UCY-I210

Industrial Grade 4G Wireless Router

User Manual

Cellular Signal
RST
NET WLAN POW
SIM Card
RXD/485B
TXD/485A
GND
VIN-
VIN+
DC 9~36V

- Based on High Performance 32bit MIPS processor and Industrial Communication Module
- Support VPN Client
- Wide Voltage Input Design 6 ~ 36V
- Industrial Casing Design, Quick Installation & Quick Use
- Rich Industrial Application Interface, Built-in ESD Protection
- Support 4G Cat1 or 4G Cat4 modem Solution.

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Product Description

In the world of the internet of things, everything is interconnected. The demand for intelligent communication will become higher and higher, especially in the field of intelligent industrial control. The UCY I210 4G industrial router is a new generation of 4G wireless router launched by Shenzhen Jiawen Technology Co., Ltd. for the industrial field. The device provides fast Internet access with the explosive growth of 4G cellular data network and a variety of wired high-speed broadband access services.

In addition, UCY I210 provides single 10/100Mbps RJ45 LAN network port, a set of industrial phoenix terminals (serial pot RS232 or RS485), and a drawer SIM/UIM card slot. It can have the serial port, Ethernet port, and WIFI connected and working at the same time, providing pass-through data transmission.

UCY I210 supports remote management via the cloud management platform. It has a simple graphical interface, is convenient and quick to use. It lets you know the current status of equipment anytime, anywhere, widely used in M2M industries and the Internet of Things, such as smart grid, smart transportation, smart home, finance, Mobile POS terminal, supply chain automation, industrial automation, intelligent building, fire protection, public safety, environmental protection, meteorology, digital medical treatment, telemetry, military, space exploration, agriculture, forestry, water, coal mine, petrochemical, and other fields.

Features

Ruggedized Industrial Design

UCY I210 is based on MTK 32-bit MIPS chipset solution in the product design. It has built in 64MB system memory and supports WIFI 2.4GHz 802.11n protocol and provides a maximum rate of up to 150Mbps (Single Antenna). In addition, the product adopts the metal casing to provide industrial isolation protection, which is especially suitable for industrial control field applications. The wide voltage input design is 6~36VDC, the standard 12VDC power input, and the built-in power reverse protection.

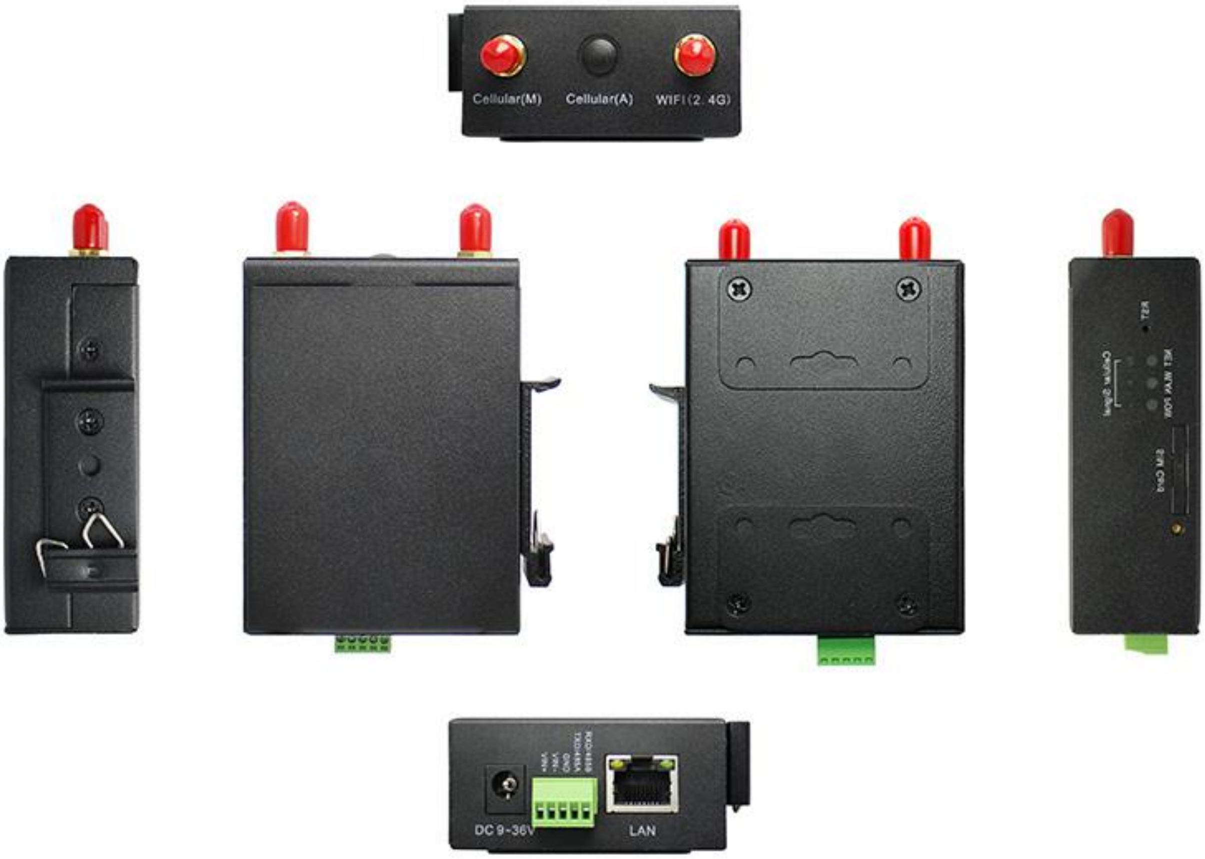
Stability and Robustness

UCY I210 adopts dual watchdog design to ensure system stability and support long-term stable operation. Cellular communication adopts a complete anti-drop mechanism to ensure that data communication terminals are always online. At the same time, it provides comprehensive interface protection functions and supports built-in 1.5 KV electromagnetic isolation protection, SIM/USIM interface built-in 1.5KV ESD protection, power interface built-in reverse protection and overvoltage protection, antenna interface lightning protection (optional).

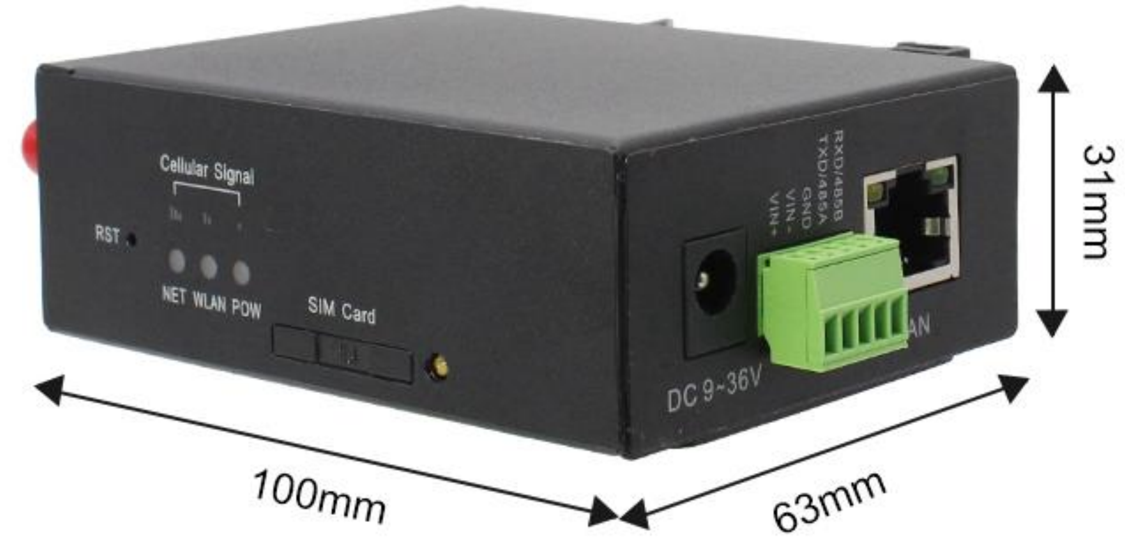
User Friendliness

UCY I210 provides standard RS232/RS485, Ethernet and WIFI interfaces, which can directly connect serial devices, Ethernet devices and WIFI devices. The standard wired WAN port supports PPPoE protocol and can be directly connected to ADSL equipment. The device can perform as an intelligent data terminal, which can enter the data transmission state when it is powered on. It supports a powerful cloud management platform, which is convenient for multi-device management (optional). It is easy to use and flexible. It supports multiple working modes and is convenient for system configuration. and maintenance (including local, remote web, and cloud platform management).

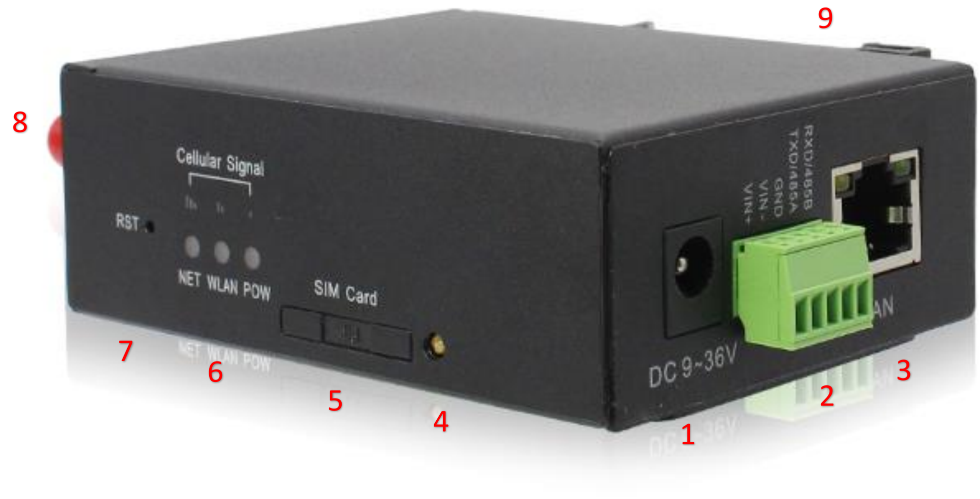
Product Views



Product Size and Dimension


Cellular Signal
RST
NET
WLAN
POW
SIM Card
RXD/485B
TXD/485A
GND
VIN-
VIN+
DC 9~36V
31mm
100mm
63mm

Interfaces and Indicators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8
Cellular Signal
RST
NET WLAN POW
SIM Card
RXD/485B
TXD/485A
GND
VIN-
VIN+
DC 9~36V
7
6
5
4
1
2
3

1. 12V DC Power Input (Wide Voltage Input Range 6-36V)
2. Industrial Phoenix terminal (2.54mm Pitch)
3. RJ45 (LAN interface)
4. SIM card Slot (Drawer Type, the button is to be pressed to open)
5. SIM card Slot (Drawer Type)
6. LED indicators
7. Reset button (Press for 1 second to restart, long press for 5 seconds to restore factory settings)
8. SMA/RP-SMA Antenna Connector (1 x 4G Main, 1 x 4G Auxiliary (Reserved), 1 x WIFI)
9. Din-Rail Mounting Bracket

LED Description

LED type	State	Description
PWR	Long bright	Normal power input
	No Light	Abnormal power input
WLAN	Long bright	WIFI On
	No Light	WIFI Off
	Blinking Light	Data In/Out
LAN	Long bright	Cable Connected
	No Light	Cable Not Connected
	Blinking Light	Data In/Out
NET	Long bright	Internet Connected
	No Light	Internet Network Disconnected
Signal	1 Bar	Signal Fair
	2 Bar	Signal Good
	3 Bar	Signal Excellent

Phoenix Terminal Block Pin Definition

Pin	Definition	Description
RXD/B485B	Serial Port	RS232 or RS485 (Depend on Model)
TXD/485A	Serial Port	RS232 or RS485 (Depend on Model)
GND	Data Ground	RS232 has common ground, RS485 does not need to be connected
VIN-	Power Ground	Power Ground
VIN+	Power Supply	DC 6~36V Input

Quick Start

Mounting Accessories

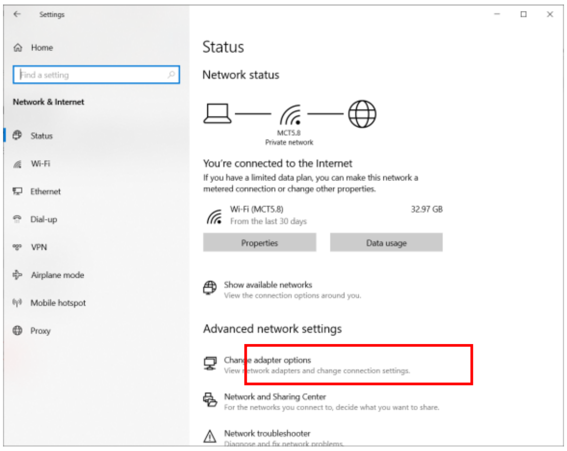
Put the WIFI antenna, 4G antenna, and SIM card into the designated position according to the interface, connect to the 6-36V DC power supply, observe the indicator light, after the sys light flashes, the router starts normally.

