

3G Router Z-WE826



■ Remark:

1. Product Overview

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1. Product Overview

■ 1.1 Simply Description

WE826 provide an easy way to expend your wired Ethernet to wireless. It work well on gateway, and you could configure it via Web. It could meet both enterprise and the home's requirements economically, its user could browser the internet and time and anywhere. It has multi-function ,highly-perfomance and easy install. Will be your best choice to build your own WLAN. About the wireless security, WE826 provide multi-protection, support unable SSID broadcast , also provide 64/128/152 bit WEP encryption , support for WPA / WPA-PSK, WPA2/WPA2-PSK security mechanism , in order to protect your data .Comply with IEEE802.11ac/ 802.11a/ 802.11n/ 802.11g/ 802.11b/ 802.113/802.113u standard has 300Mbps , after add the 5G mode, the max 5G wireless rate could be 867Mbps. Our smart antenna management, makes the WE826 performs much better than other similar product in WiFi transmission distance, perfectly compitable with other network device.

■ 1.2 Features and Specification □

1.2.1 Main Features

- Provide 5 10M/100M Ethernet port
- DHCP server
- Support RTS/CTS protocol, ensure the communication quality
- > Roaming technology, efficient wireless connect
- DHCP serve static IP address
- Web manage

♦ 1.2.2 Specification

Comply with IEEE802.11ac/802.11a/802.11n/802.11g/802.11b/802.113/802.113u

standard

- > Support TCP/IP、DHCP、ICMP protocol
- > Auto MDI/MDIX port
- Indictor LED, power adapter(12V 1A)
- ➤ Work temperature 0□-40□
- > Operating Humidity: 10%~90% non-condensing

2. Hardware Description

■ 2.1 Panel Layout

◆ 2.1.1 Front Panel

Pic 2-1 Front Panel

Indictor LED (Will adjust with the specific mode)

Indictor LED	Description	Function
POWER	Power LED	Keep ON - Power in Keep Off - No Power
Mode or USB	Mode or USB LED	Flashing - Mode or USB work Keep Off - Mode or USB not work
LAN	LAN LED	On - The relevant port connect Off - No connect to the relevant port Flashing- Data transmission on the relevant port
WLAN	Wifi LED	Off - Wireless function unable On - Wireless function enable

Interface((Will adjust with the specific mode)

Interface	Description	Function
USB	USB2.0 Port	External USB device or USB net card
Micro SD(TF)	Micro SD(TF) slot	External Micro SD card slot, data exchange

◆ 2.1.2 Back Panel

Pic 2-2 Back Panel Port(Will adjust with the specific mode)

Port	Description	Function
DC	Power Port	Connect the supplied power adapter.
LAN	LAN Port (RJ45)	Connect to the devices in the LAN, such as HUB, switches or PC
WAN	WAN Port (RJ45)	Connect to the WAN device, data exchange with the internet

Button(Will adjust with the specific mode)

Button	Description	Function
REST/WPS	REST/WPS Multi-function button	Rest: Press for 8 seconds WPS: Press one times.
Antenna	2* 5Dbi omni antenna	Wireless data transfer and receive

■ 2.2 Rest

If you want to rest to the factory default settings, please refer the below steps

- 1) To plug the power adapter.
- 2) When the router works normally, press the REST/WPS button for 8 seconds.
- 3) All the router's LEDs will off and then on again, wait until it work normally.
- 4) When above 3 steps done, the router will rest to the factory default setting.

Warming:

Before steps finishing, don't cut the power off, or it will break your router.

■ 2.3 System Requirements.

- > Network card and Ethernet cable
- > TCP/TP net software (Windows 95 or higher version has pre-install)
- ➤ IE 5.0 or higher version

■ 2.4 Install Condition

When you install the router, please refer the below

- > Put the device horizontally
- > Keep away from any heat device
- Do not put it in some place which is too dirty or too humidity.

Remark:

The environment will effect the transfer distance , recommend using environment: Temperature: $0 \square \sim 40 \square$,Humidity: $10\% \sim 95\%$ RH

3. TCP/IP Configuration

Before using the device, you need to configure the network correctly, this manual is based on the Windows 2000/XP, the IP of the device is 192.168.1.1, subnet mask is 255.255.255.0.

Firstly, connect your PC to the LAN port, and then you can configure the IP of your PC in 2 ways.

