



## Quick Installation Guide

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wireless router

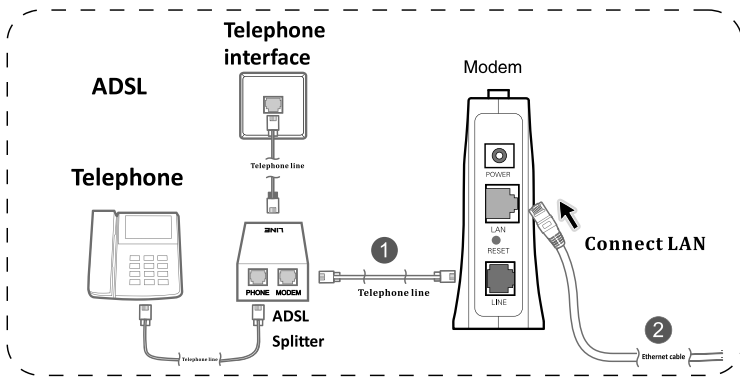


**Items included: Router /Quick installation guide**

# 1 Connect your router

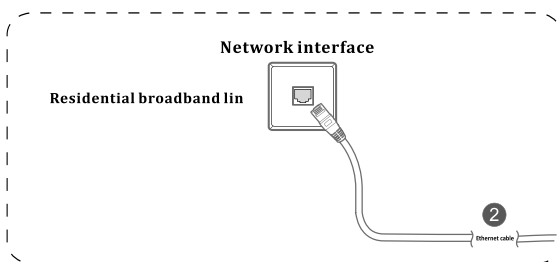
If you're using this device for the first time, please follow the steps below to cable your router.

After you cable the router, please check if the LEDs light.



LED indicator	Description	Status
	The power / internet light	The LED indicator will stay on steadily.
	LED indicator for WAN	The LED indicator will stay on steadily, or it will flash.
	LED indicator for LAN	The LED indicator will stay on steadily, or it will flash.

If the LED indicators don't light or flash properly, please check if the router is connected using cable.



**Caution**

1. Unplug and disconnect the device when days of thunder or rainy days in case of electrical shock hazard.
2. Keep away from heat, store in a place with good ventilation.
3. Prevent from getting wet during transportation or store in a cool, dry place.
4. Use adapter that is designed for the device only.
5. Place the device on a even surface.



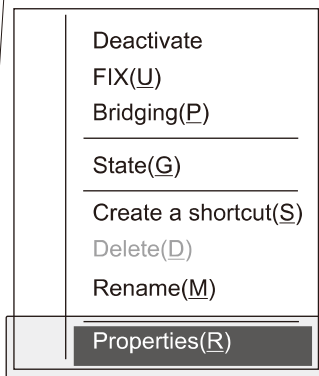
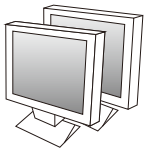
# 2 Set the computer network protocols

Windows Vista/7

Windows Vista/Windows 7/Vista system Please perform the following steps

1

Click Start - Control Panel --- Network and Internet - Network connection "- select" Local Area Connection " Right-click, select "Properties".



3

Double-click the "Obtain an IP address automatically" and "Obtain DNS server address automatically" Click OK to return to the previous interface and then click OK

Internet Protocol version 4 (CTC/IPV4) properties

General

If your network supports this function, you can get IP settings assigned automatically. Otherwise, you will need from network administrator for the appropriate IP settings.

☒ Obtain an IP address automatically (0)

☐ Use the following IP address (s)

IP address (I)

Subnet mask (u)

Default gateway (d)

☒ Obtain DNS server address automatically (B)

☐ Use the following DNS server addresses (E):

Preferred DNS server (P):

Alternate DNS server (A):

Advanced (V)

Determine Cancel

2

Double-click the "Internet Protocol Version 4 (TCP / Ipv4)

The Internet connection properties

Network Share

Connect using

Realtek RTL8101 Family PCI-E Fast Ethernet NIC

Configuration

This connection uses the following items (0):

☒ QOS Packet Scheduler

☒ File and print sharing for Microsoft networks

☒ Internet Protocol version 6 (CTC/IPV6)

☒ Link-layer topology discovery Mapper I/O driver

☒ Internet Protocol version 4 (CTC/IPV4)

☒ Link-layer topology discovery responder

Install Uninstall Properties

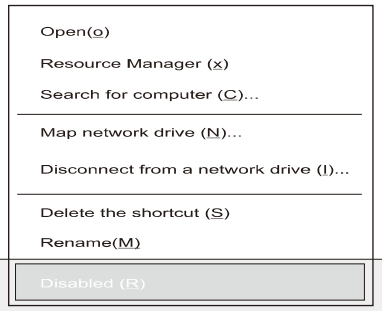
Description

Transmission Control Protocol/Internet Protocol. The wide area network protocol is the default protocol that provides different communication over interconnected networks.

