

# User Manual

# **Wifi Router**

# **Space Station**

CE0700!

## ■ Notified:

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## Product Overview .

### ■ 1.1 Simply Specification

- The SPACE STATION uses the latest 802.11AC protocol, the MAX transmission rate could be 750Mbps, both support the 2.4G IEEE802.11N and the 5G IEEE802.11AC wireless transmission technology, it could reduce the Co-Channel Interference, and will get a better transmission performance. The cover range is 3~4 times than the normal routers. We also assemble the USB2.0 interface, make it easier to add more function to the router.



1.1 SPACE STATION

## ■ 1.2 Main Feature& Specification

### ◆ 1.2.1 Main Feature

- Support the latest 11AC network protocol, the max rate is 1167Mbps(2.4G 300Mbps +5G 867Mbps)
- 1 WAN port +4 LAN port, all of them are Auto MDI/MDIX;
- 1 USB2.0.
- Many kinds of encryptions to protect your transmission data

### ◆ 1.2.2 Specification

- Support the latest IEEE802.11 A/AC/B/G/N protocol standard.
- Support TCP/IP、DHCP、ICMP protocol
- All the ports are Auto MDI/MDIX;
- Provide the indicator led and the power adapter (12VDC, 1.5A)
- Work Temperature: -20℃~ +35℃
- Work Humidity: 10% to 95% RH

## Hardware Description

- POWER: DC port for the power supply.
- **Note: The power adapter must be 12V 1.5A, if use any other un-suitable adapter , it may damage the device.**
- WAN Port(RJ45) , connect to the modem
- LAN Port(RJ45), to connect other devices , to share the internet.
- RESET: Reset button , reset back to the default setting.
- Antennas: For the wireless signal receiving and sending.

## ■ 2.2 Reset

If you want to reset 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 reset to the factory default setting.

Warning:

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/IP 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.

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

## 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 192.168.1.1Auto set the IP by the DHCP server.

### ✧ 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.

```
Reply from 192.168.1.1: bytes=32 time<1ms TTL=64
Reply from 192.168.1.1: bytes=32 time<1ms TTL=64
Reply from 192.168.1.1: bytes=32 time<1ms TTL=64
Reply from 192.168.1.1: bytes=32 time<1ms 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
Control-C
^C
C:\Documents and Settings\Administrator>\
```