RST
NET WLAN POW
Cellular Signal
SIM Card

Note: Please do not remove or insert the SIM card with power on, otherwise the SIM card may be damaged.

Connect to the Internet

Correctly set your computer network configuration, now take win10 operating system as an example, use it to open "Settings\Network & Internet\Change Adapter Options" in Control Panel. Double-click the "Ethernet" connection icon.


Settings
Home
Find a setting
Network & Internet
Status
Wi-Fi
Ethernet
Dial-up
VPN
Airplane mode
Mobile hotspot
Proxy
Status
Network status
MCT5.8
Private network
Properties
Data usage
Show available networks
Advanced network settings
Change adapter options
Network and Sharing Center
Network troubleshooter

You're connected to the Internet

If you have a limited data plan, you can make this network a metered connection or change other properties.

Wi-Fi (MCT5.8) 32.97 GB

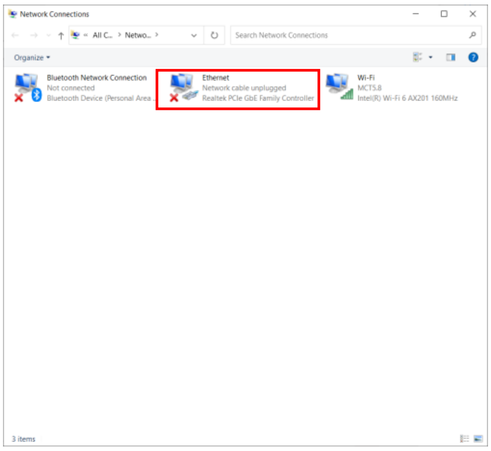
From the last 30 days

View the connection options around you.

View network adapters and change connection settings.

For the networks you connect to, decide what you want to share.

Diagnose and fix network problems.

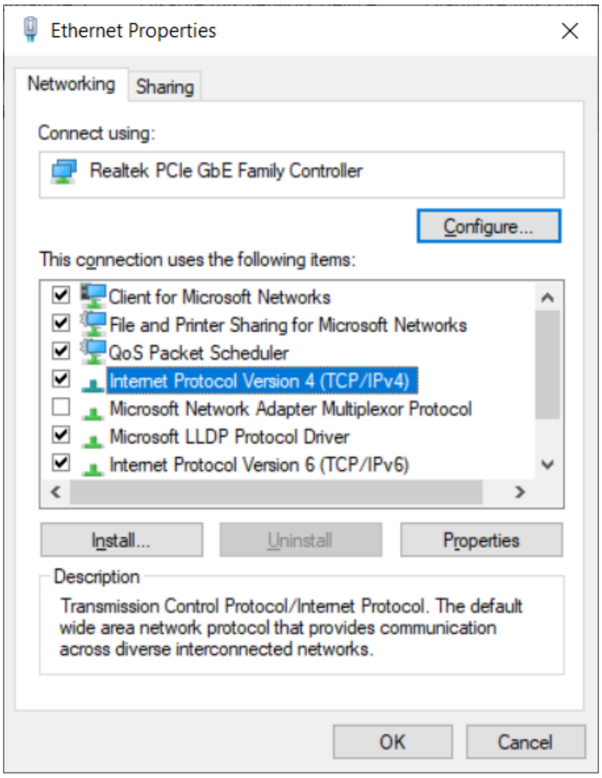

Network Connections
All C...
Netwo...
Search Network Connections
Organize
3 items

Bluetooth Network Connection
Not connected
Bluetooth Device (Personal Area ...

Ethernet
Network cable unplugged
Realtek PCIe GbE Family Controller

Wi-Fi
MCT5.8
Intel(R) Wi-Fi 6 AX201 160MHz

In the pop-up dialog box, click "Properties", select "Internet Protocol Version 4 (TCP/IPv4)", and then click the "Properties" button; select “Obtain an IP address automatically”. After clicking OK to save, the computer will automatically obtain the IP address assigned by the router.



Ethernet Properties

Networking | Sharing

Connect using:

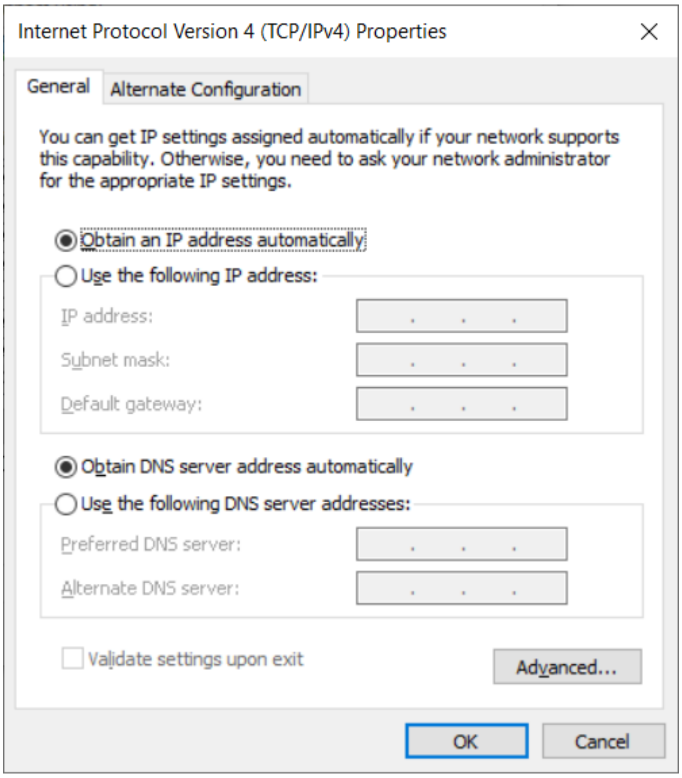
Realtek PCIe GbE Family Controller

This connection uses the following items:

- ☑ Client for Microsoft Networks
- ☑ File and Printer Sharing for Microsoft Networks
- ☑ QoS Packet Scheduler
- ☑ Internet Protocol Version 4 (TCP/IPv4)
- ☐ Microsoft Network Adapter Multiplexor Protocol
- ☑ Microsoft LLDP Protocol Driver
- ☑ Internet Protocol Version 6 (TCP/IPv6)

Description

Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.



Internet Protocol Version 4 (TCP/IPv4) Properties

General | Alternate Configuration

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

● Obtain an IP address automatically

○ Use the following IP address:

IP address: . . .

Subnet mask: . . .

Default gateway: . . .

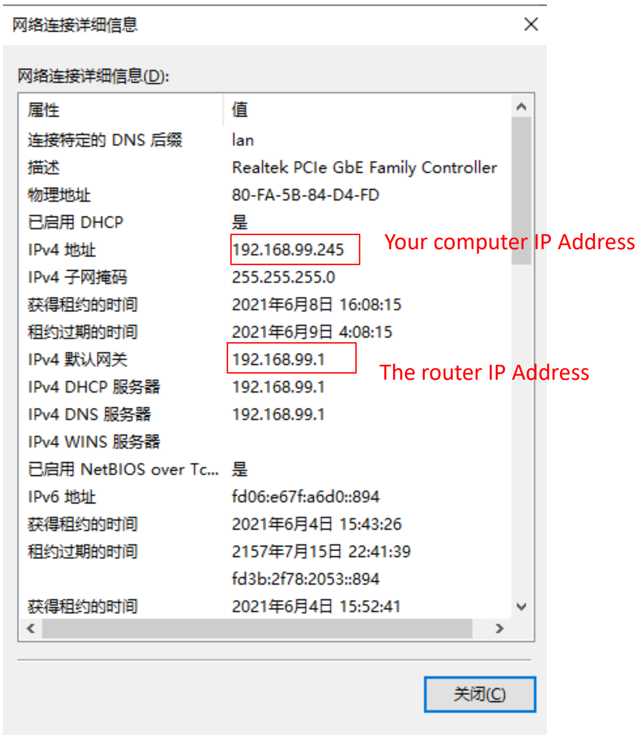
● Obtain DNS server address automatically

○ Use the following DNS server addresses:

Preferred DNS server: . . .

Alternate DNS server: . . .

☐ Validate settings upon exit



网络连接详细信息

网络连接详细信息(D):

属性	值
连接特定的 DNS 后缀	lan
描述	Realtek PCIe GbE Family Controller
物理地址	80-FA-5B-84-D4-FD
已启用 DHCP	是
IPv4 地址	192.168.99.245
IPv4 子网掩码	255.255.255.0
获得租约的时间	2021年6月8日 16:08:15
租约过期的时间	2021年6月9日 4:08:15
IPv4 默认网关	192.168.99.1
IPv4 DHCP 服务器	192.168.99.1
IPv4 DNS 服务器	192.168.99.1
IPv4 WINS 服务器	
已启用 NetBIOS over Tc...	是
IPv6 地址	fd06:e67f:a6d0::894
获得租约的时间	2021年6月4日 15:43:26
租约过期的时间	2157年7月15日 22:41:39
	fd3b:2f78:2053::894
获得租约的时间	2021年6月4日 15:52:41

Your computer IP Address

The router IP Address

Login to the router

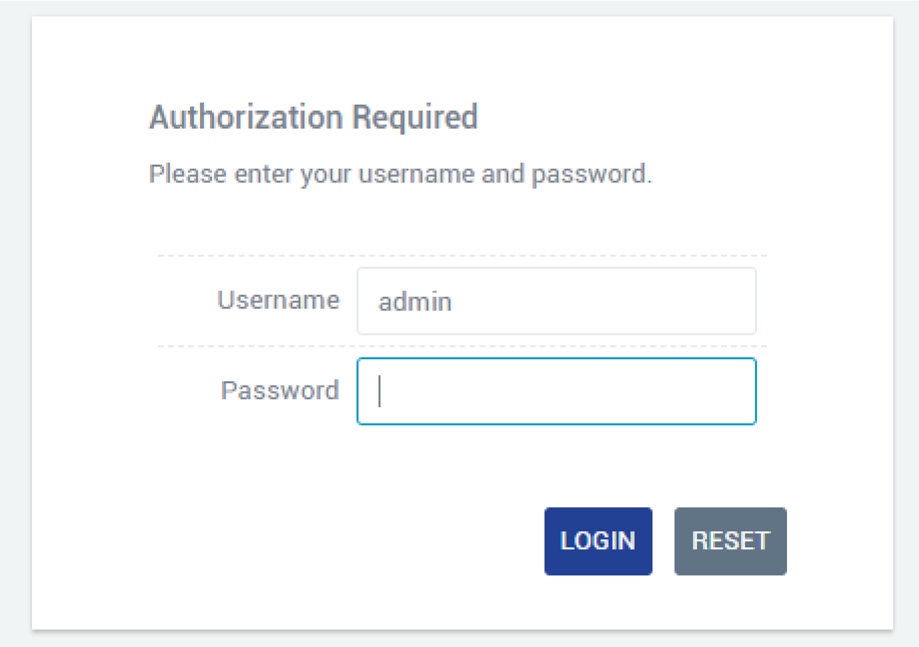
WebUI Login

Open a web browser, key in http://192.168.99.1 in the address bar and press Enter;

Default Username: admin

Default Password: admin

It is recommended to use Google Chrome or Mozilla Firefox browser.



