MT7621_AP	a0:20:14:03:21:50	NONE	81	11b/g/n	ABOVE	In
6	Synnex-SZ2	d0:57:4c:28:df:58	WPA1PSKWPA2PSK/TKIP/AES	100	11b/g	NONE	In
9	HY-CG	40:16:9f:5c:92:60	WPA1PSKWPA2PSK/AES	50	11b/g/n	NONE	In
11	360WiFi-EC4E	00:70:36:05:ec:4e	WPA1PSKWPA2PSK/AES	34	11b/g/n	BELOW	In
11	0x4A4347E68DB7E7A880E699BAE883	04:5f:a7:07:01:c1	WPA1PSKWPA2PSK/AES	39	11b/g/n	BELOW	In

D. Modify the wireless channel, make it the same as the channel of the AP:

Wireless Settings	Basic	MBSSID AP Isolation	☐ Enable ☒ Disable
	Advanced	BSSID	00:0C:43:30:50:58
	Security	Frequency (Channel)	2437MHz (Channel 6)
	WPS	HT Physical Mode	
	AP Client	Operating Mode	☒ Mixed Mode ☐ Green Field
	Statistics	Channel BandWidth	☐ 20 ☒ 20/40

Note: AP Router and AP client set to the same channel.