Determine Cancel

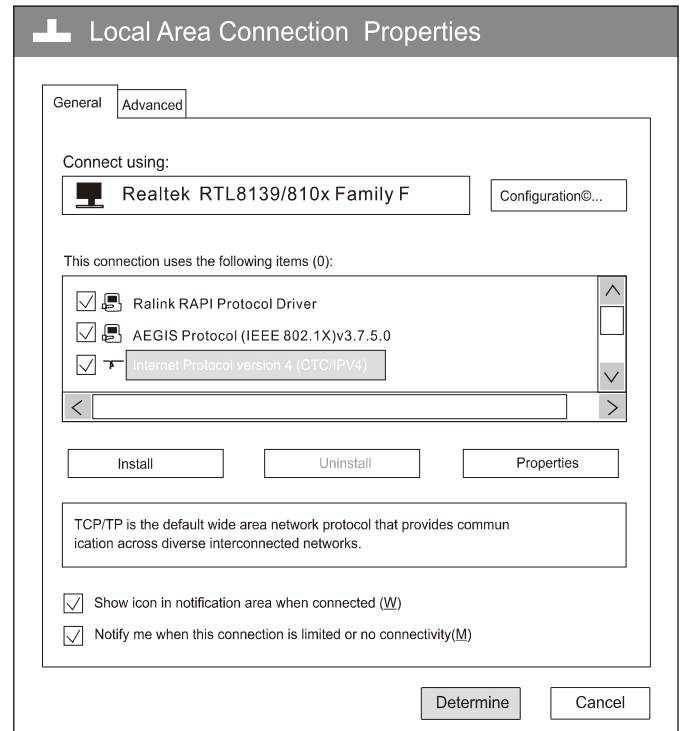
1

Select Local Area Connection, right-click and select "Properties".



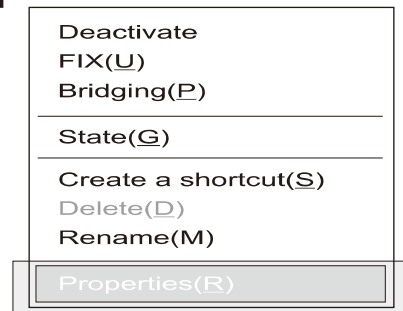
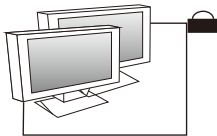
3

Double-click the "Internet Protocol Version (TCP / Ipv)



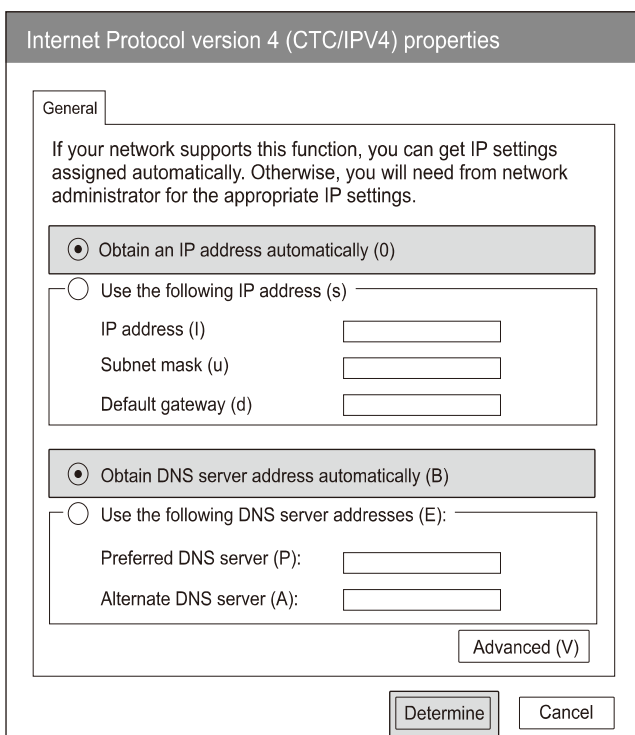
2

Select Local Area Connection, right-click and select "Properties".