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If it shows as below, it means fail

```
C:\Documents and Settings\Administrator>ping 192.168.1.1 -t

Pinging 192.168.1.1 with 32 bytes of data:

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

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 correct?

>> If the IP of the device is 192.168.1.1, your PC' s IP must be 192.168.1.xxx (xxx should be 2~253)

## Configuration Guide

### ■ 3.1 Start and Login

The router provides the UI based on the IE, this solution could work in any MS Windows, Macintosh or UNIX system. Run the browser, enable 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 administrator, which means you should enter the username: root /Password: admin, and then click the “login” .



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OpenWrt | SDK | Load: 0.00 0.00 0.01

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### Authorization Required

Please enter your username and password.

Username	<input type="text" value="root"/>
Password	<input type="password" value="*****"/>

[Reset](#) [Login](#)

## [2.1 Start and Login](#)

After login, you will see the below page.

Now will introduce different function on the page.:

OpenWrt | SDK | Load: 0.00 0.00 0.01 | Auto Refresh: **on** Changes: 0

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**Status** | System | Services | Network | Logout

**Overview** | Firewall | Routes | System Log | Kernel Log | Processes | Realtime Graphs

### Status



#### System

Hostname	OpenWrt
Model	MT7620
Firmware Version	Host System SDK / LuCI (SVN)
Kernel Version	2.6.36
Local Time	Mon Aug 4 21:31:04 2014
Uptime	0h 43m 17s
Load Average	0.00, 0.00, 0.01

#### Memory

Total Available	100568 kB / 125232 kB (80%)
Free	85704 kB / 125232 kB (68%)
Cached	11520 kB / 125232 kB (9%)
Buffered	3344 kB / 125232 kB (2%)

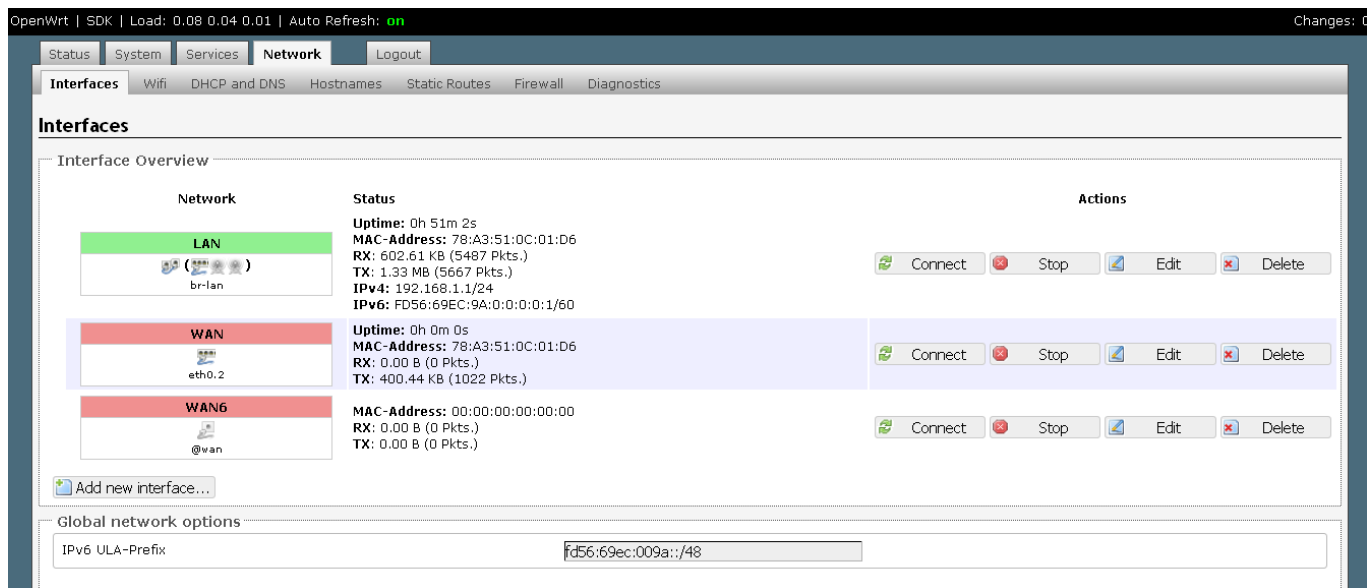
#### Network

IPv4 WAN Status	 ? Not connected
IPv6 WAN Status	 - Not connected

## ■ 3.2 Network

Click the network, you will see the P 4.1:

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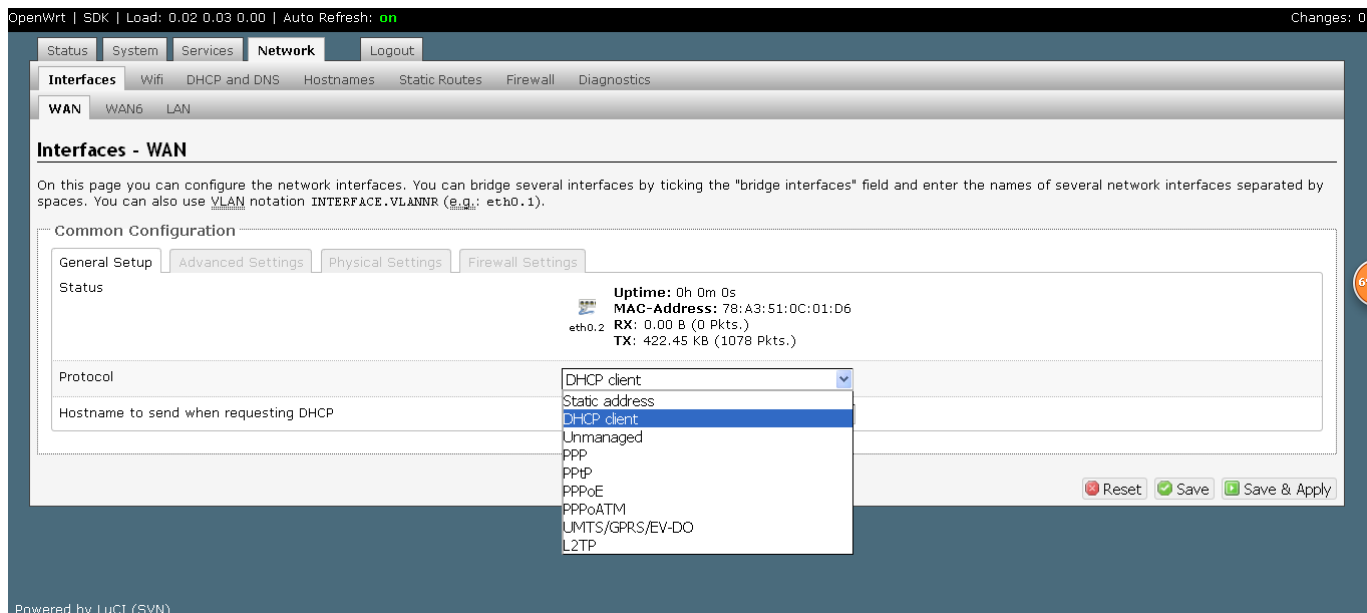


## [4.1 Network](#)

### ◆ 3.2.1 WAN

Click the WAN, you could edit it, change the protocol (such as statics

IP,PPPOE),please refer the P 4.2

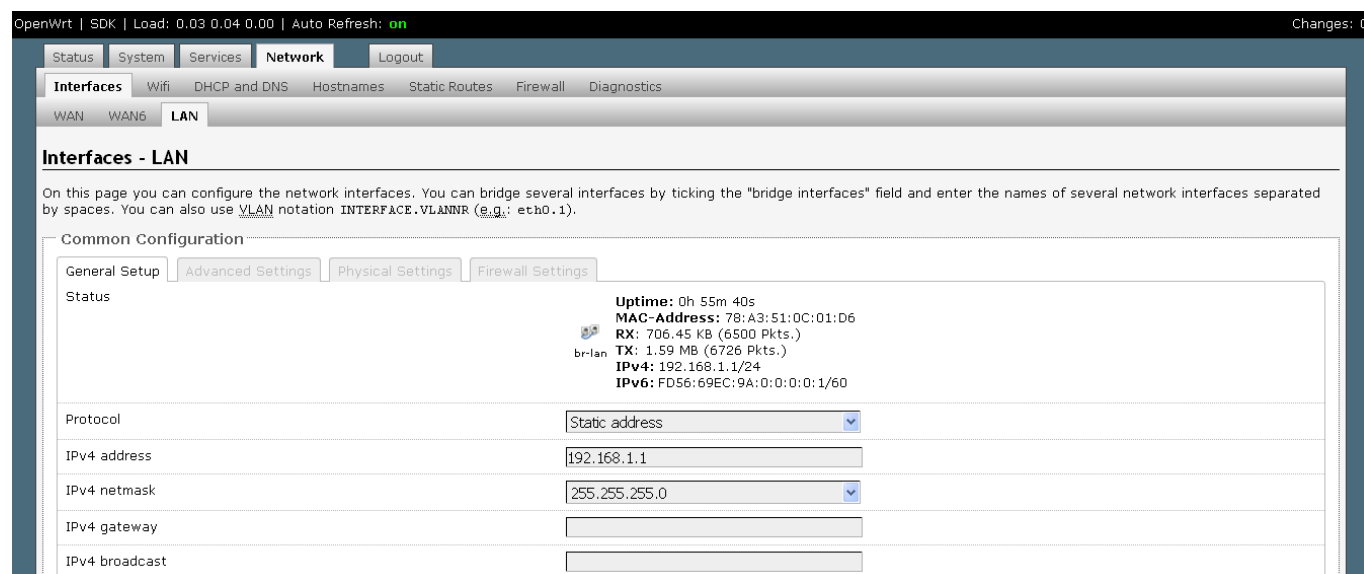


## [4.2 WAN Setting](#)

### ◆ 3.2.2 LAN

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LAN setting, you could enable/stop and set all the network function(such as change the name, IP address , DHCP and so on) as the P 4.3

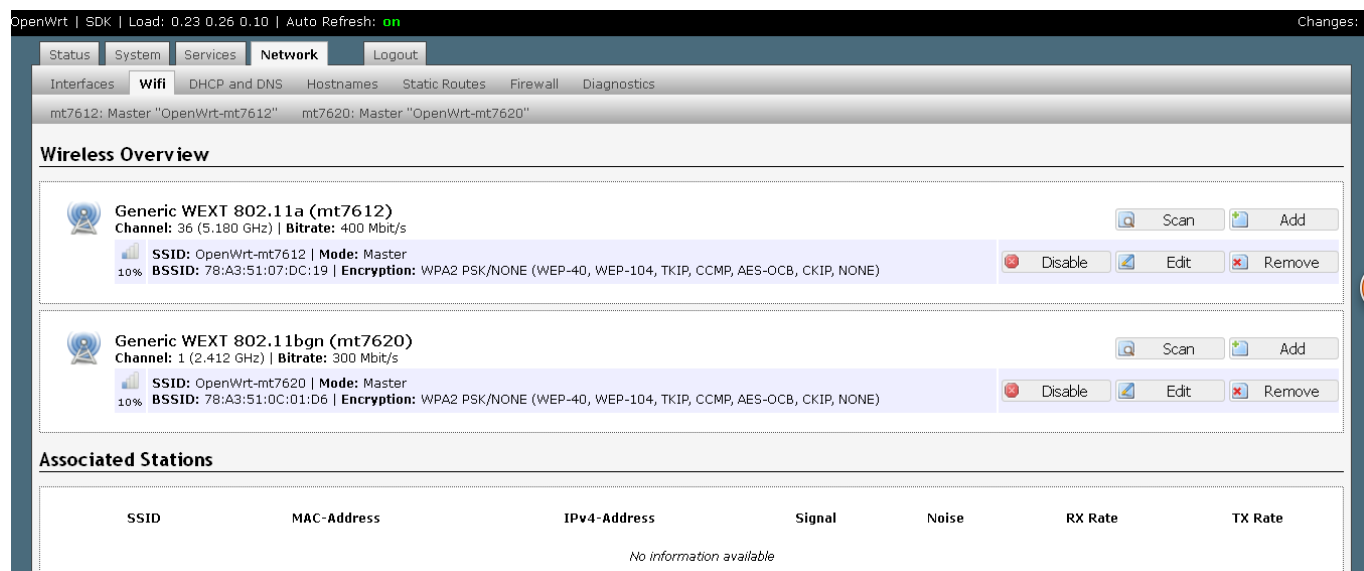


The screenshot shows the OpenWrt web interface. At the top, there's a status bar with 'OpenWrt | SDK | Load: 0.03 0.04 0.00 | Auto Refresh: on' and 'Changes: 0'. The main navigation bar includes 'Status', 'System', 'Services', 'Network', and 'Logout'. Under 'Network', there are sub-tabs: 'Interfaces', 'Wifi', 