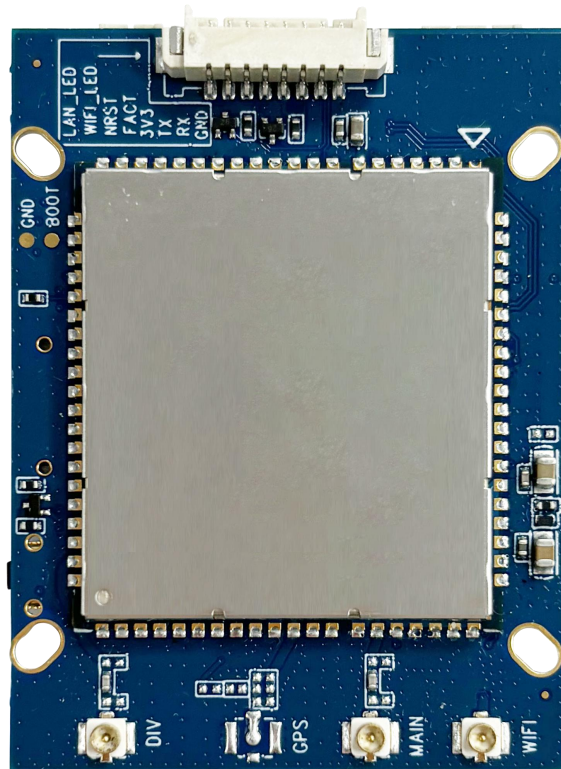


# ComIoT 24

## 4G wireless data transmission routing module product specifications



- Plug and play automatic dial-up Internet access
- Support WiFi
- Support 5-12V wide voltage power input
- Highly reliable performance, low cost, low power consumption
- Standard security 38mm \* 38mm positioning hole for easy assembly

## Product Description

The ComIoT 24 wireless monitoring routing core board is based on the domestic 4G cellular communication and WIFI technology platform, supports wireless communication components of FDD-LTE , TDD-LTE and WLAN multiple network standards, and is specially designed for plug-and-play wireless monitoring applications. At the same time, ComIoT 24 can also be widely used in various IoT front-end data collection and collection, as well as medium and high-speed data transmission units (DTU). The standardized interface can directly connect to the control motherboard for rapid joint debugging to achieve application solutions. ComIoT 24 mainly provides power interface , USB interface , SIM card holder interface , soft reset button , UART interface , sleep wake-up interface , RF interface , and 10M/100M network interface.

## Device interface identification description

project	Specification Description	Remark
Power interface	Input: DC5~ 12V	
USB interface	Type interface×1	
USIM interface	1.8V/3.0V Nano (U)SIM card	
Ethernet interface	RJ45, 10/100 M adaptive, LAN/WAN configurable	
UART interface	UART interface×1	
Reset button	Press and hold for more than 3 seconds to restore factory settings	
Start switch	DIP start switch x1	
LED indicator	Power on state	

## Hardware specifications

main chip	ASR1803 platform
Flash	16MB

DDR		32MB
Wifi protocol		802.11n/g/b
Ethernet interface		LAN port (built-in)
support network network frequency part	(CN) Asia	TDD LTE: B34/B38/B39/B40/B41
		FDD LTE: B1/B3/B5/B8
		WCDMA: B1/B5/B8
	(EU) Europe and Australia	TDD LTE: B38/B40/B41
		FDD LTE: B1/B3/B5/B7/B8/B20/B28
		WCDMA: B1/B5/B8
	(AN) Americas	TDD LTE: B38/B40/B41
		FDD LTE: B1/B2/B3/B4/B5/B7/B8/B28/B12/B17/B66
		WCDMA: B1/B2/B4/B5/B8
LTE rate		FDD-LTE 150M DL / 50M UL Cat4
		TDD-LTE 130M DL / 35M UL Cat4
SIM card slot		support Nano SIM card
serial port		support 1 serial port (internal)
Network port		support 1 way RJ45 Network port (internal)
Wifi		2.4G
Wifi speed		72Mbps
Maximum number of connected devices		8
USB interface		support 1 way USB2.0 (Type C)
RESET		Support factory reset button
Spacing between power supply, network port and serial port		1.25mm

led indicator light	Power indicator light (green)
Dial mode	RNDIS
operating system	Windows/Linux/Android
Operating temperature	-20 ℃ - 80 ℃
Operating Voltage	5-12V
Web Backstage	IP: 192.168.1.1 , login account admin: admin

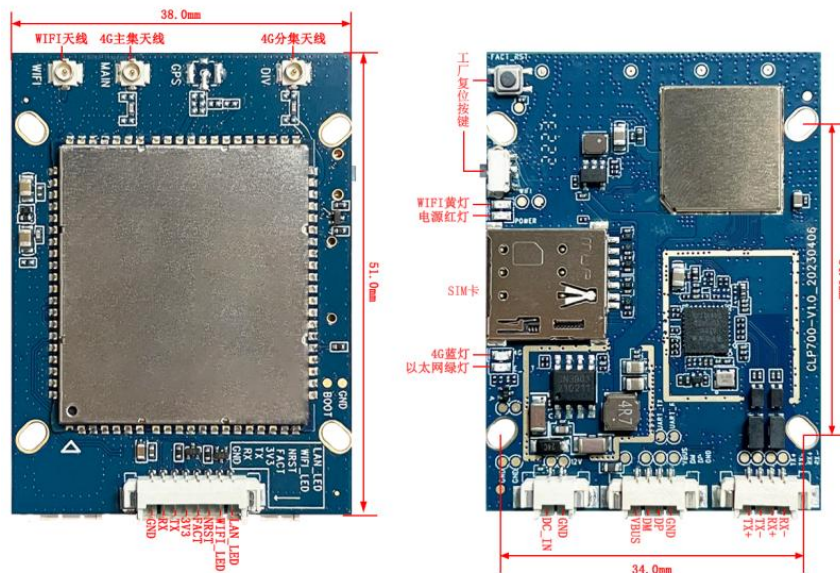
\* Band description:

Asia : China, India, Vietnam, Mongolia, Myanmar, Laos, Sri Lanka, Bangladesh, Cambodia, Pakistan, Nigeria, South Africa, Egypt, Ghana, Algeria, Ethiopia , Angola, Botswana, Burkina Faso, Burundi, Congo, Togo , Etrete Verde, Gambia, Congo, Guinea, Ghana, Namib Asia:

Europe and Australia : South America: Australia, New Zealand, Brazil, Argentina, Chile, Bolivia, Colombia, Paraguay, Uruguay; Europe: United Kingdom + Russia + the whole EU; Taiwan, Indonesia, Malaysia, Thailand, Singapore, Philippines, South Korea, Iran, Turkey, Saudi Arabia, Kazakhstan, Uzbekistan, Afghanistan, Iraq, Yemen, Oman, Syria, Egypt, Iran, Turkey, Saudi Arabia, most of the Middle East, Culture: Kenya, Libya

Americas : United States, Canada, Mexico, all South America

### Appearance, size and interface description



**Remark:**

1. The DC power supply voltage range is 5V to 12V. The POWER light is always red after powering on. It is recommended to use the matching power adapter.
2. Supports factory reset button, press and hold for more than 3 seconds after turning on the phone.
3. FACT is the factory reset grounding and then released after 3 seconds, NRST is the module reset grounding 3 seconds and then released.
4. The 4G network indicator light is blue, flashes slowly when there is no card or is not registered, and flashes quickly when registered normally.
5. The WIFI yellow light is always on when in standby and flashes slowly when connected normally.
6. The Ethernet green light lights up when the terminal is connected and flashes when there is data interaction.
7. Please clear your browser's browsing history before using the WEBUI management function.

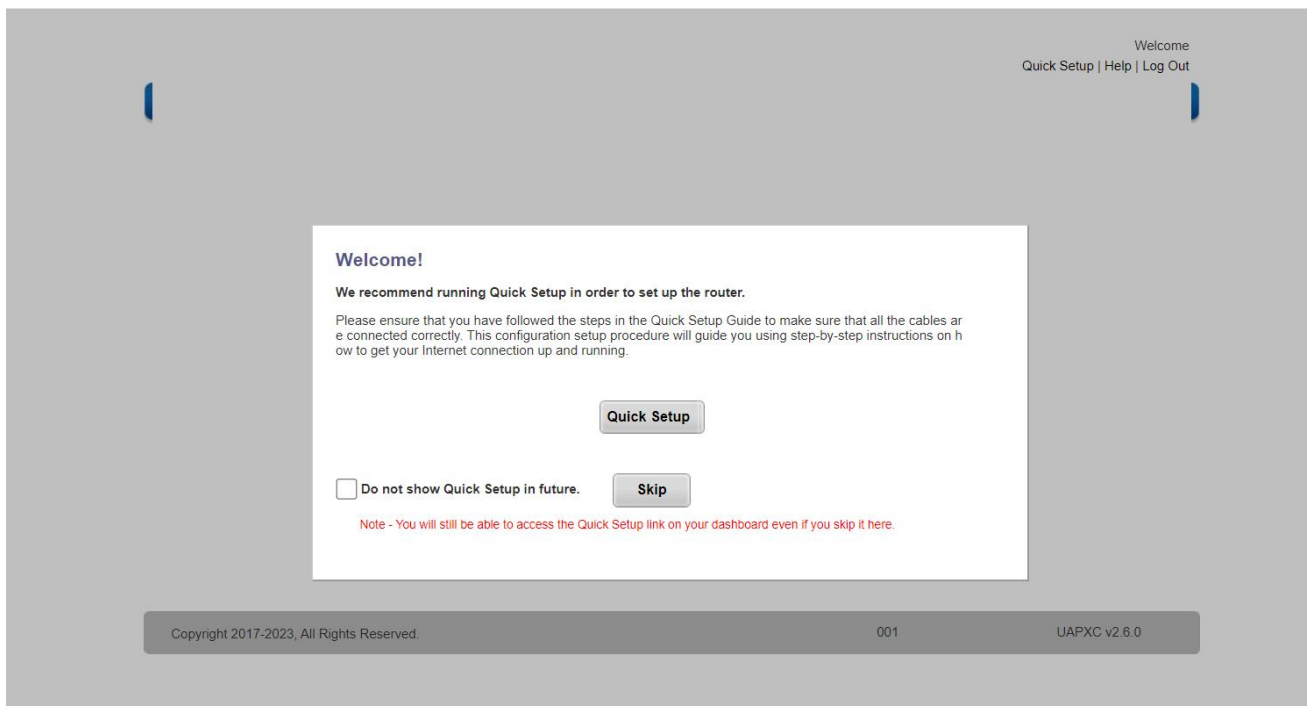
## WEBUI management system

The device can work with the default settings, and various default settings can also be modified through the WEBUI management page. The WEBUI management page supports Internet Explorer 11 and higher, Firefox, Chrome, Safari and other mainstream browsers.

### Basic function introduction

The interface after the user logs in by entering "192.168.1.1" in the browser

When logging in for the first time, you can select Quick Settings to set up basic routing functions in sequence, or skip and enter the page directly.