Authorization Required

Please enter your username and password.

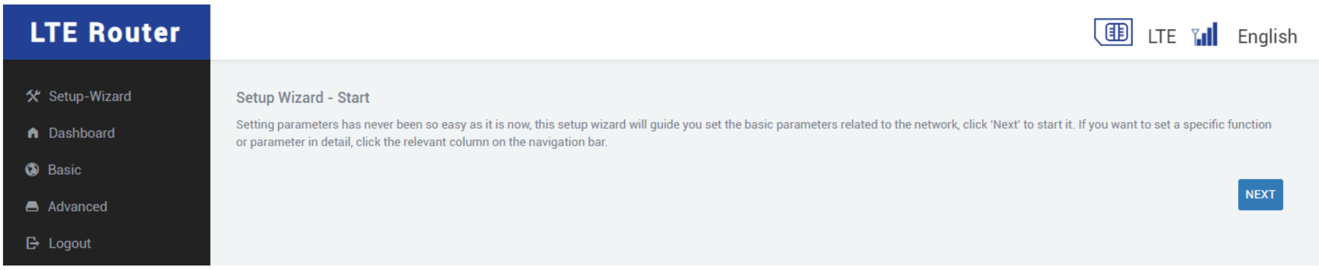
Username: admin

Password:

Note: For the first time, after the login page will see the setup wizard page. You can configure the router directly according to the setup wizard.

Setup Wizard

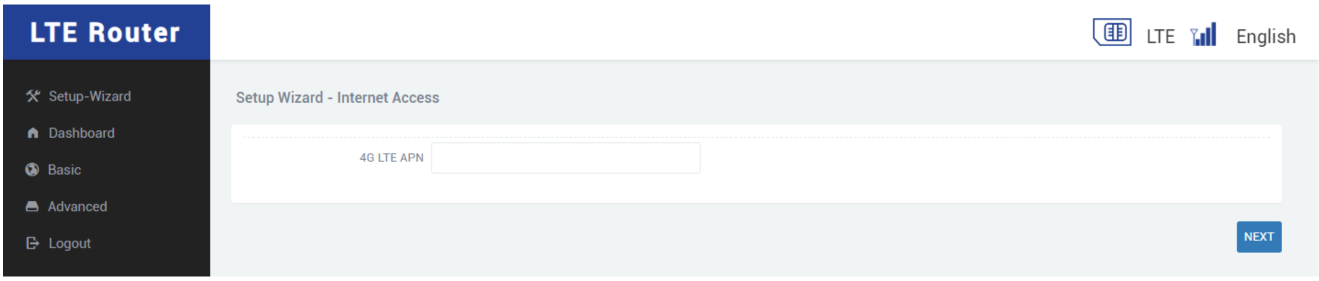
For the first time, after the login page will see the setup wizard page. You can configure the router directly according to the setup wizard.



Setup Wizard - Start

Setting parameters has never been so easy as it is now, this setup wizard will guide you set the basic parameters related to the network, click 'Next' to start it. If you want to set a specific function or parameter in detail, click the relevant column on the navigation bar.

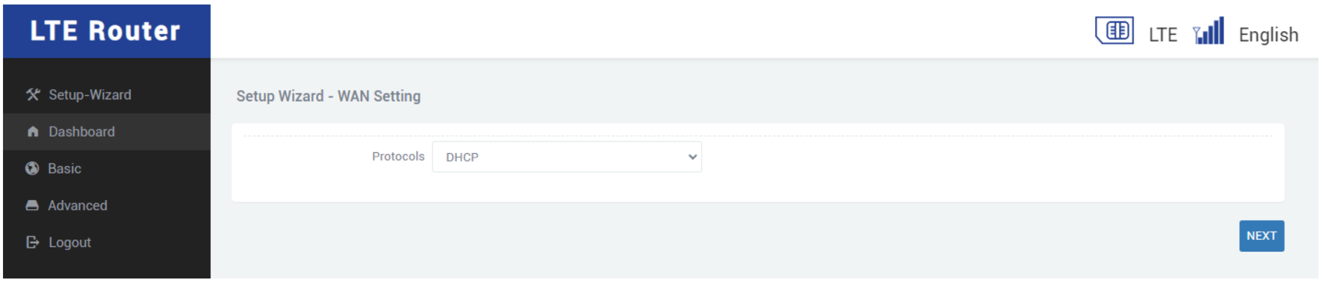
Click Next to enter Quick Configuration - Mobile Network APN Settings, this page can set the APN.


LTE Router
LTE
English
Setup-Wizard
Dashboard
Basic
Advanced
Logout
NEXT

Setup Wizard - Internet Access

4G LTE APN

Click Next to enter the Quick Configuration - Wired WAN Configuration interface.


LTE Router
LTE
English
Setup-Wizard
Dashboard
Basic
Advanced
Logout
NEXT

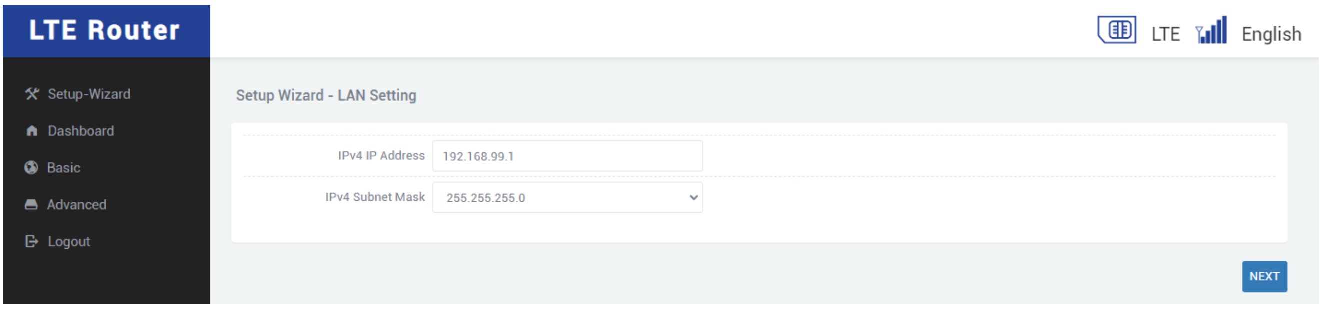
Setup Wizard - WAN Setting

Protocols: DHCP

Configure WAN - description of the connection method:

WAN Setting	**Description**	**How to Set**
DHCP	When connected. Automatically obtain the IP address and subnet mask assigned by the server	No configuration
PPPoE	The router is connected to the optical fiber/Cable, and the account and password provided by the operator are used to dial up the Internet	Setup access username and password
STATIC	Manually assign IP address and subnet mask	Setup IP address, Subnet Mask, Gateway, and DNS.

Click Next to enter the Quick Configuration - Local Address Configuration interface, where you can modify the local IP address and subnet mask.



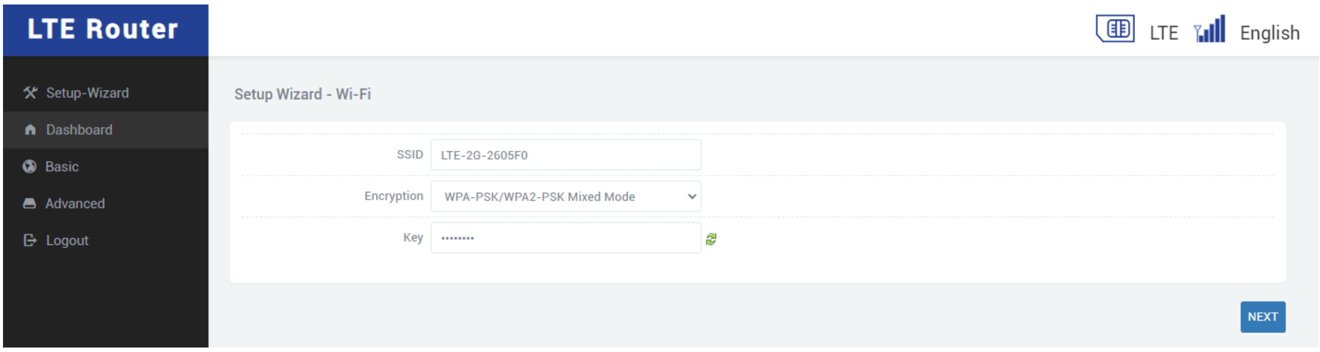
LTE Router
LTE
English
Setup-Wizard
Dashboard
Basic
Advanced
Logout
NEXT

Setup Wizard - LAN Setting

IPv4 IP Address: 192.168.99.1

IPv4 Subnet Mask: 255.255.255.0

Click Next to enter the quick configuration-WI-FI configuration interface.



LTE Router
LTE
English
Setup-Wizard
Dashboard
Basic
Advanced
Logout
NEXT

Setup Wizard - Wi-Fi

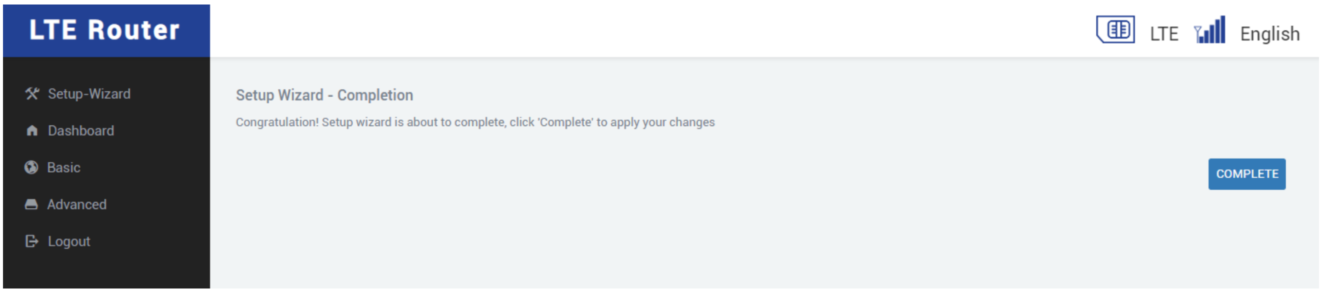
SSID: LTE-2G-2605F0

Encryption: WPA-PSK/WPA2-PSK Mixed Mode

Key: ••••••••

WIFI Setting	**Description**	**How to Set**
WIFI Name	WIFI SSID Name	You can fill in any name you like
Encryption	WIFI Encryption Method	Click the drop-down box, there are 4 encryption methods for you to choose, of which None means no encryption, any client can directly connect to the WIFI
Password	Other than None option, a password is required for WIFI encryption methods	You can fill in a password of 8~64 digits