'DHCP and DNS', 'Hostnames', 'Static Routes', 'Firewall', and 'Diagnostics'. The 'Interfaces' tab is active, and within it, the 'LAN' sub-tab is selected. The page title is 'Interfaces - LAN'. Below the title, there's a descriptive paragraph about configuring network interfaces. The 'Common Configuration' section has four sub-tabs: 'General Setup', 'Advanced Settings', 'Physical Settings', and 'Firewall Settings'. The 'General Setup' tab is active. It shows the 'Status' of the 'br-lan' interface with details like 'Uptime: 0h 55m 40s', 'MAC-Address: 78:A3:51:0C:01:D6', 'RX: 706.45 KB (6500 Pkts.)', 'TX: 1.59 MB (6726 Pkts.)', 'IPv4: 192.168.1.1/24', and 'IPv6: FD56:69EC:9A:0:0:0:1/60'. Below this, there's a 'Protocol' dropdown set to 'Static address'. Further down, there are input fields for 'IPv4 address' (192.168.1.1), 'IPv4 netmask' (255.255.255.0), 'IPv4 gateway', and 'IPv4 broadcast'.

## [4.3 LAN setting](#)

### ■ 3.3 Wireless

Wireless setting , please refer the P5.1:



The screenshot shows the OpenWrt web interface for the 'Wifi' section. The top navigation bar is the same as the previous screenshot. Under 'Network', the 'Wifi' sub-tab is selected. The page title is 'Wireless Overview'. Below the title, there's a table listing two wireless interfaces: 'Generic WEXT 802.11a (mt7612)' and 'Generic WEXT 802.11bgn (mt7620)'. Each interface entry shows details like 'Channel', 'Bitrate', 'SSID', 'Mode', 'BSSID', and 'Encryption'. For