Enter the page to view the basic information and status of the device

Dashboard

Internet

Home Network

SMS

Wireless

Router



## Internet

## Cellular Connection

Signal Strength:

Cellular Data Connectivity:  
Enabled[Disabled](#)

## Internet Connection

Network Operator:  
中國電信Cellular Network Mode:  
LTE

## PDP Information

PDN1 ▾

PDP Type  
Default Primary PDPPDP Connection Status  
connectedIPv4 Address  
10.11.151.149IPv4 DNS Server  
202.96.128.86, 202.96.134.133IPv4 Default Gateway  
10.11.151.108IPv4 Network Mask  
255.0.0.0IPv6 Address  
fe80:0000:0000:0000:17c7:dd13:fd72:f19dGlobal IPv6 Address  
240e:047c:3218:f359:17c7:dd13:fd72:f19dIPv6 DNS Server  
240e:001f:0001:0000:0000:0000:0000:0001  
240e:001f:0001:0000:0000:0000:0000:0033IPv6 Default Gateway  
fe80:0000:0000:0000:0000:0000:0000:0001IPv6 Network Mask  
0000:0000:0000:0000:0000:0000:0000:0000Current Connect Time  
0 Day 0 Hour 2 Minutes 31 Seconds

## Router

## Router Information

Router LAN IP:  
192.168.1.1IMEI:  
353899261401754ICCID:  
89860322247553635930Router Network Mask:  
255.255.255.0Router MAC:  
e8:49:43:0a:b6:9eRun Time:  
0 Day 0 Hour 2 Minutes 40 Seconds

## Software Information

Software Version:  
001-V4.0.2Hardware Version:  
001

## Auto APN List

MCC: 460

MNC: 11

Operator Name: CTCC

APN: ctnet

LTE APN: ctnet

Network Type: 0

2G3G Auth Type: NONE

2G3G User Name:

2G3G Password:

4G Auth Type: NONE

4G User Name:

4G Password:

Ip Type: IPv4v6

## Home Network

## Connected Devices

0

## Wireless

Enabled

## Wireless Settings

Wireless Network:  
4G\_AP\_B00ESecurity Mode:  
WPA2-PSKChannel Number:  
Automatic

## DHCP Server

Enabled

## Internet

### Internet connection

The Internet connection interface mainly refers to LTE dial-up related setting functions. You can choose a priority network mode, for example, you can choose LTE working mode or WCDMA working mode. You can set MTU parameters, configure automatic adaptation to APN, etc.

APN setting function, the device is preset with most operator APN related settings, and the APN can be automatically matched if it is set to automatic selection mode. If the SIM card is special, it may not be automatically matched. In this case, you can set the APN manually . You need to uncheck the Automatically match APN option first, and then set it manually. If you still cannot access the network after setting up the APN according to the SIM card operator's requirements , you can try to change the authentication type. The two authentication types are different, so you can try both.

Welcome  
Quick Setup | Help | Log Out

DashboardInternetHome NetworkSMSSMSWirelessRouter

Internet Connection

BAND

PING Configuration

Serial TCP/IP

PIN Management

Manual Network

USSD

Internet Connection

My Internet Connection is  
Cellular

Network Mode  
4G/3G/2G multimode

Preferred Network Mode  
4G Preferred

Preferred LTE Type  
TD-LTE preferred

Connection Mode:  
Auto ☐ prohibit automatic dial-up in the roaming status.

MTU  
1500 (1000-1500)

Auto APN  
☒ Auto Configure APN

Engineering Mode  
Disabled

PDN1 Settings:  
☒ Manual APN Settings  
☐ Dedicated Bearer1 ☐ TFT Setting

Save

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Welcome  
Quick Setup | Help | Log Out

Dashboard | Internet | Home Network | SMS | Wireless | Router

**Internet Connection**  
BAND  
PING Configuration  
Serial TCP/IP  
PIN Management  
Manual Network  
USSD

**Internet Connection**  
My Internet Connection is  

Cellular

?

Network Mode  

4G/3G/2G multimode

Preferred Network Mode  

4G Preferred

Preferred LTE Type  

TD-LTE preferred

**PDP Setting**
✕

PDP connection name 

PDN1

2G/3G APN Name: 

cmnet

LTE APN Name: 

cmnet

IP type 

IPv4

Enable QOS ☐

2G3G Authentication Type 

PAP

2G3G User Name 

any

2G3G Password 

any

LTE Authentication Type 

PAP

LTE User Name 

any

LTE Password 

any

OK

[Cancel](#)

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UAPXC v2.6.0

## PING settings

This feature is disabled by default.

After enabling, you need to set the ping network address, ping interval, ping timeout time, ping timeout times, ping retry delay and ping mode . If there is a network problem and the ping fails and the set number of times is reached, the device will restart .



This setting takes effect after restarting.

Welcome  
Quick Setup | Help | Log Out

Dashboard | Internet | Home Network | SMS | Wireless | Router

Internet Connection  
BAND  
**PING Configuration**  
Serial TCP/IP  
PIN Managment  
Manual Network  
USSD

**PING Configuration**  
PING State  
Enabled  
PING Server  
PING Interval  
Seconds  
PING Timeout  
Seconds  
PING Count  
PING Delay  
PING Mode  
Fixed interval  
Save

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## PIN code management

The PIN code management interface provides SIM card PIN management functions, which can enable, disable, and verify SIM PIN functions, providing a certain degree of security for the use of SIM cards.

Welcome  
Quick Setup | Help | Log Out

Dashboard | Internet | Home Network | SMS | Wireless | Router

Internet Connection

BAND

PING Configuration

Serial TCP/IP

**PIN Management**

Manual Network

USSD

PIN/PUK Attempts

The number of PIN attempts left: 2

The number of PUK attempts left: 10

Enable PIN

Enable PIN ?

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## Manual network selection

Manual network selection interface For special SIM cards, you can manually search the network and select a network that can be registered.