Click Next to enter the Quick Configuration-Complete interface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LTE
English
Setup-Wizard
Dashboard
Basic
Advanced
Logout
COMPLETE

Setup Wizard - Completion

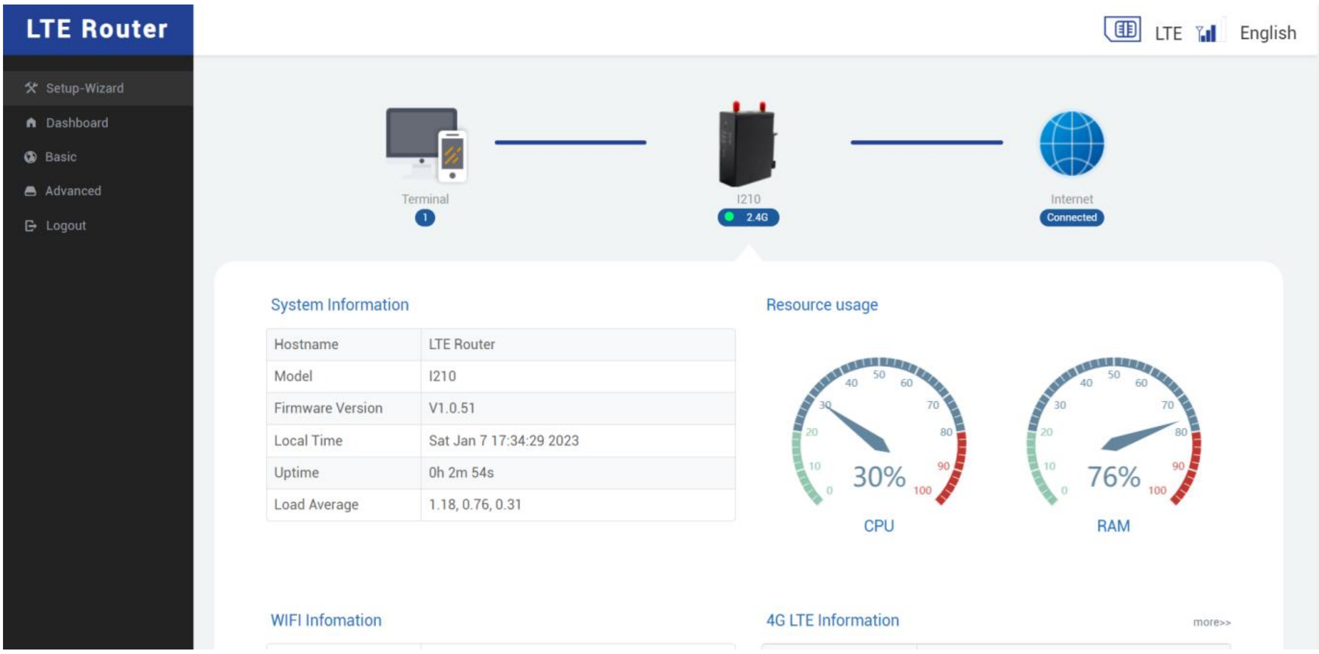
Congratulation! Setup wizard is about to complete, click 'Complete' to apply your changes

Click Finish and Configure to complete and apply.

Function introduction

Device Status – Dashboard

Through the status page (Dashboard), you can see the router's version number, 4G information, Wi-Fi information, network connection and other basic information.


LTE Router
LTE
English
Setup-Wizard
Dashboard
Basic
Advanced
Logout
Terminal
1
I210
2.4G
Internet
Connected
0
10
20
30
40
50
60
70
80
90
100
30%
CPU
76%
RAM
more>>

System Information

Hostname	LTE Router
Model	I210
Firmware Version	V1.0.51
Local Time	Sat Jan 7 17:34:29 2023
Uptime	0h 2m 54s
Load Average	1.18, 0.76, 0.31

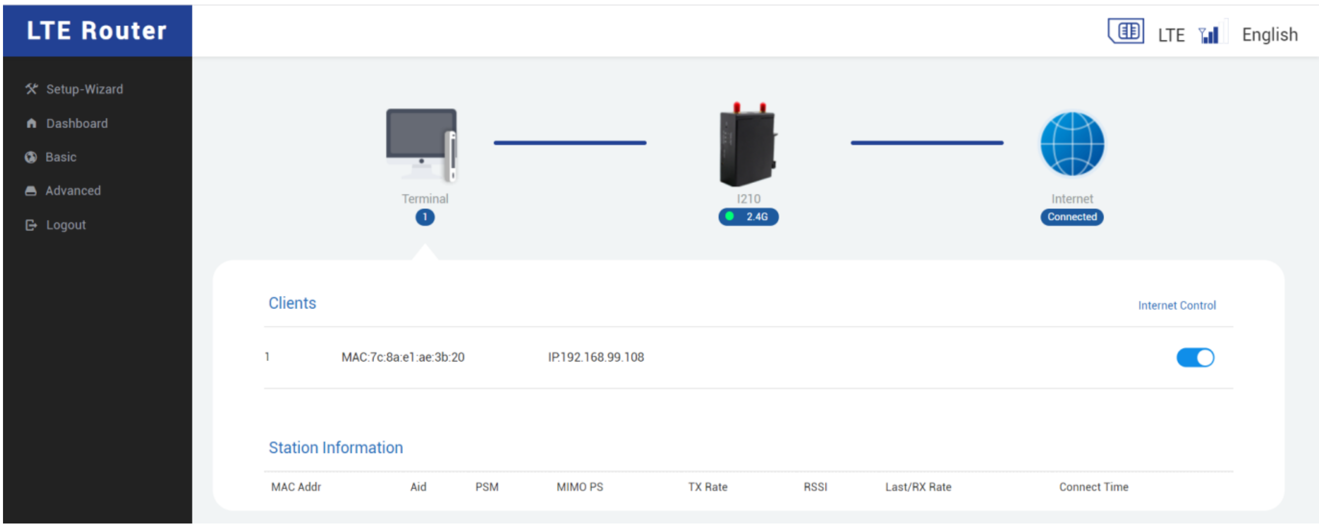
Resource usage

WIFI Infomation

4G LTE Information

Device Status – User Connection

By clicking the computer icon on the upper left, you can enter the user management page, where you can view the user's connection status and manage the user's Internet access.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English
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Basic
Advanced
Logout
Terminal
1
I210
2.4G
Internet
Connected

Clients

Internet Control

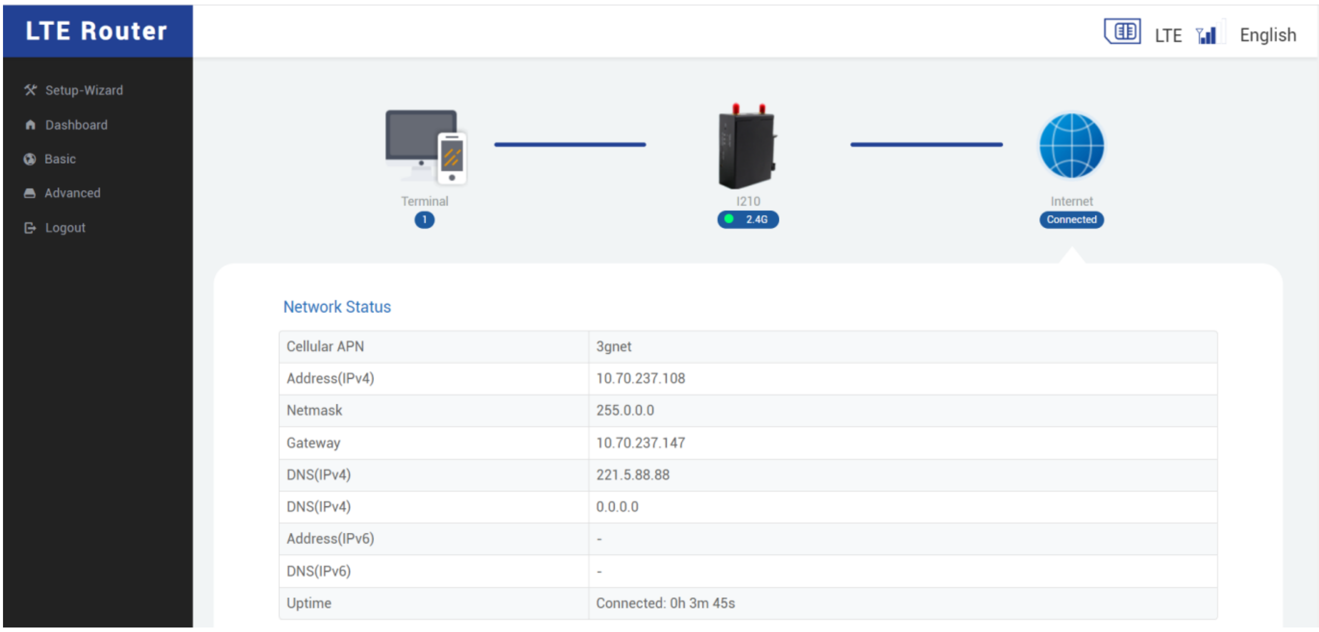
1 MAC:7c:8a:e1:ae:3b:20 IP.192.168.99.108

Station Information

MAC Addr	Aid	PSM	MIMO PS	TX Rate	RSSI	Last/RX Rate	Connect Time

Device Status – Internet Connection

By clicking the globe icon on the upper right, you can enter the page to view the dial-up, relay, and network connections.


LTE Router
LTE
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Setup-Wizard
Dashboard
Basic
Advanced
Logout
Terminal
1
I210
2.4G
Internet
Connected

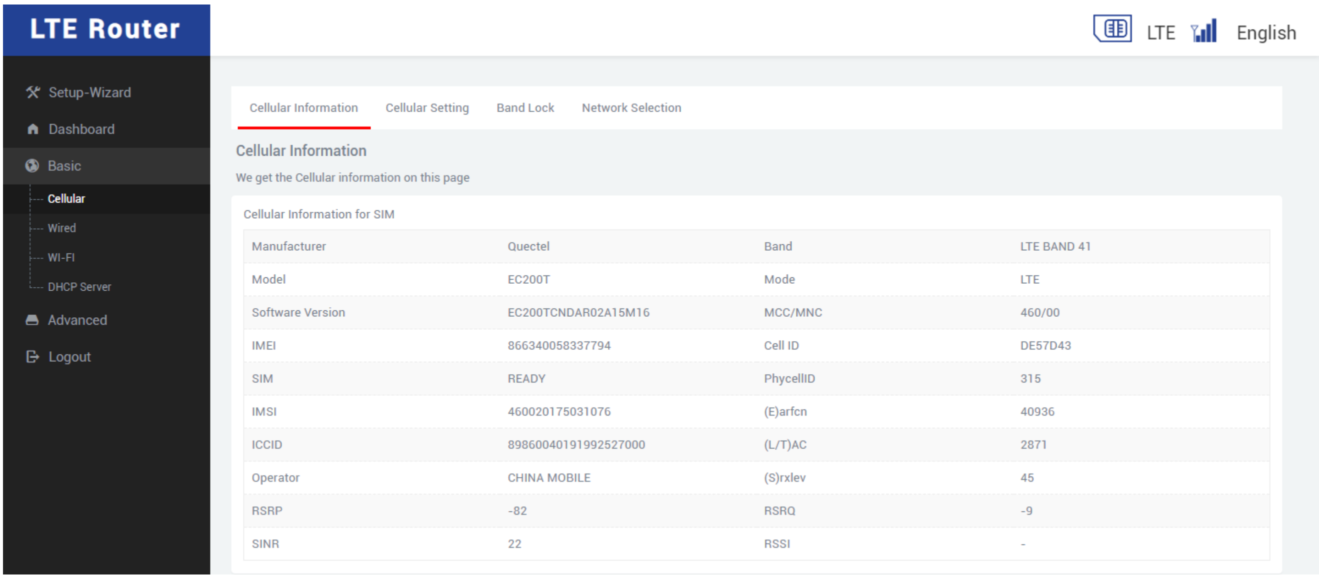
Network Status

Cellular APN	3gnet
Address(IPv4)	10.70.237.108
Netmask	255.0.0.0
Gateway	10.70.237.147
DNS(IPv4)	221.5.88.88
DNS(IPv4)	0.0.0.0
Address(IPv6)	-
DNS(IPv6)	-
Uptime	Connected: 0h 3m 45s

Common Settings - Cellular Network

Cellular network contains information about mobile network and settings of mobile network.