4

Double-click the "Obtain an IP address automatically" and "Obtain DNS server address automatically" Click OK to return to the previous interface and then click OK



# 3 Router Configuration

- 1 Open a web browser, enter 192.168.1.1, then press "Enter", and enter username and password.(default: root)

MediaTek OpenWrt

## No password set!

There is no password set on this router. Please configure a root password to protect the web interface and enable SSH.  
Go to password configuration...

## Authorization Required

Please enter your username and password.

Username root

Password

Login

Reset

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## 2 Restore factory settings

MediaTek OpenWrt Status System Network Logout UNSAVED CHANGES

**No password set!**  
There is no password set on this router. Please configure a root password to protect the web interface and enable SSH.  
Go to password configuration...

**Flash operations**  
Actions Configuration

**Backup / Restore**  
Click "Generate archive" to download a tar archive of the current configuration files. To reset the firmware to its initial state, click "Perform reset" (only possible with squashfs images).  
Download backup: Generate archive  
Reset to defaults: Perform reset  
To restore configuration files, you can upload a previously generated backup archive here.  
Restore backup: 浏览... Upload archive...

**Flash new firmware image**  
Upload a sysupgrade-compatible image here to replace the running firmware. Check "Keep settings" to retain the current configuration (requires an OpenWrt compatible firmware image).  
Keep settings: ☒  
Image: 浏览... Flash image...

System  
Administration  
Software  
Startup  
Scheduled Tasks  
Mount Points  
LED Configuration  
Backup / Flash Firmware  
Reboot

Click on "Backup/Flash Firmware" to enter the next interface to restore the factory settings.

http://192.168.1.1/cgi-bin/luci/stok=fdb089132142c21c0d92914abefa04e2/admin/system/flashops 100%

MediaTek OpenWrt Status System Network Logout UNSAVED CHANGES

**No password set!**  
There is no password set on this router. Please configure a root password to protect the web interface and enable SSH.  
Go to password configuration...

### Flash operations

Actions Configuration

**Backup / Restore**  
Click "Generate archive" to download a tar archive of the current configuration files. To reset the firmware to its initial state, click "Perform reset" (only possible with squashfs images).

Download backup:

Reset to defaults:

To restore configuration files, you can upload a previously generated backup archive here.

Restore backup:

### Flash new firmware image

Upload a sysupgrade-compatible image here to replace the running firmware. Check "Keep settings" to retain the current configuration (requires an OpenWrt compatible firmware image).

Keep settings: ☒

Image:

Click on "Perform reset" and revert to the factory settings.  
After birth, the router's LAN address is 192.168.1.1.  
Username: root password: roo.

## 3 Modify the LAN address

MediaTek OpenWrt Status System Network Logout UNSAVED CHANGES AUTO REFRESH ON

**No password set!**  
There is no password set on this router. Please configure a root password to protect the web interface and enable SSH.  
Go to password configuration...

### Wireless Overview

Generic WEXT 802.11 (mt7603e)  
Channel: 1 (? GHz) | Bitrate: 300 Mbit/s

SSID: mt7603e-80C8 | Mode: Client  
0% BSSID: 00:0C:43:26:60:40 | Encryption: -

### Associated Stations

SSID	MAC-Address	IPv4-Address	Signal	Noise	RX Rate	TX Rate
No information available						

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Network, Interfaces, click "Interfaces", enter LAN, WAN settings

MediaTek OpenWrt Status System Network Logout UNSAVED CHANGES! AUTO REFRESH ON

No password set!  
There is no password set on this router. Please configure a root password to protect the web interface and enable SSH.  
Go to password configuration...

**Interfaces**

Network → Interfaces → LAN, modification. Entering the LAN modification interface.