Welcome  
Quick Setup | Help | Log Out

Dashboard | Internet | Home Network | SMS | Wireless | Router

Internet Connection

BAND

PING Configuration

Serial TCP/IP

PIN Management

**Manual Network**

USSD

Manual Network

Manual Scan Network

Selectable Network:

Auto

Manually select network when system start

☐ I want to manually select network when system start

LTE background scan network time

5 minutes

Current Select Network Mode

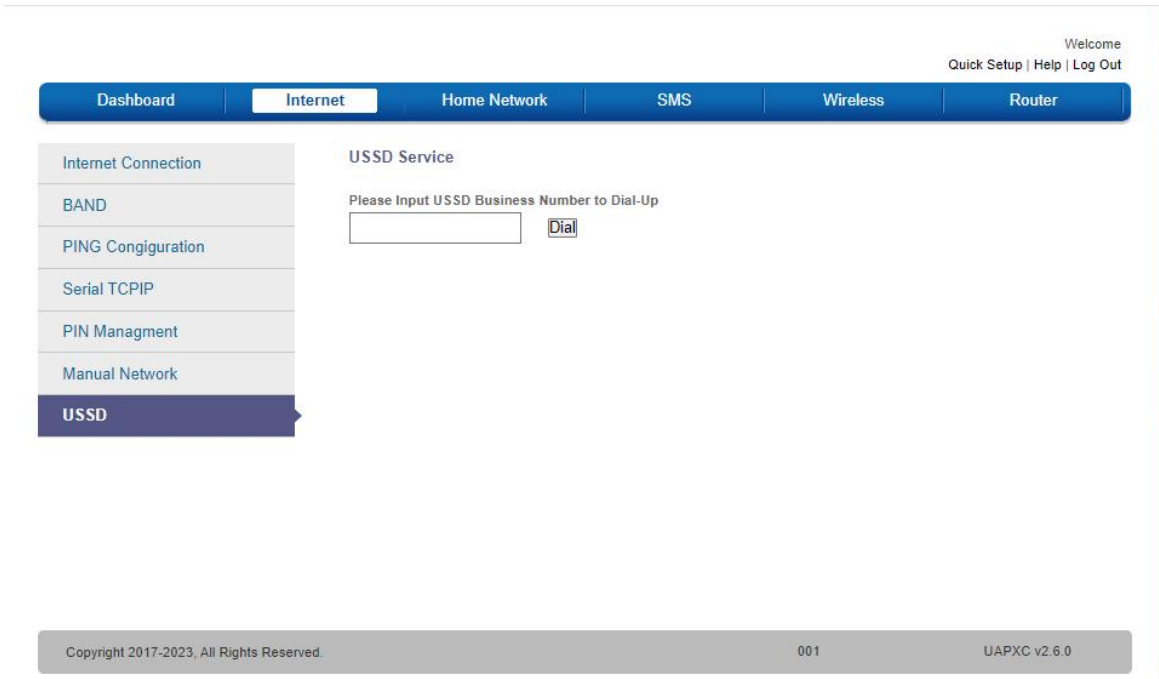
Automatic Mode

Save

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## USSD function

For some SIM cards that require the USSD function, the USSD dialing function can be initiated on the USSD interface, and the USSD information is also displayed here.



The screenshot shows the 'USSD Service' page within the MovingComm web portal. The top navigation bar includes 'Dashboard', 'Internet' (selected), 'Home Network', 'SMS', 'Wireless', and 'Router'. On the right, there are links for 'Welcome', 'Quick Setup', 'Help', and 'Log Out'. A left sidebar lists various settings: 'Internet Connection', 'BAND', 'PING Configuration', 'Serial TCP/IP', 'PIN Management', 'Manual Network', and 'USSD' (highlighted). The main content area is titled 'USSD Service' and contains the instruction 'Please Input USSD Business Number to Dial-Up' above a text input field and a 'Dial' button. The footer displays 'Copyright 2017-2023, All Rights Reserved.', the page number '001', and the version 'UAPXC v2.6.0'.

## home network

### DHCP settings

This page can configure the gateway address of the device, the IP address connected to the device and the number of connected devices, and can limit the connection of WiFi devices, etc.

Welcome  
Quick Setup | Help | Log Out

DashboardInternetHome NetworkSMSSMSWirelessRouter

DHCP Settings

Connected Devices

Network Activity

Custom Firewall Rules

Port Filter

Port Forwarding

DHCP Settings ?

DHCP Range:  
192.168.1.1

Router LAN IP:  
192.168.1.1

DHCP Server:  
☒ Enabled ☐ Disabled

DHCP Start Address:  
192.168.1.100

DHCP End Address:  
192.168.1.200

DHCP Lease Time:  
86400 (in Seconds)

DNS Configure Switch  
Disabled

DNS1 IP Address:

DNS2 IP Address:

Redirection Function  
☐ Enabled ☒ Disabled

Add Static IP

MAC Address	IP Address
No entries found.	

DHCPV6 Settings

DHCPV6 Server:  
☒ Stateless Server ☐ Stateful Server

Save

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## Device connected

The interface displays a list of devices that have been connected via USB or WIFI.

Welcome  
Quick Setup | Help | Log Out

Dashboard | Internet | Home Network | SMS | Wireless | Router

DHCP Settings

Connected Devices


Network Activity

Custom Firewall Rules

Port Filter

Port Forwarding

Connected Devices ?

Name	Status	IP Address	MAC Address	Connection	Connected time
8c:16:45:84:1f:de		192.168.1.10	8c:16:45:84:1f:de	USB	0 Hour 12 Minutes 1 Second

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## Log interface

The log mainly records the time of dial-up connection and the time of wireless terminal connection.

Welcome  
Quick Setup | Help | Log Out

Dashboard | Internet | Home Network | SMS | Wireless | Router

DHCP Settings

Connected Devices

Network Activity

Custom Firewall Rules

Port Filter

Port Forwarding

Last Login Time: 4/20/2024 11:42:55 ?