♦ Set the IP

Set your PC's IP as 192.168.1.xxx(xxx could be any number in 2~254), subnet mask to be 255.255.255.0, default gateway 192.168.1.1, DNS server 192.168.1.1

♦ Auto set the IP by the DHCP server.

Set the TCP/IP to "automatically get IP address", after setting , you could use the Ping command to check if the device has connected to the PC. For an example, in Windows 2000, run the cmd.exe , and the enter ping 192.168.1.1 If the screen shows as the below, means OK, the device connected to the PC.

```
Pinging 192.168.1.1 with 32 bytes of data:

Reply from 192.168.1.1: bytes=32 time<10ms TTL=64
Ping statistics for 192.168.1.1:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

If it shows as below, it means fail

```
Pinging 192.168.1.1 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.

Ping statistics for 192.168.1.1:

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
Approximate round trip times in milli-seconds:

Minimum = Oms, Maximum = Oms, Average = Oms
```

When it fails to connect, you could check as below.

1): If the hardware connect in right way?

>>The relevant LED to the PC must be on

2): If your PC's TCP/IP sets right?

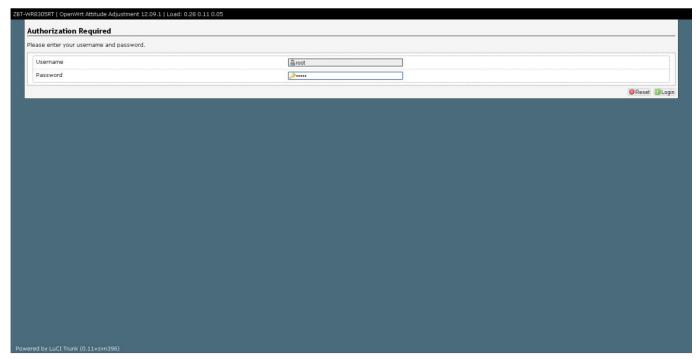
>>If the IP of the device is 192.168.1.1 , your PC's IP must be 192.168.1.xxx(xxx should be $2\sim253$)

4. Configuration Guide

■ 4.1 Start and Login

The router provide the UI based on the IE, this solution could work in any MS Windows, Macintosh or UNIX system . Run the browser, unable the VPN (if the VPN is working) , and then input the 192.168.1.1 in browser. After doing that, you will see the login page, you should enter it as the administer, which means you should enter the username: root /Password: admin , and then click the "log in"