Cellular – Cellular Information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Basic
Cellular
Wired
WI-FI
DHCP Server
Advanced
Logout
Cellular Information
Cellular Setting
Band Lock
Network Selection

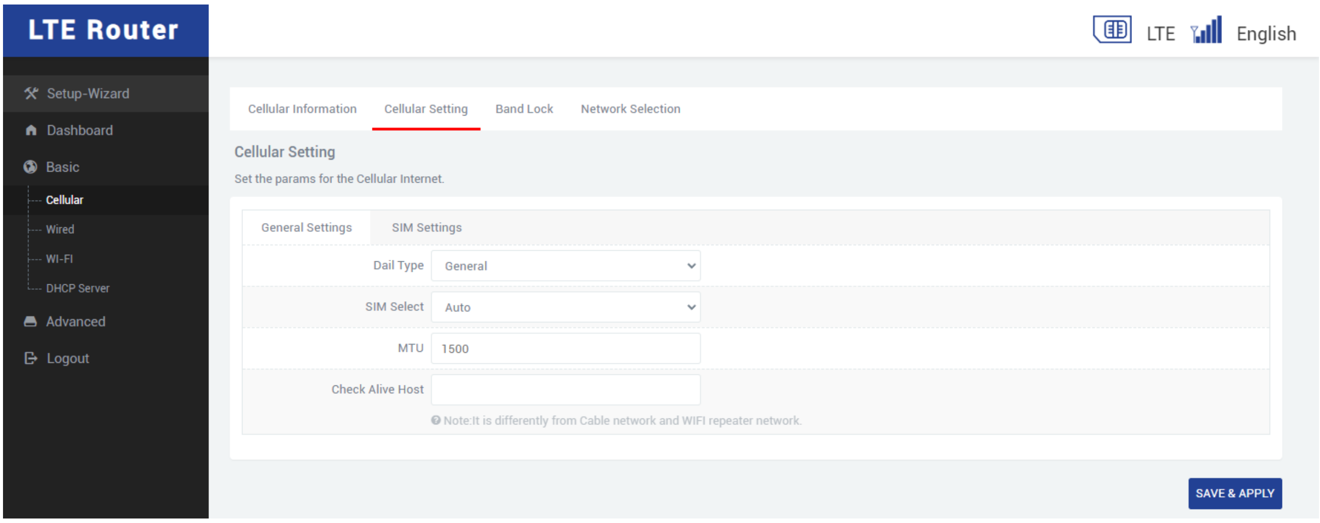
Cellular Information

We get the Cellular information on this page

Cellular Information for SIM

Manufacturer	Quectel	Band	LTE BAND 41
Model	EC200T	Mode	LTE
Software Version	EC200TCNDAR02A15M16	MCC/MNC	460/00
IMEI	866340058337794	Cell ID	DE57D43
SIM	READY	PhycellID	315
IMSI	460020175031076	(E)arfcn	40936
ICCID	89860040191992527000	(L/T)AC	2871
Operator	CHINA MOBILE	(S)rxlev	45
RSRP	-82	RSRQ	-9
SINR	22	RSSI	-

Cellular – Cellular Setting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Network Selection
General Settings
SIM Settings
SAVE & APPLY

Cellular Setting

Set the params for the Cellular Internet.

Dail Type: General

SIM Select: Auto

MTU: 1500

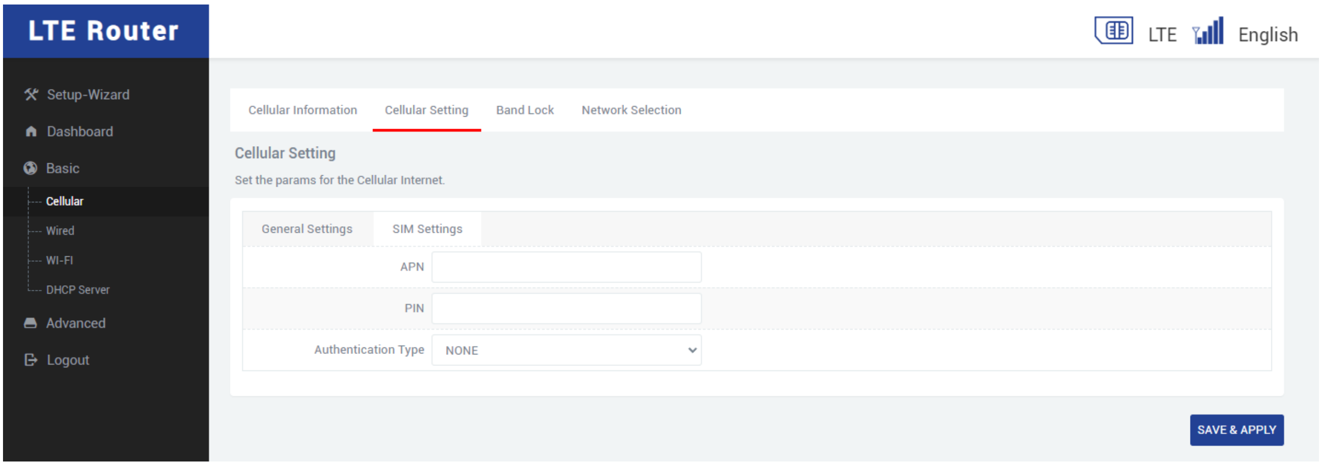
Check Alive Host:

Note:It is differently from Cable network and WIFI repeater network.

Configure mobile network - basic settings parameter description:

Cellular Setting	**Description**	**How to Set**
Dial Type	You can choose different dial-up methods to access the Internet	Click the drop-down box to select
SIM Select	Dual-card routers can choose which card to use for dial-up Internet access	I2100 Does not support Dual SIM Card, so only option is Auto
MTU	The maximum transmission unit is used to notify the other party of the maximum size of the data service unit that can be accepted.	
Check Alive Host	Fill in the destination address of the Ping packet to keep the cellular network online	Fill in the IP that can be pinged

Cellular – SIM Setting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SIM Settings
APN
PIN
SAVE & APPLY

Cellular Setting

Set the params for the Cellular Internet.

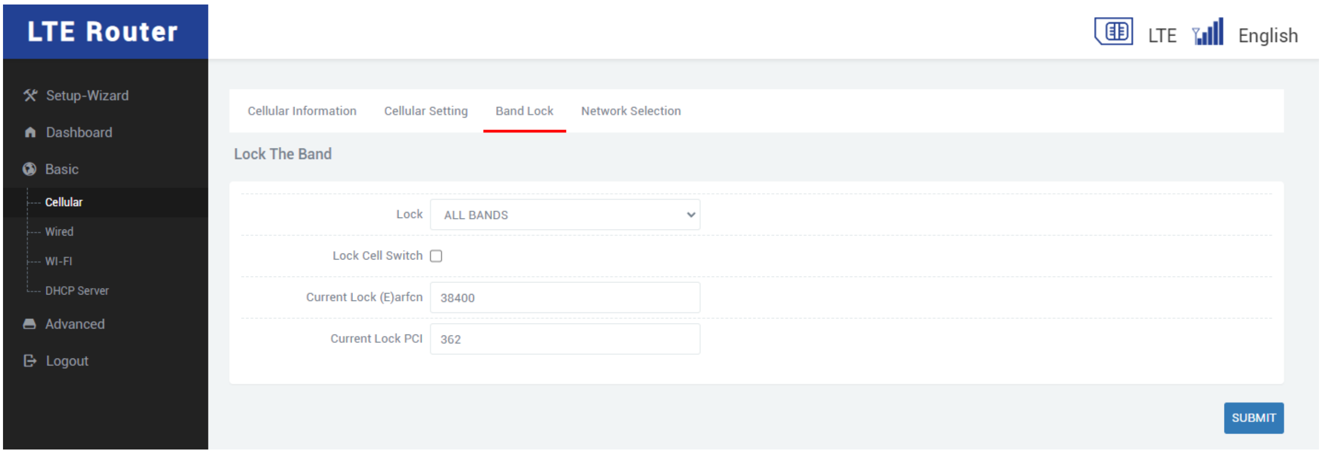
Authentication Type: NONE

Configure APN settings for the SIM card and the Cellular Network.

Cellular Setting	**Description**	**How to Set**
APN	Set APN (Access Point Name) of the gateway operator.	Fill in APN of the SIM card's service name.
PIN	Fill in SIM pin if any. Leave blank for no SIM pin.	Fill in SIM Pin if required
Authentication Type	Authentication method for the APN Configuration. None, PAP, CHAP. Default is None.	Click the drop-down box to select

Cellular – Band Lock

In this section, you can lock the cellular network module frequency band. After locking the frequency band, restart the router is required. The router will automatically dial and connect to the network of the selected frequency band.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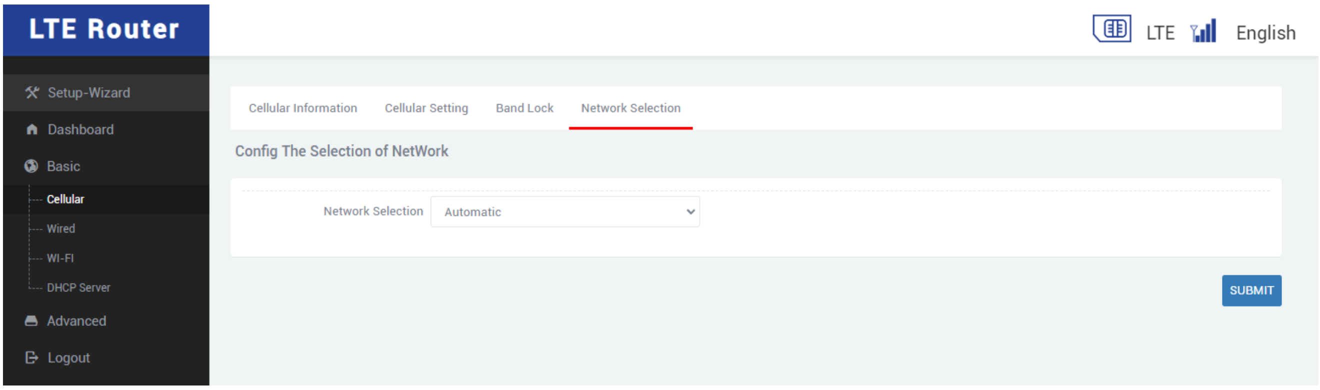
DHCP Server
Advanced
Logout
Cellular Information
Cellular Setting
Band Lock
Network Selection
SUBMIT

Lock The Band

Lock: ALL BANDS
Lock Cell Switch ☐
Current Lock (E)arfcn: 38400
Current Lock PCI: 362

Cellular – Network Selection

In this section, you can select the dialing method, such as Auto, GSM, WCDMA, LTE, etc.