Access Logs Delete

PDP Name	CID	Start Time	End Time	IP Type	IPv4 Addr	IPv6 Addr	
----------	-----	------------	----------	---------	-----------	-----------	--

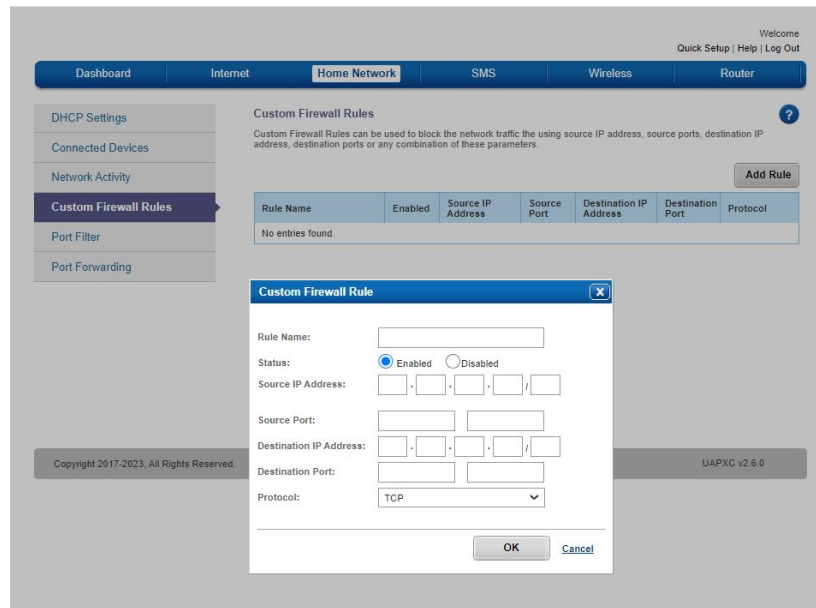
WiFi Client Access Logs Delete

Client MAC Address	Connect Time	Disconnect Time	
--------------------	--------------	-----------------	--

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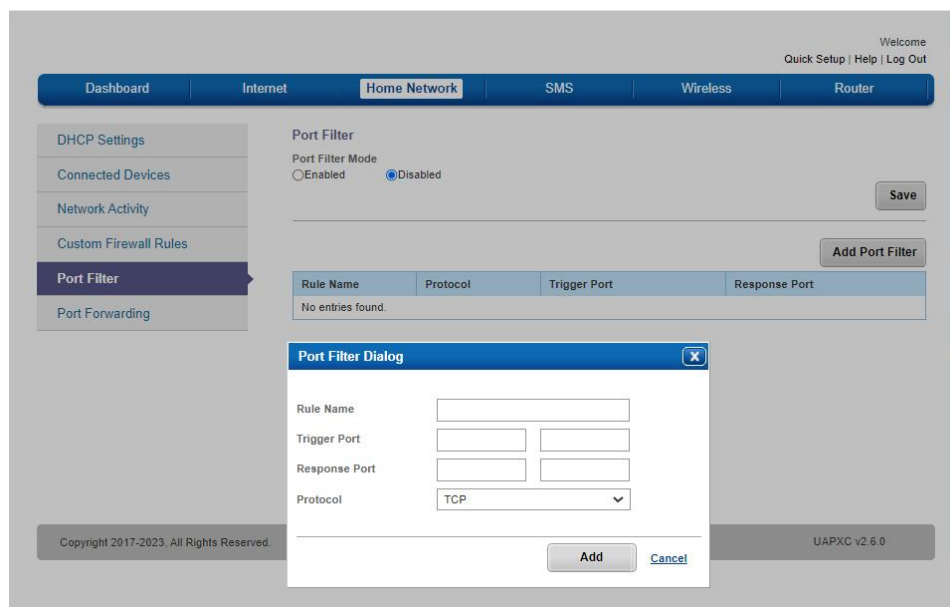
## User firewall rules

The firewall interface provides certain security management functions, which can manage specific IP and port data packets, and control device access to the network by setting the source IP address (port), destination IP address (port), or any combination of these parameters.



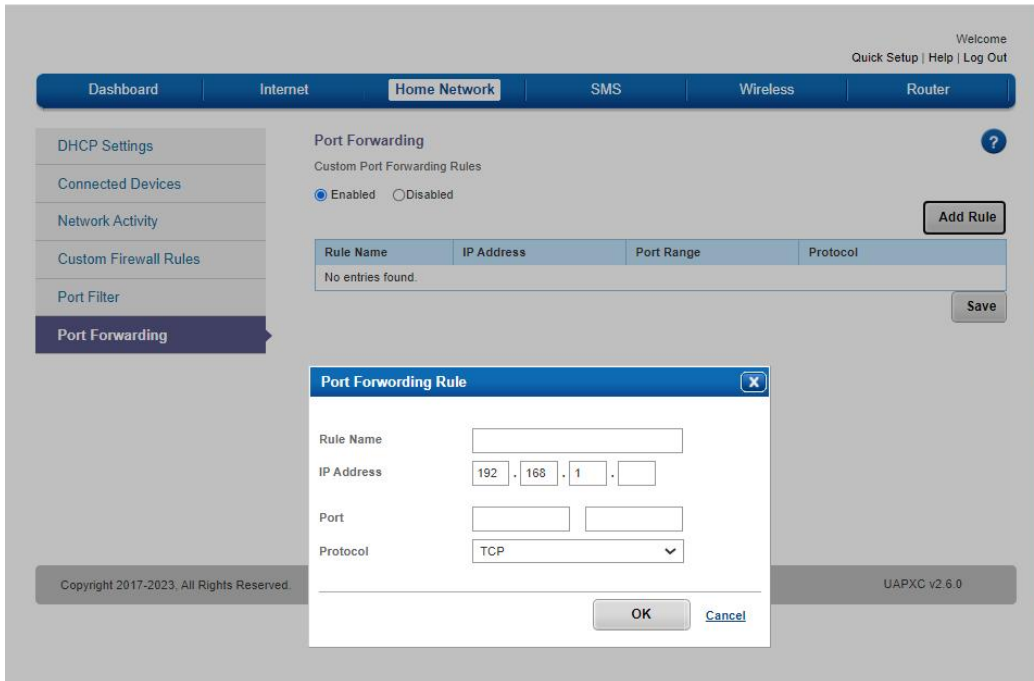
## Port filtering

The port filtering interface provides the function of managing data packets according to ports.