Interface Overview

Network	Status	Actions
<b>LAN</b> br-lan	Uptime: 0h 8m 21s MAC-Address: 00:0C:43:28:80:C8 RX: 603.72 KB (4650 Pkts.) TX: 2.02 MB (4070 Pkts.) IPv4: 192.168.1.1/24 IPv6: FD6D:65E1:6BAF:0:0:0:0:1/60	Connect Stop <b>Edit</b> Delete
<b>WAN</b> pppoe-wan	RX: 0.00 B (0 Pkts.) TX: 0.00 B (0 Pkts.)	Connect Stop Edit Delete
<b>WAN6</b> @wan	MAC-Address: 00:00:00:00:00:00 RX: 0.00 B (0 Pkts.) TX: 0.00 B (0 Pkts.)	Connect Stop Edit Delete

Add new interface...

Global network options

IPv6 ULA-Prefix fd6d:65e1:6baf::/48

## 4 Modify the LAN address

MediaTek OpenWrt Status System Network Logout AUTO REFRESH ON

**Interfaces - LAN**

On this page you can configure the network interfaces. You can bridge several interfaces by ticking the "bridge interfaces" field and enter the names of several network interfaces separated by spaces. You can also use VLAN notation INTERFACE.VLANID (e.g.: eth0.1).

Common Configuration

General Setup Advanced Settings Physical Settings Firewall Settings

Status br-lan Uptime: 1h 43m 37s  
MAC-Address: 00:0C:43:28:80:C8  
RX: 1.73 MB (21039 Pkts.)  
TX: 17.42 MB (24565 Pkts.)  
IPv4: 192.168.1.1/24  
IPv6: FD6D:65E1:6BAF:0:0:0:0:1/60

Protocol Static address

IPv4 address 192.168.1.1

IPv4 netmask 255.255.255.0

IPv4 gateway

IPv4 broadcast

Use custom DNS servers

IPv6 assignment length 60  
Assign a part of given length of every public IPv6-prefix to this interface

Modify the router's address here: 192.168.1.1, 192.168.10.1, 192.168.118.1 and so on. Remember: unlike other Internet routers, it will cause IP conflict and no internet access.

The bottom right corner has the button "Save&Apply", after pressing, restart the router, plug the network line (after wireless disconnection, reconnect), the computer will automatically get the wired network and wireless network IP.

## DHCP Server

General Setup

Advanced Settings

IPv6 Settings

Ignore interface

☐ ☒ Disable DHCP for this interface.

Start

Lowest leased address as offset from the network address.

Limit

Maximum number of leased addresses.

Leasetime

Expiry time of leased addresses, minimum is 2 minutes ( 2m ).

Save & Apply

Save

Reset

Any setting must press "save & should", will take effect.

## 5 Wan port settings (LAN Internet settings)

MediaTek OpenWrt

Status ▾ System ▾ Network ▾ Logout

AUTO REFRESH ON

No password set!

There is no password set on this router. Please configure a root password to protect the web interface and enable SSH.  
Go to password configuration...

Interfaces - WAN

On this page you can configure the network interfaces. You can bridge several interfaces by ticking the "bridge interfaces" field and enter the names of several network interfaces separated by spaces. You can also use VLAN notation INTERFACE.VLANNR (e.g.: eth0.1).

Common Configuration

General Setup

Advanced Settings

Physical Settings

Firewall Settings

Status

eth0.2

Uptime: 1h 15m 45s

MAC-Address: 00:0C:43:28:80:C8

RX: 2.98 MB (3172 Pkts.)

TX: 6.59 MB (23506 Pkts.)

IPv4: 192.168.55.153/24

Protocol

DHCP client

Hostname to send when requesting DHCP

Save & Apply

Save

Reset

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http://192.168.1.1/cgi-bin/luci/stok=7dc461827e2ed17a51cdf183cea6f7d1/admin/network/network/wan?tab.network.wan=firewall

100%

After recovering the WAN protocol after the factory setup, the default is the DHCP client, which is automatically getting the IP address assigned by the higher level router. It is suitable to connect to the Internet after the company has been able to access the Internet (the cable is connected to the Wan port of the openwrt router).

This figure has got 192.168.55.153.



# 6 Wan port equipment (set up the Internet)

MediaTek OpenWrt

StatusSystemNetworkLogout

UNSAVED CHANGES 4AUTO REFRESH ON

Go to password configuration...