LTE Router
LTE
English
Setup-Wizard
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Basic
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WI-FI
DHCP Server
Advanced
Logout
Cellular Information
Cellular Setting
Band Lock
Network Selection
SUBMIT

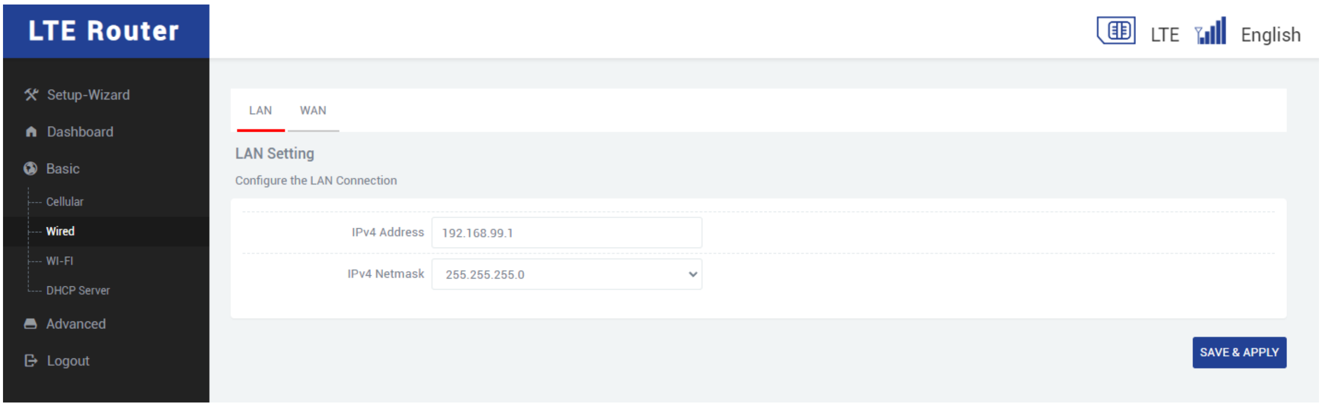
Config The Selection of NetWork

Network Selection: Automatic

Common Settings - Wired Network

The wired network can set the WAN port and LAN port of the router.

LAN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Wired
WI-FI
DHCP Server
Advanced
Logout
LAN
WAN
SAVE & APPLY

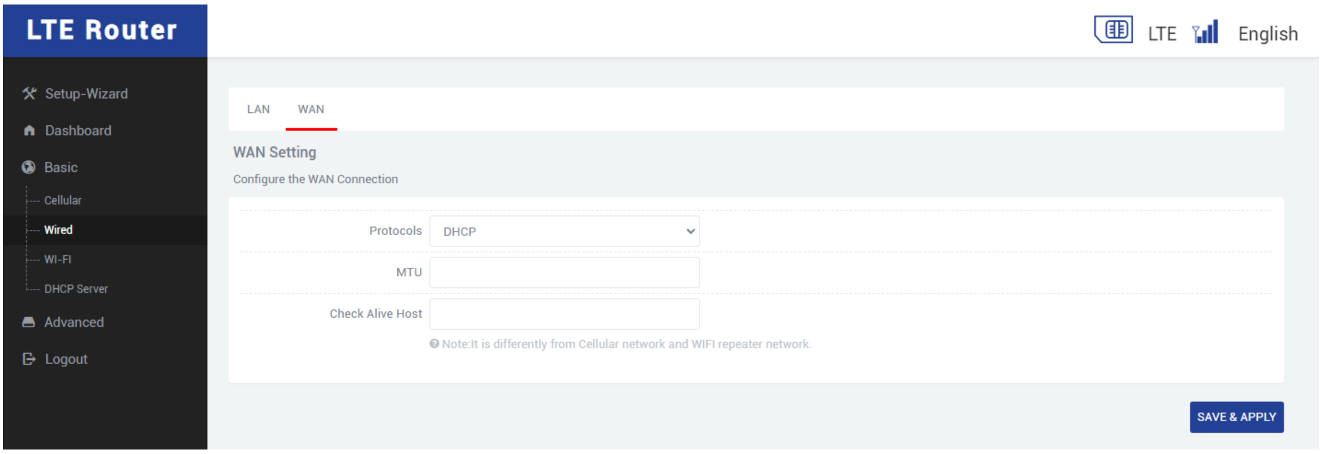
LAN Setting

Configure the LAN Connection

IPv4 Address: 192.168.99.1

IPv4 Netmask: 255.255.255.0

WAN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WAN Setting

Configure the WAN Connection

Protocols: DHCP

MTU:

Check Alive Host:

Note:It is differently from Cellular network and WIFI repeater network.

Configure wired WAN network - basic settings parameter description:

WAN Setting	Description	How to Set
Protocols	You can choose different dial-up methods to access the Internet	Click the drop-down box to select

MTU	The maximum transmission unit is used to notify the other party of the maximum size of the data service unit that can be accepted.	Leave Blank by Default
Check Alive Host	Fill in the destination address of the Ping packet to keep the cellular network online	Fill in the IP that can be pinged

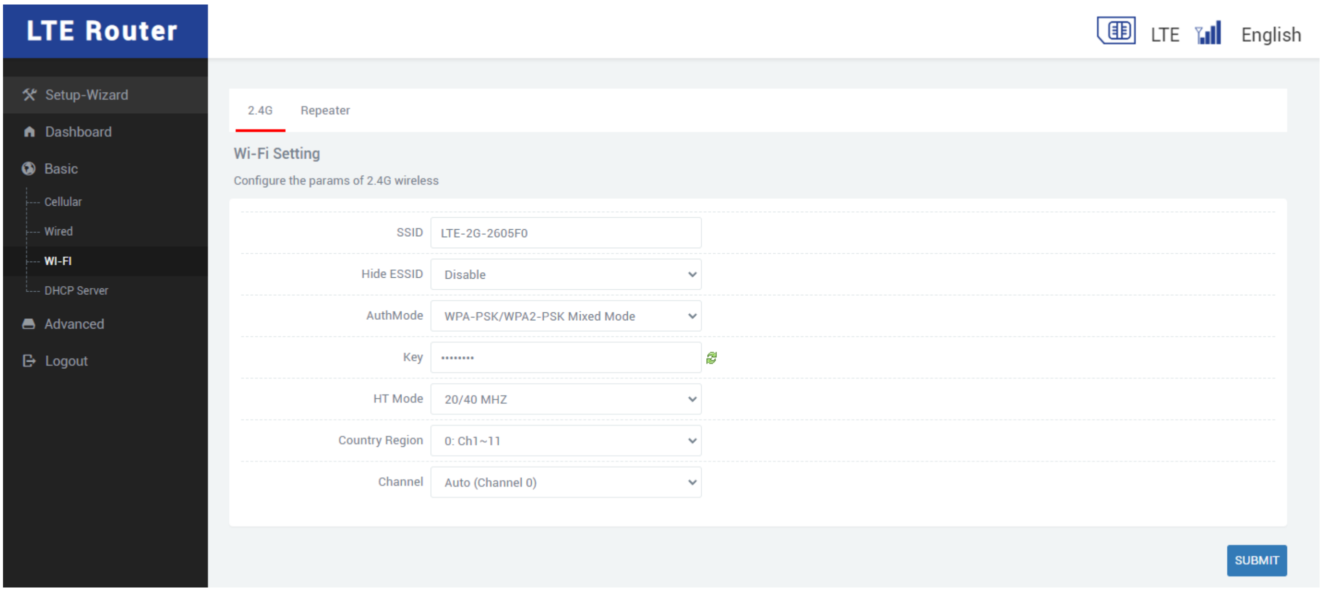
Configure wired WAN network - description of the connection methods (Protocols):

WAN Protocol Option	**Description**	**How to Set**
DHCP	When connected. Automatically obtain the IP address and subnet mask assigned by the server	No configuration
PPPoE	The router is connected to the optical fiber/Cable, and the account and password provided by the operator are used to dial up the Internet	Setup access username and password
STATIC	Manually assign IP address and subnet mask	Setup IP address, Subnet Mask, Gateway, and DNS.

Common Settings – Wireless

Wireless network can set WIFI name, encryption, channel and other common parameters. Also, WIFI can be setup as a WIFI relay for the router.

2.4GHz WIFI Setting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2.4G
Repeater
SUBMIT

Wi-Fi Setting

Configure the params of 2.4G wireless

SSID: LTE-2G-2605F0
Hide ESSID: Disable
AuthMode: WPA-PSK/WPA2-PSK Mixed Mode
Key: ••••••••
HT Mode: 20/40 MHZ
Country Region: 0: Ch1~11
Channel: Auto (Channel 0)

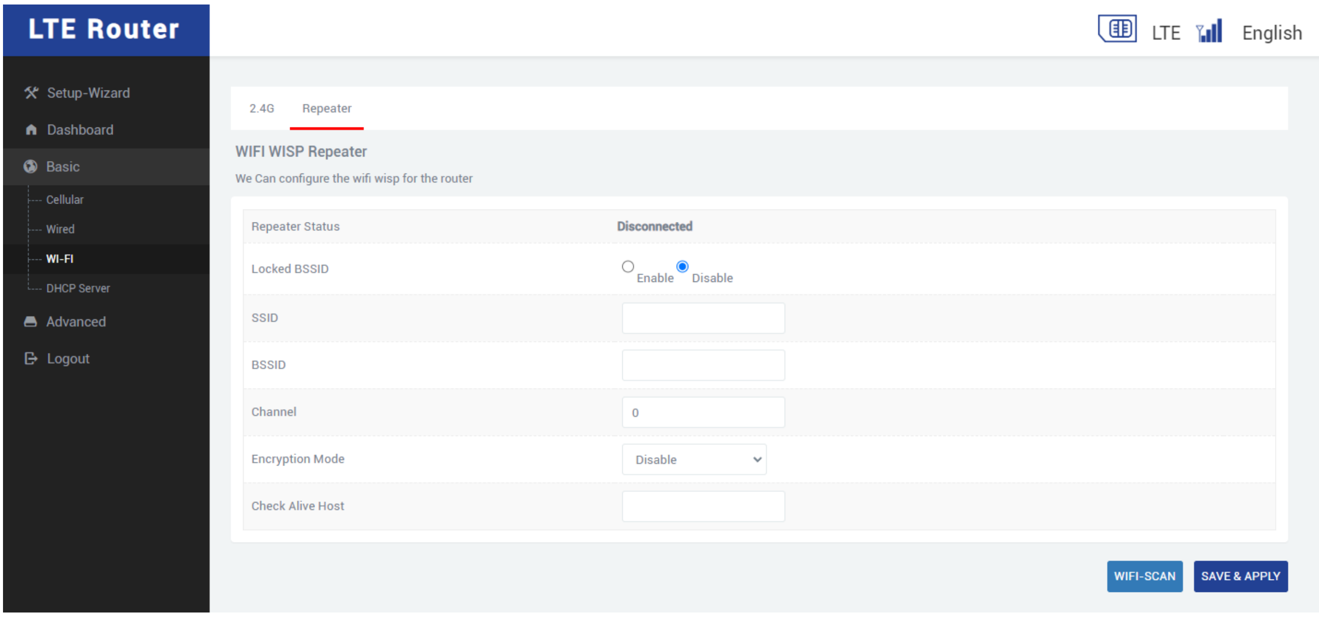
Configure Wireless network (WIFI) - basic settings parameter description:

WIFI Setting	**Description**	**How to Set**
SSID	WIFI Name, WIFI SSID	You can fill in any name you like
Hide Name	Make SSID invisible to users	Click the drop-down box to select Disable or Enable. Disable by Default
AuthMode	WIFI Encryption Method	Click the drop-down box, there are 4 encryption methods for you to choose, of which None means no encryption, any client can directly connect to the WIFI