## Port Mapping

The port mapping interface provides the function of mapping external network ports to unreachable ports on the internal network.



The screenshot shows the 'Port Forwarding' configuration page in the MovingComm router's web interface. The page has a top navigation bar with tabs: Dashboard, Internet, Home Network (selected), SMS, Wireless, and Router. On the left, a sidebar lists various settings: DHCP Settings, Connected Devices, Network Activity, Custom Firewall Rules, Port Filter, and Port Forwarding (highlighted). The main content area is titled 'Port Forwarding' and includes a 'Custom Port Forwarding Rules' section with 'Enabled' and 'Disabled' radio buttons (the 'Enabled' button is selected). Below this is a table with columns: Rule Name, IP Address, Port Range, and Protocol. The table currently shows 'No entries found.' To the right of the table are 'Add Rule' and 'Save' buttons. A modal window titled 'Port Forwarding Rule' is open in the foreground, containing fields for Rule Name, IP Address (with a pre-filled value of 192.168.1.), Port (two empty input boxes), and Protocol (a dropdown menu set to TCP). At the bottom of the modal are 'OK' and 'Cancel' buttons. The footer of the interface includes 'Copyright 2017-2023, All Rights Reserved.' on the left and 'UAPXC v2.6.0' on the right.

## Text Message

### SMS settings

Set the SMS storage location, sending mode, time validity period and center number.



Welcome  
Quick Setup | Help | Log Out

Dashboard | Internet | Home Network | SMS | Wireless | Router

SMS Settings

Device Inbox

Device Outbox

SIM SMS

Drafts

SMS Settings

Delivery Report  
☐ Enabled ☒ Disabled

SMS Save Location  
Device

SMS Over Mode  
SMS Over PS Prefer

Validity  
Maximum

Center Number  
+8613334262200

Save

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## Inbox

The interface for receiving text messages sent from mobile phones and other devices does not support telecommunications cards.

Welcome  
Quick Setup | Help | Log Out

Dashboard | Internet | Home Network | SMS | Wireless | Router

SMS Settings

Device Inbox

Device Outbox

SIM SMS

Drafts

Device Inbox

New Delete Copy to SIM Move to SIM

From	Subject	Time	Status	
------	---------	------	--------	--

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## Outbox

You can send text messages to mobile phones or other devices. Telecom cards are not supported.

Welcome  
Quick Setup | Help | Log Out

Dashboard | Internet | Home Network | **SMS** | Wireless | Router

SMS Settings  
Device Inbox  
**Device Outbox**  
SIM SMS  
Drafts

Device Outbox

New Delete ?

Receiver	Subject	Time	Status	
----------	---------	------	--------	--

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## SIM card side information

Information stored in the SIM card

Welcome  
Quick Setup | Help | Log Out

Dashboard | Internet | Home Network | **SMS** | Wireless | Router

SMS Settings  
Device Inbox  
Device Outbox  
**SIM SMS**  
Drafts

SIM SMS

New Delete Copy to Device Move to Device ?

From	Subject	Time	Status	
------	---------	------	--------	--

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## draft box

Messages that have been edited but not sent can be saved in the draft box.

Welcome  
Quick Setup | Help | Log Out

Dashboard
Internet
Home Network
**SMS**
Wireless
Router

SMS Settings
Device Inbox
Device Outbox
SIM SMS
**Drafts**

Drafts

From

Subject

Time

Status

New

Delete

?

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## wireless

### wireless setting

You can set the wireless working mode, channel bandwidth, channel, maximum number of connected clients, etc. You can also adjust some parameters of WIFI.

Welcome  
Quick Setup | Help | Log Out

Dashboard
Internet
Home Network
SMS
**Wireless**
Router

**Wireless Settings**
Wireless Security Settings
Wireless MAC Filters

Wireless Settings

Status:

☒ Enabled
☐ Disabled

802.11 Mode:

802.11n(b/g compatible)

Channel Bandwidth:

20 MHz

Primary Channel:

Automatic

Band40 ACS Switch

☒ Enabled
☐ Disabled

Maximum Simultaneous Clients:

8

Beacon Period Setting

100 (in msec(50~4000))

DTIM Interval Setting

1 (1~100)

AP Isolate Switch

Close

Save

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## wireless security settings

You can set the WIFI AP SSID name, wireless encryption password, etc.

Welcome  
Quick Setup | Help | Log Out

Dashboard | Internet | Home Network | SMS | **Wireless** | Router

Wireless Settings  
**Wireless Security Settings**  
Wireless MAC Filters

### Wireless Security Settings

Network Name (SSID):  
4G\_AP\_B69E

Network Visibility Status:  
☒ Visible ☐ Invisible

Wireless Security:  
WPA2-PSK

Password:  
\*\*\*\*\*

☐ Unmask Password

WPA Cipher:  
AES (Stronger)

Save

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## Wireless MAC filtering

Provides whitelist and blacklist modes for filtering based on wireless MAC address, and lists can be added and deleted.