The system of the WE826 is OpenWrt



4-1 Log in webpage

When everything goes well, the browser will show as the 4-2. There are several tag, click some tag, you could configure relevant function settings.

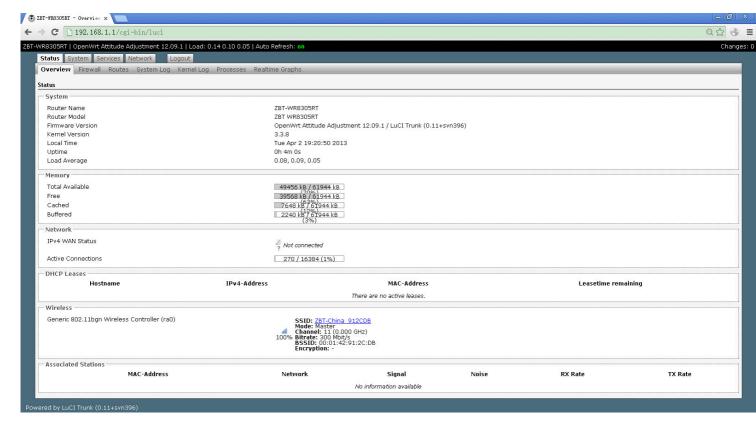


4-2

■ 4.2 UI

◆ 4.2.1 Overview

Click the "Overview" You could check the running information, included system information, Memory, network, DHCP leases, wireless and associate stations, as 4.2.1

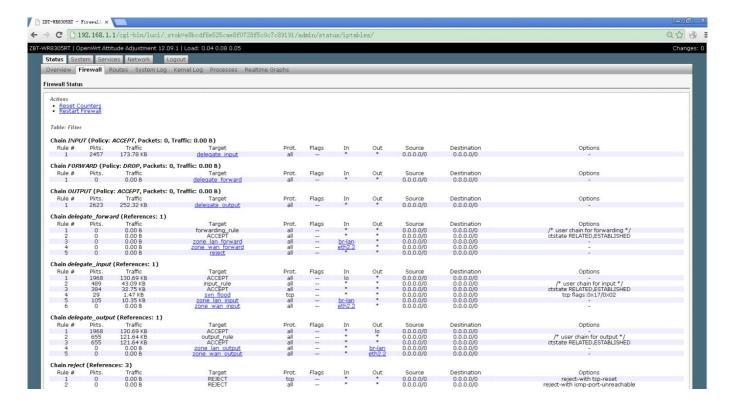


4.2.1 Status

- System: Router name, Router model, Firmware version, Kernel version, Local Time, Uptime, Load average.
- > Memory: Total available, Free, Caches, Buffered
- Network: The connection status of the WAN port.
- > DHCP Leases: Show the IP address, MAC, and the Lease time
- Wireless: It is about the wireless status, will included SSID, Mode, Work Channel, Bitrates, the MAC of the wireless interface, the Encryption of the transmission.
- Associate: Shows the status of all the device connect to the router via Wireless

♦ 4.2.2 Firewall

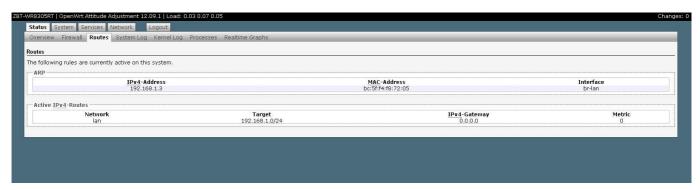
Click the firewall tag, you could check the firewall status of the device



4.2.2

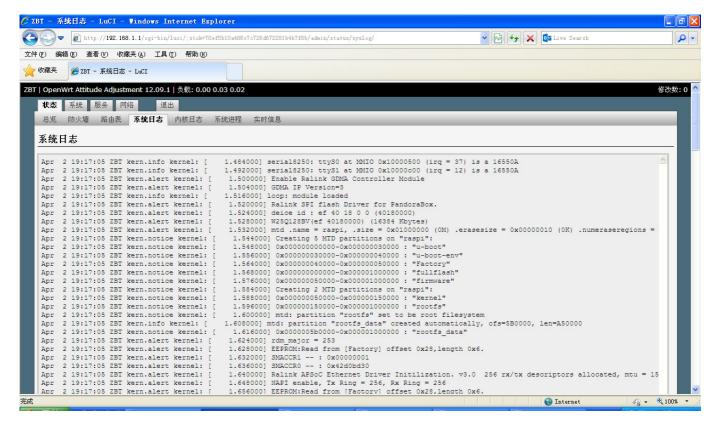
◆ 4.2.3 Routing List

Click the status-routes, you could check the routing list of the device, the currently active on the device.



4.2.4 System Log

Click the System Log, you could check the running status and the operate history



4.2.4