the 802.11a interface, the channel is 36 (5.180 GHz) and bitrate is 400 Mbit/s. For the 802.11bgn interface, the channel is 1 (2.412 GHz) and bitrate is 300 Mbit/s. Both are in 'Master' mode. To the right of each entry are buttons for 'Scan', 'Add', 'Disable', 'Edit', and 'Remove'. Below the table, there's a section titled 'Associated Stations' with a table that has columns for 'SSID', 'MAC-Address', 'IPv4-Address', 'Signal', 'Noise', 'RX Rate', and 'TX Rate'. The table is currently empty, showing 'No information available'.

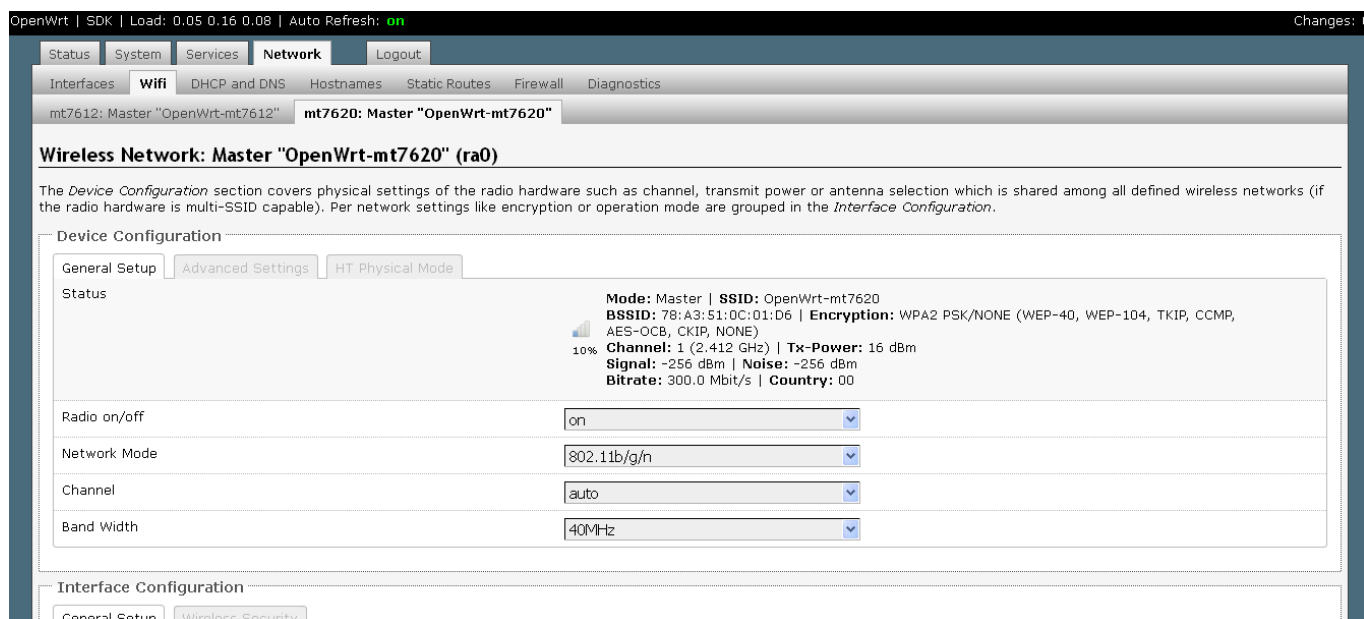
## [5.1 Wireless Setting](#)

### ◆ Wireless Setting.

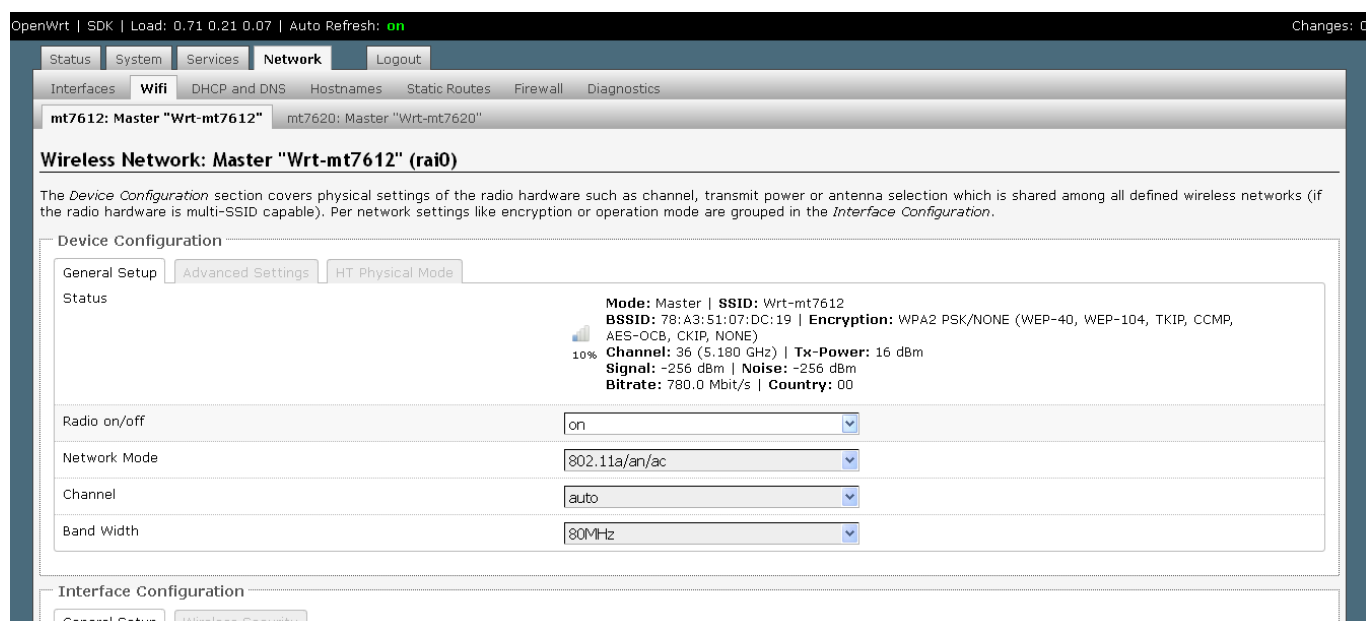
Click the Network-Wifi, you could do the basic wireless setting(such as SSID, channel,

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band width and so on) Please refer the P 5.2 -5.3



## 5.2 2.4G wireless setting.



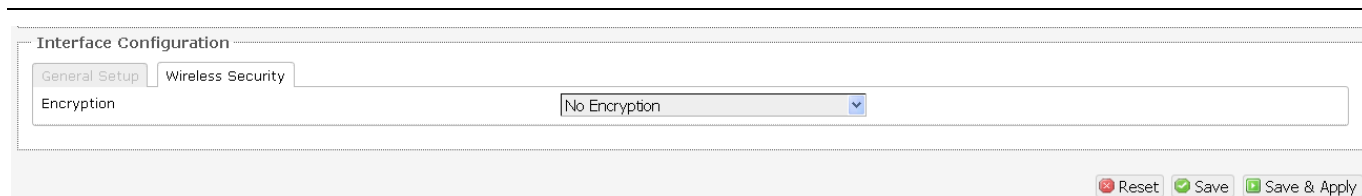
## 5.3 5 G wireless setting

In this page, you could do more detail setting of the wireless, such as wireless on/off, data transfer protocol, password setting.

### ◆ 4.1.Interface Configuration

In the Interface Configuration→wireless security, you could set the encryption mode and the password. Please refer the wireless encryption setting in the P 5.4

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Interface Configuration

General Setup Wireless Security

Encryption No Encryption

Reset Save Save & Apply