Welcome  
Quick Setup | Help | Log Out

Dashboard | Internet | Home Network | SMS | **Wireless** | Router

Wireless Settings  
Wireless Security Settings  
**Wireless MAC Filters**

Wireless MAC Filters ?

MAC Filters:  
☒ Enabled ☐ Disabled

Mode Settings:  
☐ Allow ☒ Deny

Save

Deny List

Wireless Client MAC Address	
No entries found.	

Add

**Add MAC Filter** [X]

MAC Address:  .  .  .  .  .

Add Cancel

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## Router management

### User Management

Username and password can be changed.

Welcome  
Quick Setup | Help | Log Out

DashboardInternetHome NetworkSMSSMSWirelessRouter

User ManagementConfiguration ManagementSoftware UpgradeReboot RouterTime SettingACS Management

User Management

Router Username:  
admin

Router Password:  
\*\*\*\*\*

Save

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## Configuration management

Can be used to restore factory settings .

Welcome  
Quick Setup | Help | Log Out

DashboardInternetHome NetworkSMSSMSWirelessRouter

User ManagementConfiguration ManagementSoftware UpgradeReboot RouterTime SettingACS Management

Configuration Management

Restore Factory Settings

This option resets the router to the factory defaults. The existing settings will be lost.

Restore Factory Settings

Please choose configuration file(\*.bin) to update.  
Please make sure you connect to MIFI using USB cable before upgrade.  
Device will reboot after update configuration file.

Browse

Update

Click below link to export configuration file.  
[Export configuration file.](#)

Save Acatlog to SD Settings  
SD Format:No SD Card

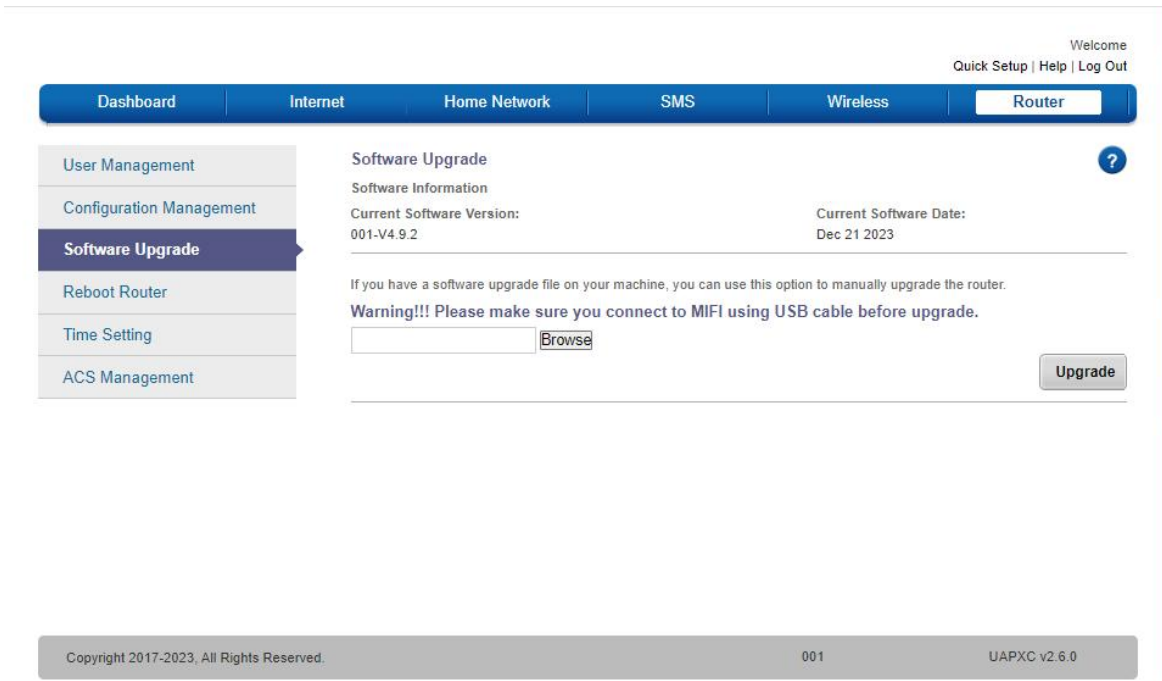
☐ This option will require user to set save acat dump log to SD card or not, This log is for debug usage.

Save

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## software upgrade

Software upgrade is mainly used to upgrade the software version of the device. (If you need to upgrade, please ask FAE to provide the software package)