Interfaces - WAN

On this page you can configure the network interfaces. You can bridge several interfaces by ticking the "bridge interfaces" field and enter the names of several network interfaces separated by spaces. You can also use VLAN notation INTERFACE.VLANNR (e.g.: eth0.1).

Common Configuration

General SetupAdvanced SettingsPhysical SettingsFirewall Settings

Status

pppoe-wan

RX: 0.00 B (0 Pkts.)  
TX: 0.00 B (0 Pkts.)

Protocol PPPoE

PAP/CHAP username root

PAP/CHAP password root

Access Concentrator

Leave empty to autodetect

Service Name

Leave empty to autodetect

Save & ApplySaveReset

Open the "Protocol" drop-down menu and select "PPPoE" to click "switch".

PPPoE protocol: it is suitable to use an account number and password to join the Internet, such as the user name, password (the right green rotating arrow can hide or display the password) after a cat.

Confirm it, and click "Save&amp;Apply".

# 7 Wireless setup

MediaTek OpenWrt

StatusSystemNetworkLogout

AUTO REFRESH ON

No password set!

There is no password set on this router. Please configure a root password to protect the web interface and enable SSH.  
Go to password configuration...

Wireless Overview

Network > Wifi to Edit enters the next facet for wireless password setting.

Generic WEXT 802.11 (mt7603e)  
Channel: 1 (? GHz) | Bitrate: 300 Mbit/s

SSID: mt7603e-80C8 | Mode: Client

0% BSSID: 00:0C:43:26:60:40 | Encryption: -

DisableEdit

Associated Stations

SSID	MAC-Address	IPv4-Address	Signal	Noise	RX Rate	TX Rate
No information available						

Powered by LuCI Trunk (git-755d6f1) OpenWrt Barrier Breaker unknown

# 8 Modify the WIFI password

MediaTek OpenWrt

StatusSystemNetworkLogout

AUTO REFRESH ON

No password set!  
There is no password set on this router. Please configure a root password to protect the web interface and enable SSH.  
Go to password configuration...

### Wireless Network: Client "mt7603e-80C8" (ra0)

The *Device Configuration* section covers physical settings of the radio hardware such as channel, transmit power or antenna selection which are shared among all defined wireless networks (if the radio hardware is multi-SSID capable). Per network settings like encryption or operation mode are grouped in the *Interface Configuration*.

#### Device Configuration

General SetupAdvanced SettingsHT Physical Mode

Status

Mode: Client | SSID: mt7603e-80C8  
0% BSSID: 00:0C:43:26:60:40 | Encryption: -  
Channel: 1 (0.000 GHz) | Tx-Power: 0 dBm  
Signal: 0 dBm | Noise: 0 dBm  
Bitrate: 300.0 Mbit/s | Country: 00

Radio on/off

on

Network Mode

802.11b/g/n

Channel

2412MHz (Channel 1)

Band Width

40MHz

## Interface Configuration

General Setup

Wireless Security

1

Encryption

WPA2-PSK

2 Select the way of adding

WPA-Encryption requires wpa\_supplicant (for client mode) or hostapd (for AP and ad-hoc mode) to be installed.

Cipher

Force CCMP (AES)

Key Renewal Interval(seconds)

Key

12345678

3 Fill in your WiFi password

Click on the green arrow on the right side of the box to hide or display characters.

4 Remember to click "Save&Apply".



Save & Apply

Save

Reset

# 9 Modify the WiFi name

MediaTek OpenWrt

StatusSystemNetworkLogout

AUTO REFRESH ON

No password set!

There is no password set on this router. Please configure a root password to protect the web interface and enable SSH.  
Go to password configuration...

Wireless Network: Client "mt7603e-80C8" (ra0)

The Device Configuration section covers physical settings of the radio hardware such as channel, transmit power or antenna selection which are shared among all defined wireless networks (if the radio hardware is multi-SSID capable). Per network settings like encryption or operation mode are grouped in the Interface Configuration.

Device Configuration

General Setup

Advanced Settings

HT Physical Mode

Status

Mode: Client | SSID: mt7603e-80C8  
0% BSSID: 00:0C:43:26:60:40 | Encryption: -  
Channel: 1 (0.000 GHz) | Tx-Power: 0 dBm  
Signal: 0 dBm | Noise: 0 dBm  
Bitrate: 300.0 Mbit/s | Country: 00

Radio on/off

on

Network Mode

802.11b/g/n

Channel

2412MHz (Channel 1)

Band Width

40MHz

Interface Configuration

General Setup

Wireless Security

ESSID

mt7603e-80C8

SSID: can be customized to change its name to WiFi.