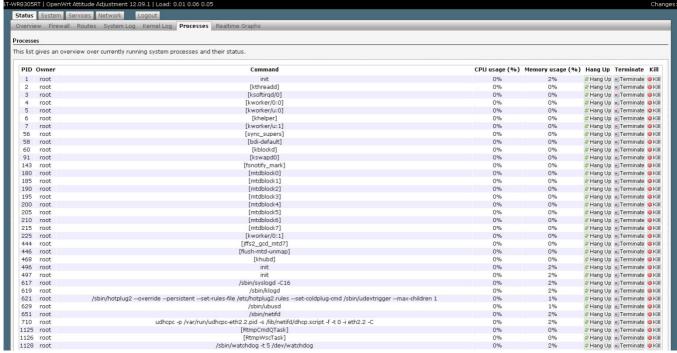
♦ 4.2.5 Kernel Log

Click the Kernel Log, you could check some information about the device's system



4.2.6 Processes

Click the progresses, you could check an overview over currently running system processes and their status. Such as CPU usage, Memory usage. You could hang up ,terminate or even kill the program, depends on your requirements.



4.2.6

◆ 4.2.7 Realtime Graphs

Click the Realtime Graphs ,you could check the load, traffic, wireless and connection of the device.

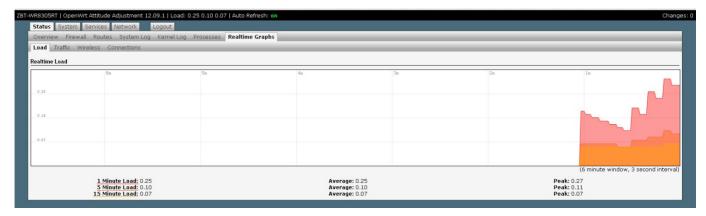
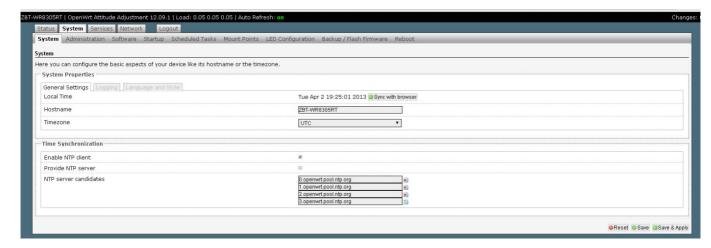


图 4.2.7

♦ 4.3.1 System

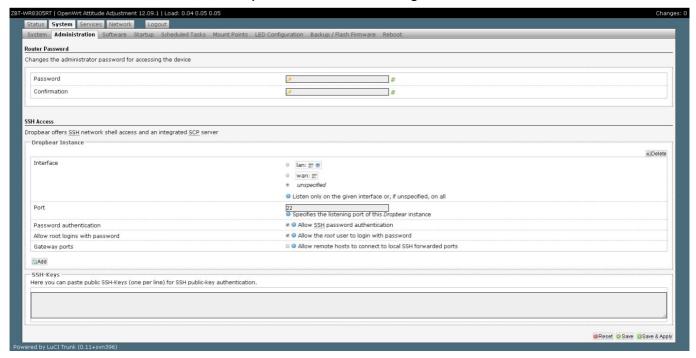
Click the System tag, you could check and edit some basic information of the device, including Local time, Hostname, time zone.



4.3.1

◆ 4.3.2 Administration

You can edit the administrator password for accessing the device



◆ 4.3.3 Software

Click the software page, you could download and install the package, do not operate it without a professional engineer.

♦ 4.3.4 Startup

Click to the Startup page, You can enable or disable installed init scripts here. Changes will applied after a device reboot, do not operate it without a professional engineer.

◆ 4.3.5 Schedule Tasks

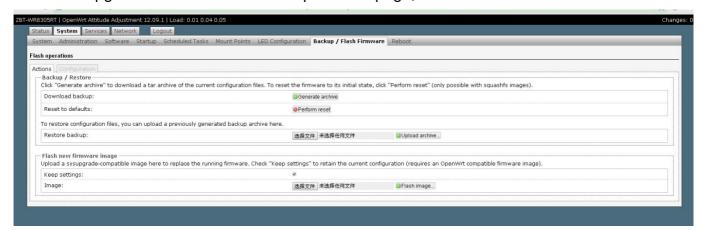
This is the system crontab in which scheduled tasks can be defined., do not operate it without a professional engineer.

◆ 4.3.6 Mount Points, LED Configuration

Do some edition about the system, do not operate it without a professional engineer.

◆ 4.3.7 Backup/Flash Firmware