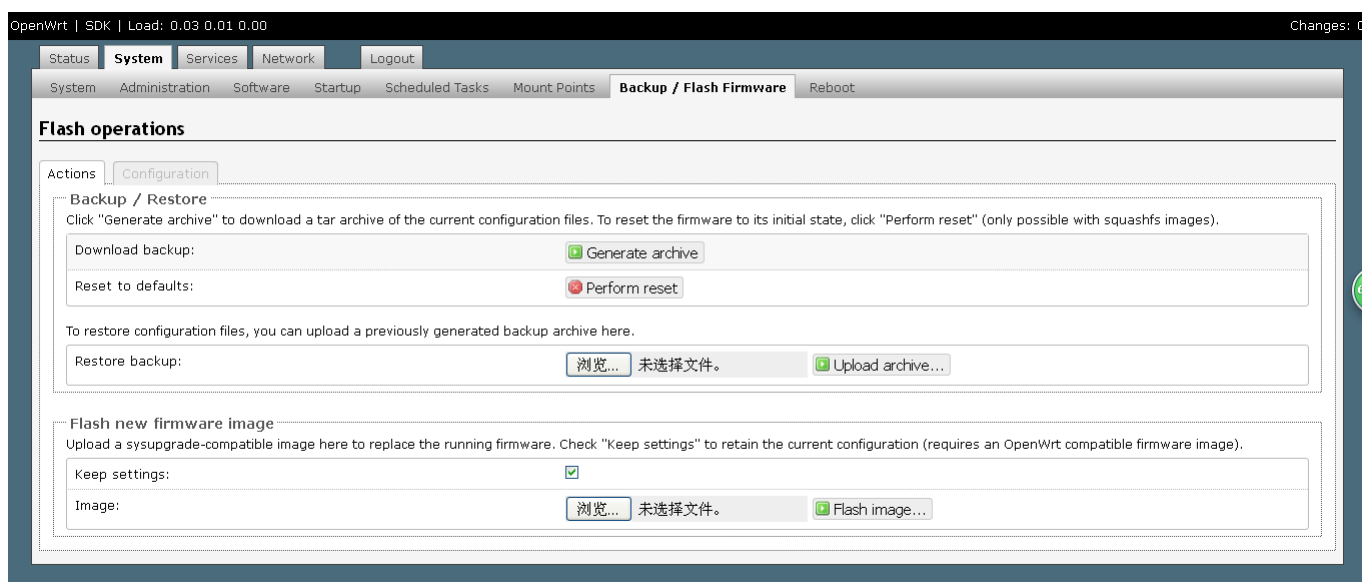
## 5.4 Wireless encryption setting.

Wireless Work mode and the parameter:

- SSID: The name of the wireless.
- Channel: To choose the wireless work channel, from 1 to 14.
- Mode: To choose the device work mode, you could choose the 2.4G-300M 802.11b/g/n mode, 5.8G-866M 802.11a/n/an/ac
- Unable the wireless: When you want to shut down the wireless.
- Access Point: Router work in the AP mode.
- SSID broadcast: If it is enable, the SSID of the device could be connecting.

## ■ 4.2.system

Click **system**→**Backup/Flash firmware**, you could see the below 6.1:



OpenWrt | SDK | Load: 0.03 0.01 0.00 Changes: 0

Status System Services Network Logout

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

### 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:  未选择文件。

#### 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:  未选择文件。

## 6.1Backup/Flash firmware

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You could set the config file backup or reset and upgrade the firmware.

Upgrade progress:

- Browse our website([www.worldgmn.com](http://www.worldgmn.com)), to download the latest firmware.
- Click the “image” , to choose the firmware you just download.
- Click “Flash image” , and click “yes”
- If the upgrading done, the device will reboot.