Key	Other than None encryption, a password is required to connect to this WIFI	You can fill in a password of 8~64 digits
HT Mode	The amount of data that can be transferred at a fixed time	Click the drop-down box to select
Country Region	Compliant with a country's Wi-Fi regulations	Click the drop-down box to select
Channel	Data signal transmission channel from 1 to 13	Click the drop-down box to select

Repeater Setting

Wireless Setting has the Repeater setting option to setup the device to work as WIFI relay that extend WIFI Radio and WIFI coverage.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Repeater
WIFI-SCAN
SAVE & APPLY

WIFI WISP Repeater

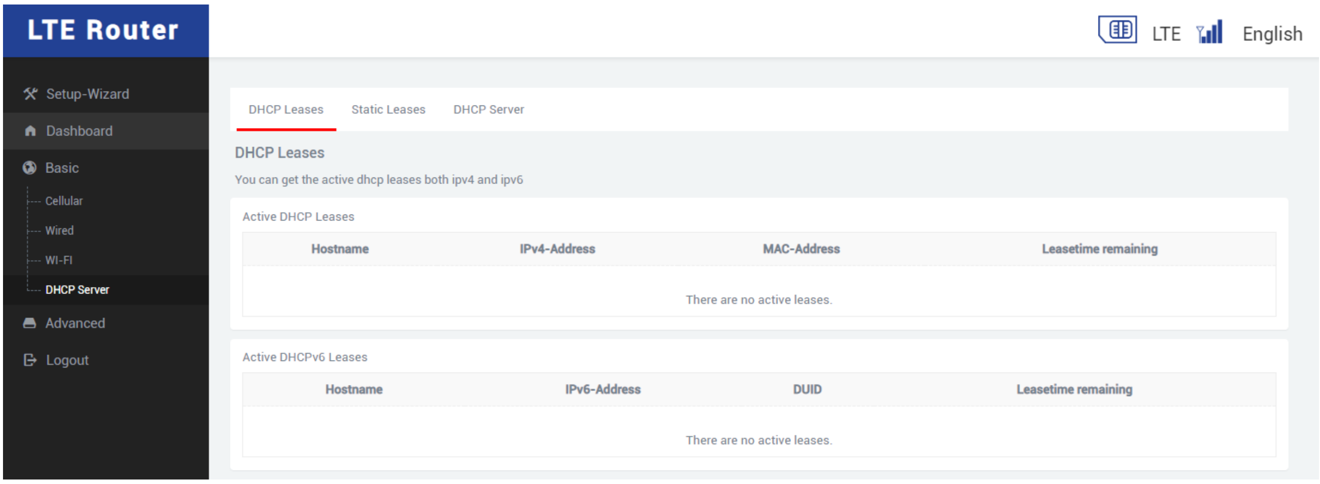
We Can configure the wifi wisp for the router

Repeater Status	Disconnected
Locked BSSID	○ Enable ● Disable
SSID	
BSSID	
Channel	0
Encryption Mode	Disable
Check Alive Host	

Common Settings – DHCP Server

In the DHCP server configuration, you can do the IP address and MAC address binding. You can also set the DHCP allocation method. Since the settings on this page may affect the Internet access, it is recommended that to get someone with computer network knowledge to do the setup.

DHCP Leases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DHCP Leases
Static Leases
DHCP Server

DHCP Leases

You can get the active dhcp leases both ipv4 and ipv6

Active DHCP Leases

Hostname	IPv4-Address	MAC-Address	Leasetime remaining

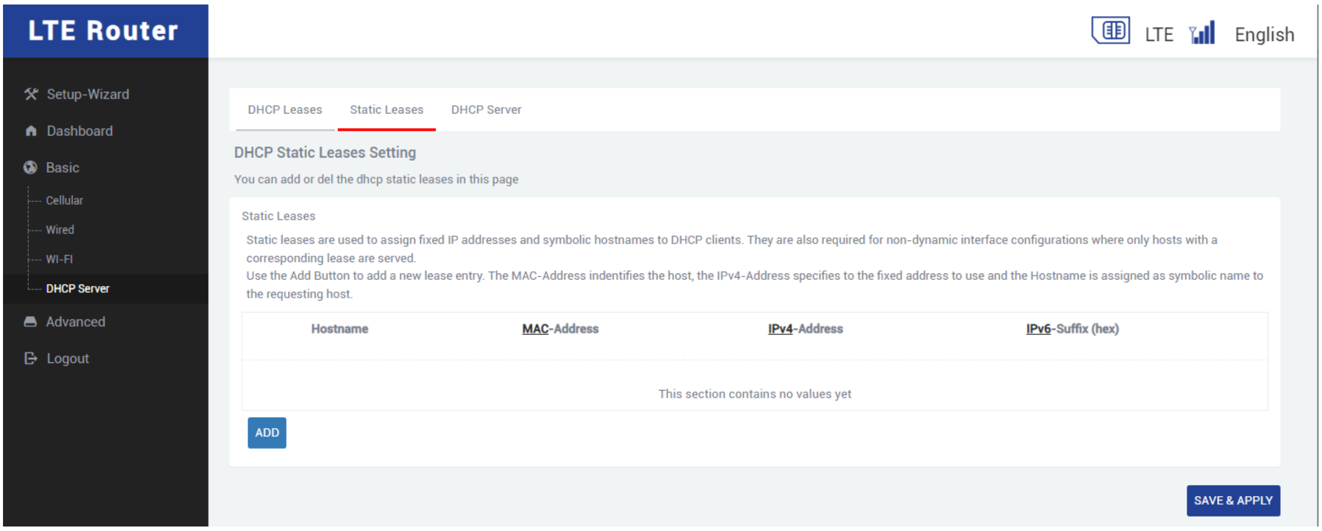
There are no active leases.

Active DHCPv6 Leases

Hostname	IPv6-Address	DUID	Leasetime remaining

There are no active leases.

Static Leases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DHCP Leases
Static Leases
DHCP Server
ADD
SAVE & APPLY

DHCP Static Leases Setting

You can add or del the dhcp static leases in this page

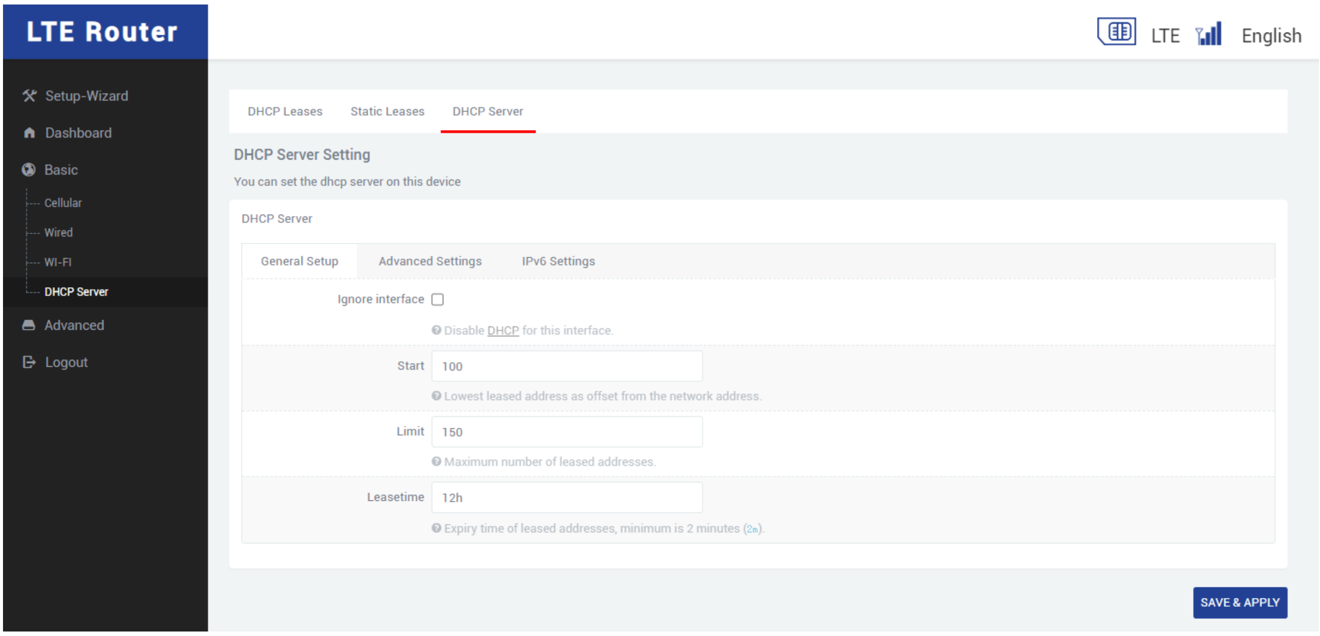
Static Leases

Static leases are used to assign fixed IP addresses and symbolic hostnames to DHCP clients. They are also required for non-dynamic interface configurations where only hosts with a corresponding lease are served.
Use the Add Button to add a new lease entry. The MAC-Address indentifies the host, the IPv4-Address specifies to the fixed address to use and the Hostname is assigned as symbolic name to the requesting host.

Hostname	MAC-Address	IPv4-Address	IPv6-Suffix (hex)

This section contains no values yet

DHCP Server – General Setup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DHCP Server Setting

You can set the dhcp server on this device

DHCP Server

Ignore interface ☐

Disable DHCP for this interface.

Start 100

Lowest leased address as offset from the network address.

Limit 150

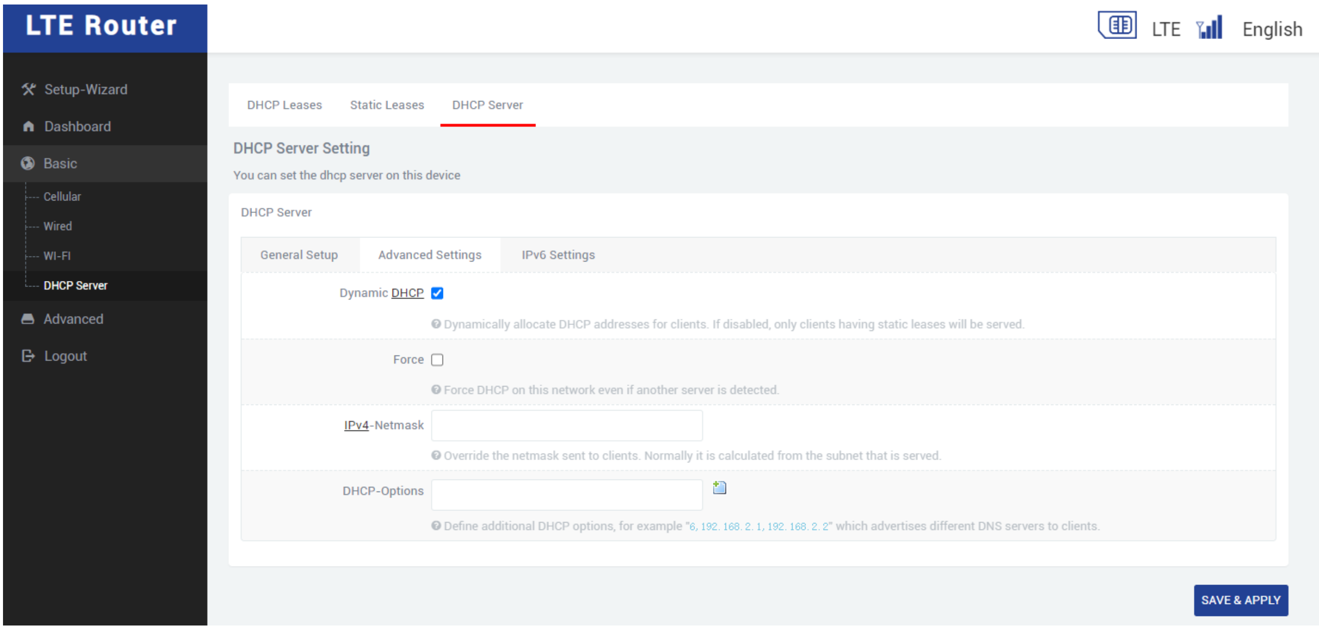
Maximum number of leased addresses.