You could upgrade the firmware or backup it in this page, as below.



4.3.7

◆ 4.3.8 Reboot

When you click the Reboot tag, the device will reboot.



■ 4.4. Service

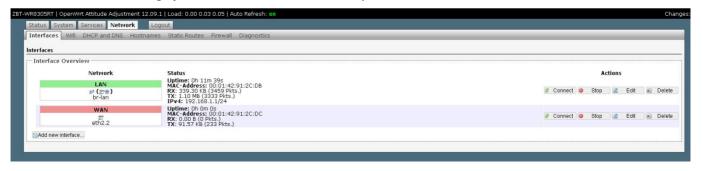
◆ 4.4.1 Dynamic DNS

Dynamic DNS allows that your router can be reached with a fixed hostname while having a dynamically changing IP address

■ 4.5 Network

◆ 4.5.1 Interfaces

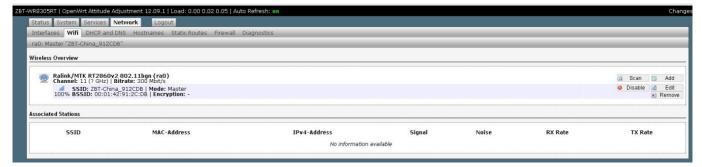
Click the Interface tag, you could check the wired port's status and edit it.



4.5.1

◆ 4.5.2 Wireless

Click the Interface tag, you could check the wireless port's status and edit it.



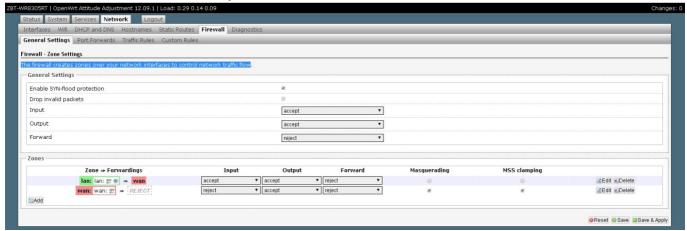
4.5.2

◆ 4.5.3 DHCP/DNS、Hostnames, Static Routes,

You could edit these setting in relevant page. do not operate it without a professional engineer.

♦ 4.5.4 Firewall

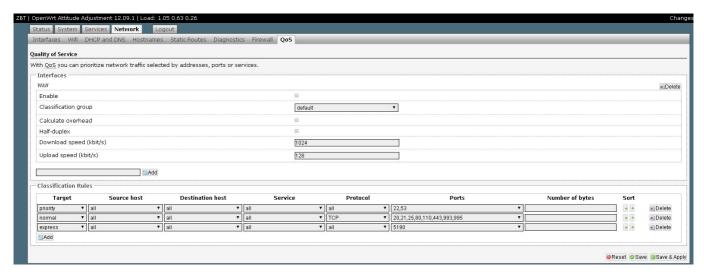
The firewall creates zones over your network interfaces to control network traffic flow



Pic 4.5.4□

◆ 4.5.5 QOS

With QoS you can prioritize network traffic selected by addresses, ports or services.



Pic 4.5.5

■ 4.6 Log out

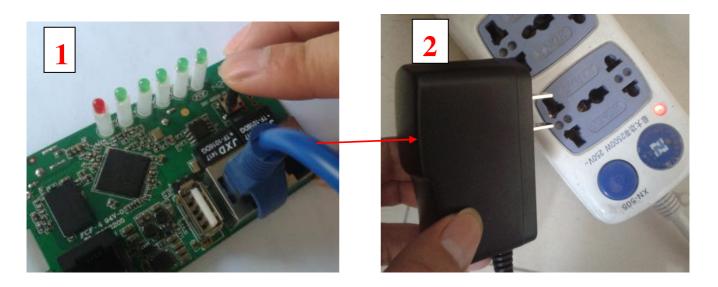
Click the Log Out tag, you will log out the website.

More details about the system. Please refer the https://openwrt.org/

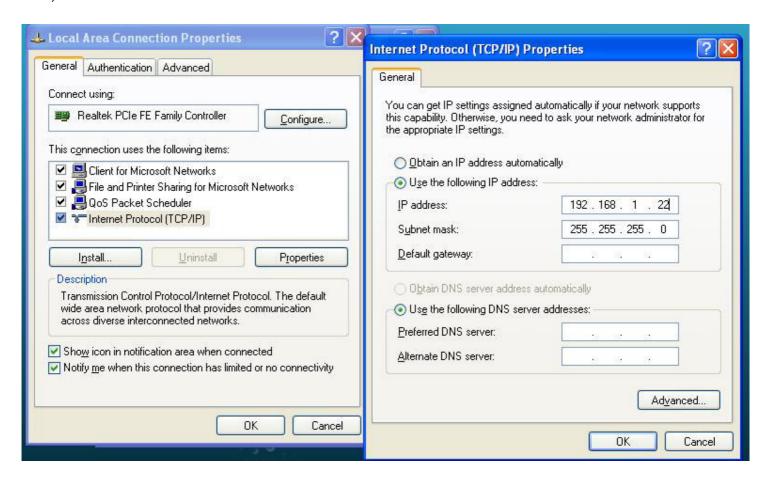
■ 4.7 Flash Firmware

Operate this keep the router connecting computer status.

First, use sharp item Pressing the RESET button as "Picture 1" below, then power on the router.



Second, set the computer TCP/IP in to static IP 192.168.1.X (X means any number between 2 to 255) and Subnet mask into 255.255.255.0