Mode

Access Point

Network

☒ lan:

☐ wan:

☐ wan6:

☐ create:

Choose the network(s) you want to attach to this wireless interface or fill out the create field to define a new network.

WMM Mode

Enable

APSDCapable

Disable

Save & Apply

Save

Reset

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11


# Wireless subscriber connection settings

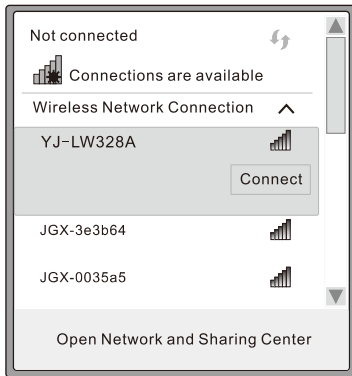
If you need to use the wireless network, you have to make sure the computer is equipped with a wireless network card, unplug the cable between computer and the router, and then operate according to the following steps

## Windows Vista/7

Windows Vista/Windows 7/Vista system Please perform the following steps

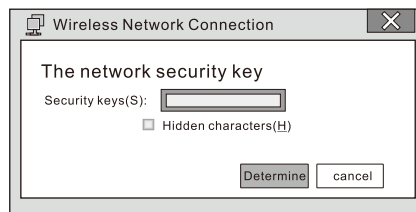
1

Right-click on the bottom right corner of the desktop icon , select "connect to the network" in the menu.



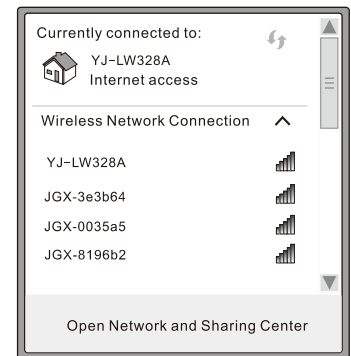
2

And then find the wireless network name which setup in step 4 of the wireless router configuration in the pop-up connect to internet interface, click "Connect" button.



3

Please follow the clues to enter the PSK password which setup in step 4 of the wireless router configuration, and click "OK" When it shows connected, said the computer join the network successfully.

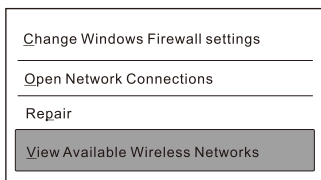


## Windows 2000/XP

Windows 2000/Windows XP Vista system: Please perform the following steps

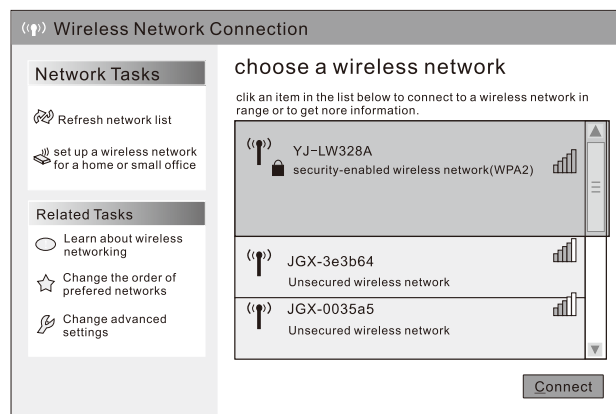
1

Right-click on icon of the bottom right corner of the desktop icon , select the wireless network you want to connect, click "Connect".



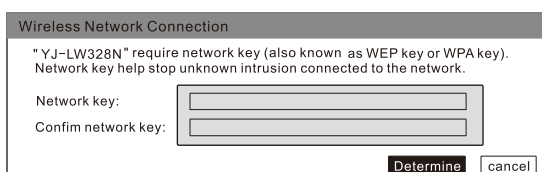
2

Input the PSK password (English characters case sensitive) which setup in step 4 of the wireless router configuration in the following space, click "OK".



3

When it shows connected, said the computer join the network successfully.



## **FCC STATEMENT :**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

**Warning:** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/TV technician for help.

## **FCC Radiation Exposure Statement:**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.