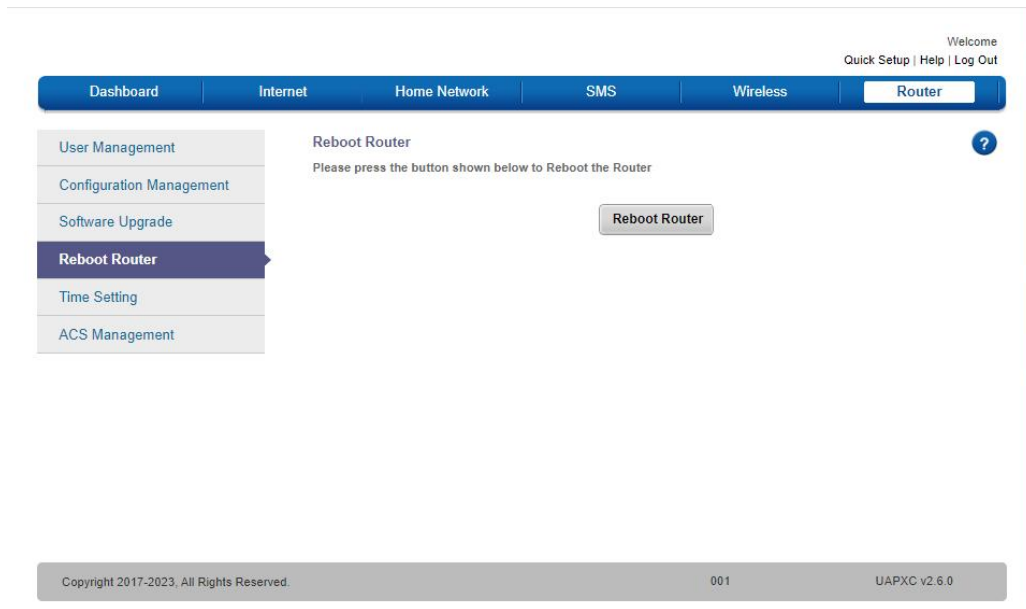


The screenshot displays the MovingComm router web interface. At the top right, it says "Welcome" with links for "Quick Setup", "Help", and "Log Out". A navigation bar contains tabs for "Dashboard", "Internet", "Home Network", "SMS", "Wireless", and "Router" (which is selected). On the left, a sidebar lists "User Management", "Configuration Management", "Software Upgrade" (highlighted), "Reboot Router", "Time Setting", and "ACS Management". The main content area is titled "Software Upgrade" with a help icon. Under "Software Information", it shows "Current Software Version: 001-V4.9.2" and "Current Software Date: Dec 21 2023". A note states: "If you have a software upgrade file on your machine, you can use this option to manually upgrade the router." Below this is a warning: "Warning!!! Please make sure you connect to MIFI using USB cable before upgrade." There is a text input field followed by a "Browse" button. An "Upgrade" button is located at the bottom right of the main content area. The footer contains "Copyright 2017-2023, All Rights Reserved.", "001", and "UAPXC v2.6.0".

## Restart the router

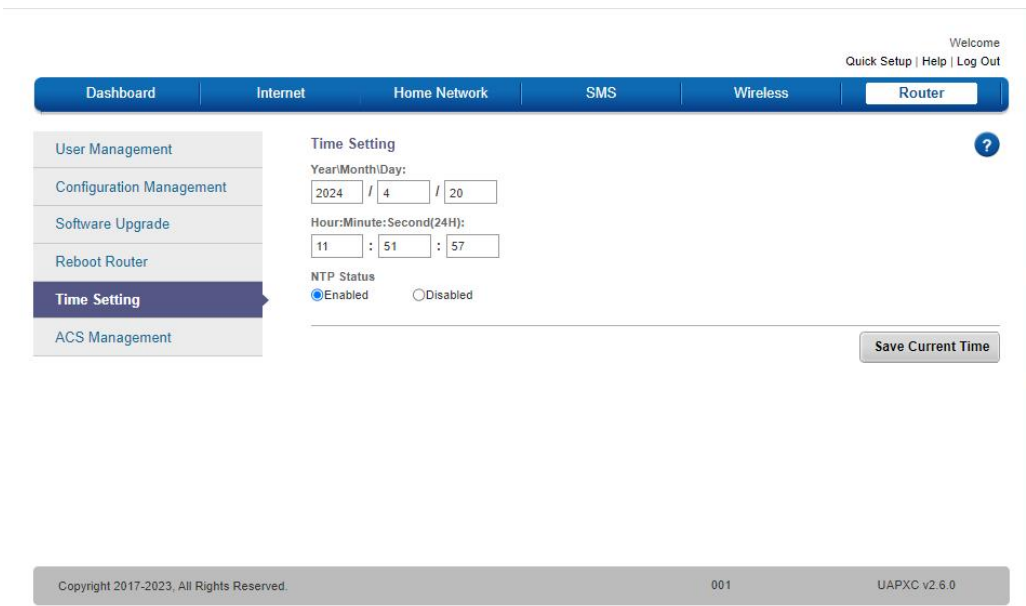
Restart the device. There are some items in the page settings that require restarting the device to take effect. If it cannot be used after setting, it is recommended to restart the device here.





## time setting

You can set the system time manually or set the system to automatically synchronize network time.



## ACS management

Provides a remote management server setting interface for wireless routers .

Welcome  
[Quick Setup](#) | [Help](#) | [Log Out](#)

Dashboard
Internet
Home Network
SMS
Wireless
Router

User Management

Configuration Management

Software Upgrade

Reboot Router

Time Setting

ACS Management

### ACS Management ?

ACS State

ACS URL:

Username:

Password:

Period inform

Period inform interval

Connection request name

Connection request password

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001
UAPXC v2.6.0

## Common faults and analysis

Fault	Cause Analysis
light is not on	Check whether the power interface and power supply equipment are normal
Can't open UI interface	Check whether the network port or USB is normal.  Have you entered the gateway address normally or changed the gateway address yourself?  Clear browser cookies
UI shows no network	Check that the device is in normal network mode.  Check whether the tariff card is normal
The end device cannot connect to the device via WiFi	Confirm that the WiFi password is correct.  Confirm that the WiFi function is turned on normally and that the WiFi hotspot is not hidden.  Confirm that the connected device is not in the blacklist.

## Connector pin definition

Pin number	Pin name	Function description
1	GND	land
2	RX	Serial port data reception
3	Tx	Serial data sending
4	3V3	Level 3.3V
5	FACT	factory reset
6	NRST	Module reset
7	WIFI_LED	WIFI indicator light
8	LAN_LED	LAN indicator
9	DC_IN	External DC power supply 5-12V
10	GND	land
11	USB_VBUS	USB detection
12	USB_DM	USB negative
13	USB_DP	USB positive
14	GND	land
15	LAN_TX+	Ethernet port is sending data
16	LAN_TX-	Ethernet port negative data sending
17	LAN_RX+	Ethernet port positive data reception
18	LAN_RX-	Ethernet port negative data reception

Want to know more about Shenzhen Movingcomm Technology' s products, Please visit our website [www.movingcomm.com](http://www.movingcomm.com)

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