Third, key in 192.168.1.1 into browser, come into "Firmware recovery page" as below pic.

(this system developed based on Chinese ,so the page shows Chinese word)

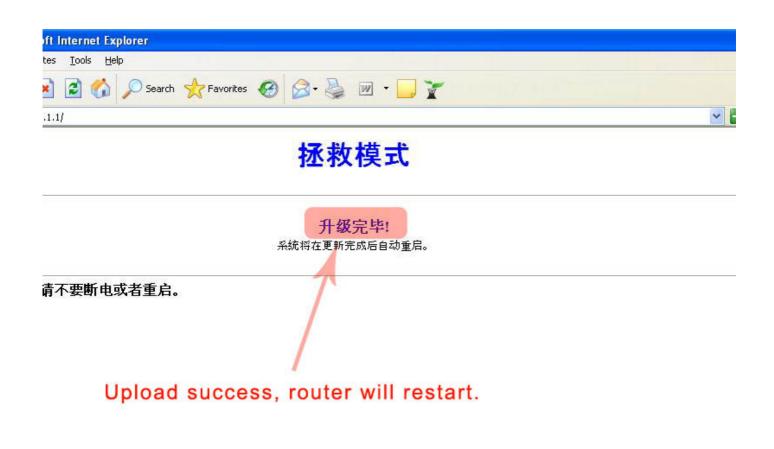
Click "Brower " button find the firmware "root_ulmage.ulmage" from your computer, double click "root ulmage.ulmage" to hang on it. Then click "刷新固件"to start uploading

(During uploading time,don't move or power off the router!! Otherwise will cause the router dead !!)



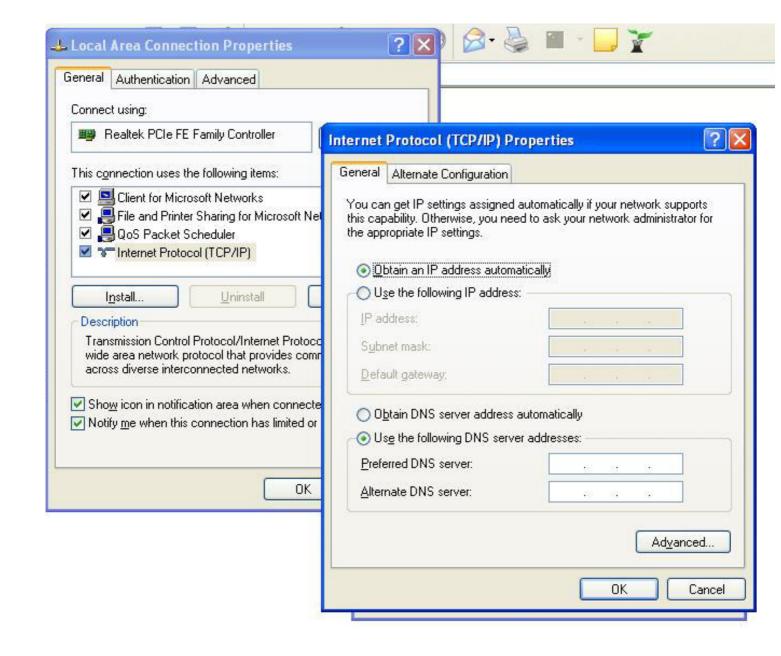
File Uploading,don't restar or power off the router during this time!!

About 100seconds, the file upload success will show "升级完毕" as below picture show. And the router will automatic restart





Fourth, Set the computer TCP/IP into automatic obtain IP



5. FAQ

1、LAN LED off

It is about the hardware connection issue, you could check follow below steps

- To check if the Ethernet cable plug into the port firmly.
- > To check if the network device is power on
- ➤ Make sure the Ethernet cable are working well □

2. The device work normally after setting. But the link will become unsteady after working some time, such as delay and package dropping.

It means there are some interference in the work environment, you could follow the below steps to solve such problem.

- > To check if each part of the connection are steady.
- If the signal strength are too weak, you can try to change the work channel, in order to

reduce the reference.

> Reboot the device.

Reset to the factory default setting.

After all the above steps, if it still have the same questions, please contact to the reseller or our FAE.