## Note:

Please use the correct version of the firmware. When it is upgrade, please keep the power on, or it will brick the device. After upgrading, the device will reboot automatically. After upgrading, the device will be back to default setting, please save the setting before upgrading.

## 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.**

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## **FCC Warning:**

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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

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.

“To comply with FCC RF exposure compliance requirements, this grant is applicable to only mobile configurations. The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.”

## **IC warning statements:**

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

The device meets the exemption from the routine evaluation limits in section 2.5 of RSS 102 and compliance with RSS-102 RF exposure, users can obtain Canadian information on RF exposure and compliance.

Le dispositif rencontre l'exemption des limites courantes d'évaluation dans la section 2.5 de RSS 102 et la conformité à l'exposition de RSS-102 rf, utilisateurs peut obtenir l'information canadienne sur l'exposition et la conformité de rf.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

Cet émetteur ne doit pas être Co-placé ou ne fonctionnant en même temps qu'aucune autre antenne ou



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émetteur. Cet équipement devrait être installé et actionné avec une distance minimum de 20 centimètres entre le radiateur et votre corps.

This radio transmitter (identify the device by certification number, or model number if Category II) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Le présent émetteur radio (identifier le dispositif par son numéro de certification ou son numéro de modèle s'il fait partie du matériel de catégorie I) a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

5GHz 5150-5250 MHz band is restricted to indoor operations only.

The product shall only be connected to a USB interface of version USB2.0

Please use common USB Cable or original charger, Otherwise, It may result to danger. When you use a charger for charging, adapter shall be installed near the equipment and shall be easily accessible.

Manufacturer of Power Adapter: BLUE IRON HOLDINGS LIMITED

Model: B118-120150-CdU (for US market), B118-120150-CdV (for EU market)

Parameters of Power adapter: INPUT: AC 100~240V, 50/60Hz 0.5A

OUTPUT: 12V/1.5A

Note: different country will be equipped with different adapter, and the difference only lies in the model name and the plug shape, all the ratings are the same, for example, model B118-120150-CdV will only be used when sold in EU market, no other adapter will be in the package together.

## Declaration Of Conformity

Hereby, Quality Technology Industrial Co.,Ltd Declares that this Wifi Router is in compliance with the essential requirements and other relevant provisions of directive 1999/5/EC.