Leasetime 12h

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

DHCP Server Setting	**Description**	**How to Set**
Ignore Interface	Enable or Disable DHCP for this Interface	Enable or Disable the Tick box option
Start	Lowest leased address as offset from the network address	Set according to the specific application
Limit	Maximum number of leased addresses	Set according to the specific application
Leasetime	Expiry time of leased addresses, minimum is 2 minutes	Set according to the specific application

DHCP Server – Advanced Settings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DHCP Server Setting

You can set the dhcp server on this device

DHCP Server

Dynamic DHCP ☑

Dynamically allocate DHCP addresses for clients. If disabled, only clients having static leases will be served.

Force ☐

Force DHCP on this network even if another server is detected.

IPv4-Netmask

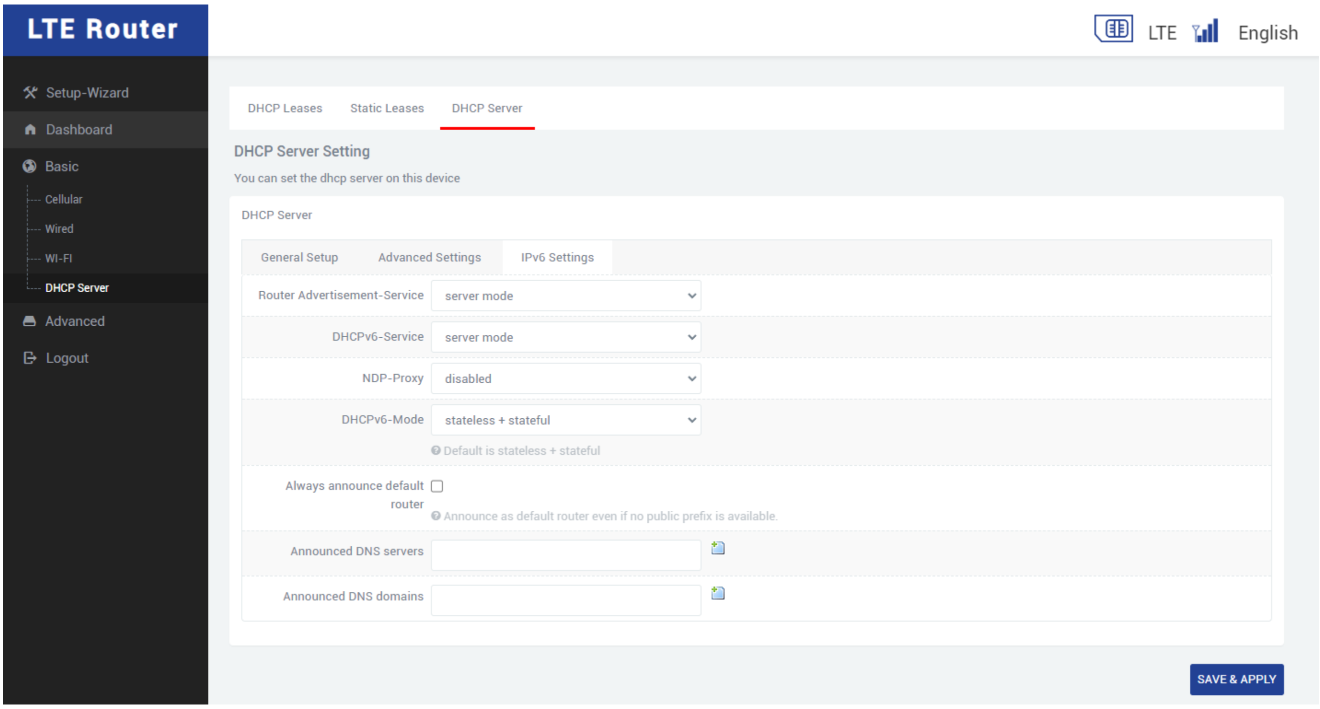
Override the netmask sent to clients. Normally it is calculated from the subnet that is served.

DHCP-Options

Define additional DHCP options, for example "6, 192. 168. 2. 1, 192. 168. 2. 2" which advertises different DNS servers to clients.

Advanced Setting	**Description**	**How to Set**
Dynamic DHCP	Dynamically allocate DHCP addresses for clients. If disabled, only clients having static leases will be served.	Enable or Disable the Tick box option
Force	Force DHCP on this network event if another server is detected.	Enable or Disable the Tick box option
IPv4 Netmask	Override the netmask sent to clients. Normally it is calculated from the subnet that is served.	Set according to the specific application
DHCP Options	Define additional DHCP options, For example “6, 192.168.2.1, 192.168.2.2” which advertises different DNS servers to clients	Set according to the specific application

DHCP Server – IPv6 Settings



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DHCP Leases
Static Leases
DHCP Server
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SAVE & APPLY

DHCP Server Setting

You can set the dhcp server on this device

DHCP Server

Router Advertisement-Service: server mode

DHCPv6-Service: server mode

NDP-Proxy: disabled

DHCPv6-Mode: stateless + stateful

Default is stateless + stateful

Always announce default router ☐

Announce as default router even if no public prefix is available.

Announced DNS servers:

Announced DNS domains:

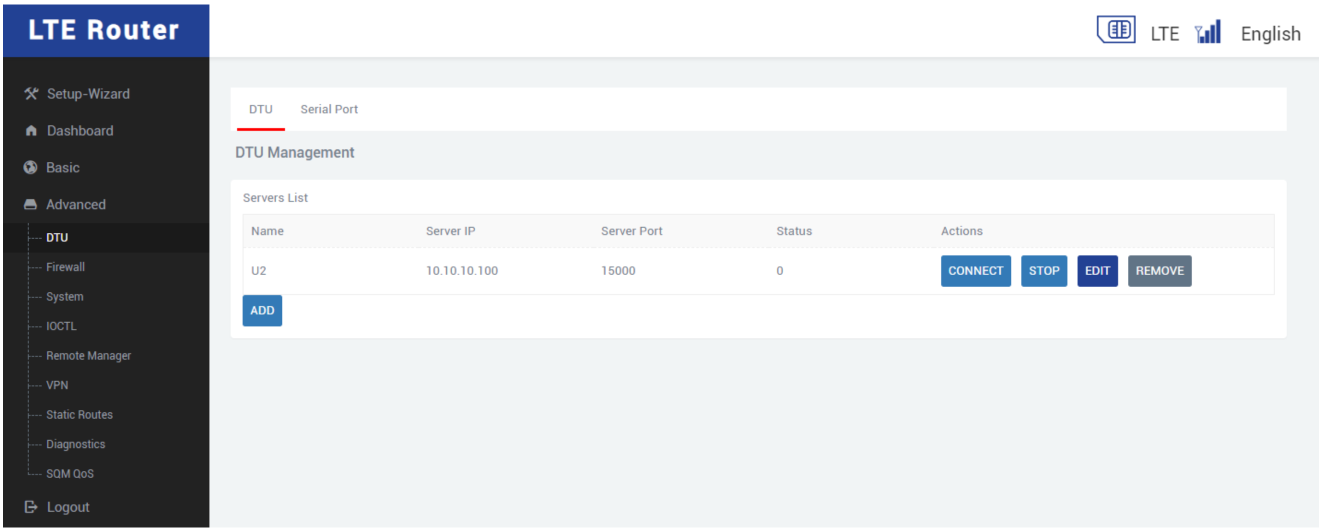
IPv6 Setting	Description	How to Set
Router Advertisement Service	Default Server Mode	Click the drop-down box to select
DHCPv6 Service	Default Server Mode	Click the drop-down box to select
NDP-Proxy	Default Disabled	Click the drop-down box to select
DHCPv6 Mode	Default is Stateless + Stateful	Click the drop-down box to select
Always Announce Default Router	Announce as default router even if no public prefix is available	Enable or Disable the Tick box option
Announced DNS Servers		If any
Announced DNS Domains		If any

Advanced Settings

In the advanced settings, you can perform various advanced configurations to the router, such as firewall, port mapping, language setting, time zone, TR069, firmware upgrade, etc.

Advanced Settings – DTU

DTU Management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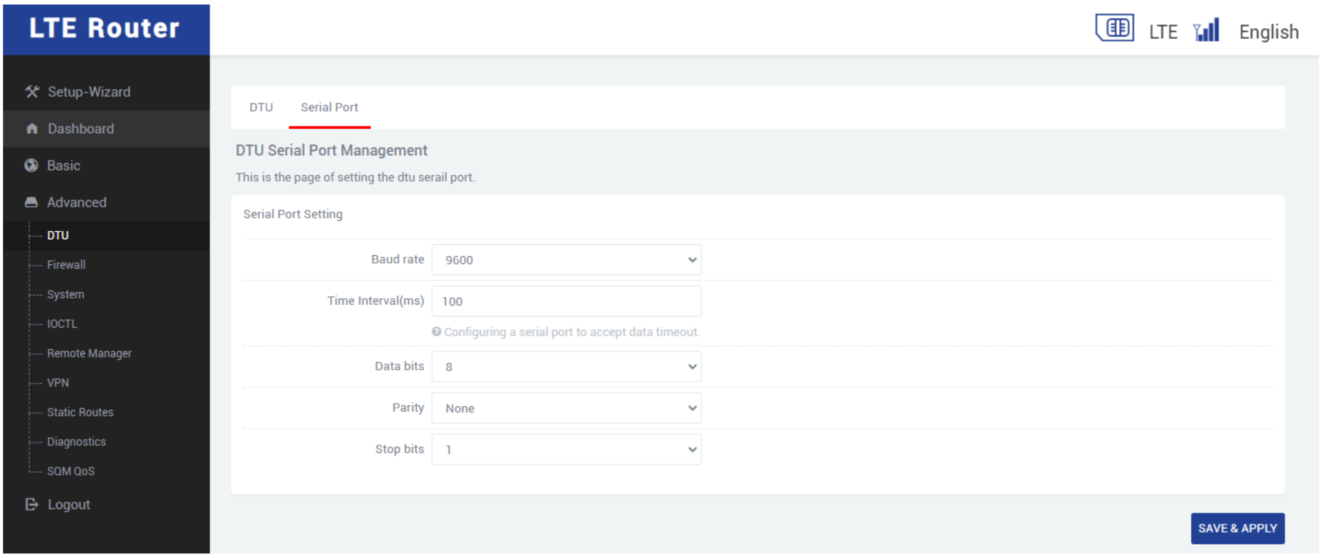
Serial Port
CONNECT
STOP
EDIT
REMOVE
ADD

DTU Management

Servers List

Name	Server IP	Server Port	Status	Actions
U2	10.10.10.100	15000	0	CONNECT STOP EDIT REMOVE

Serial Port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SQM QoS
Logout
DTU
Serial Port
SAVE & APPLY

DTU Serial Port Management

This is the page of setting the dtu serail port.

Serial Port Setting

Baud rate: 9600

Time Interval(ms): 100

Configuring a serial port to accept data timeout.

Data bits: 8

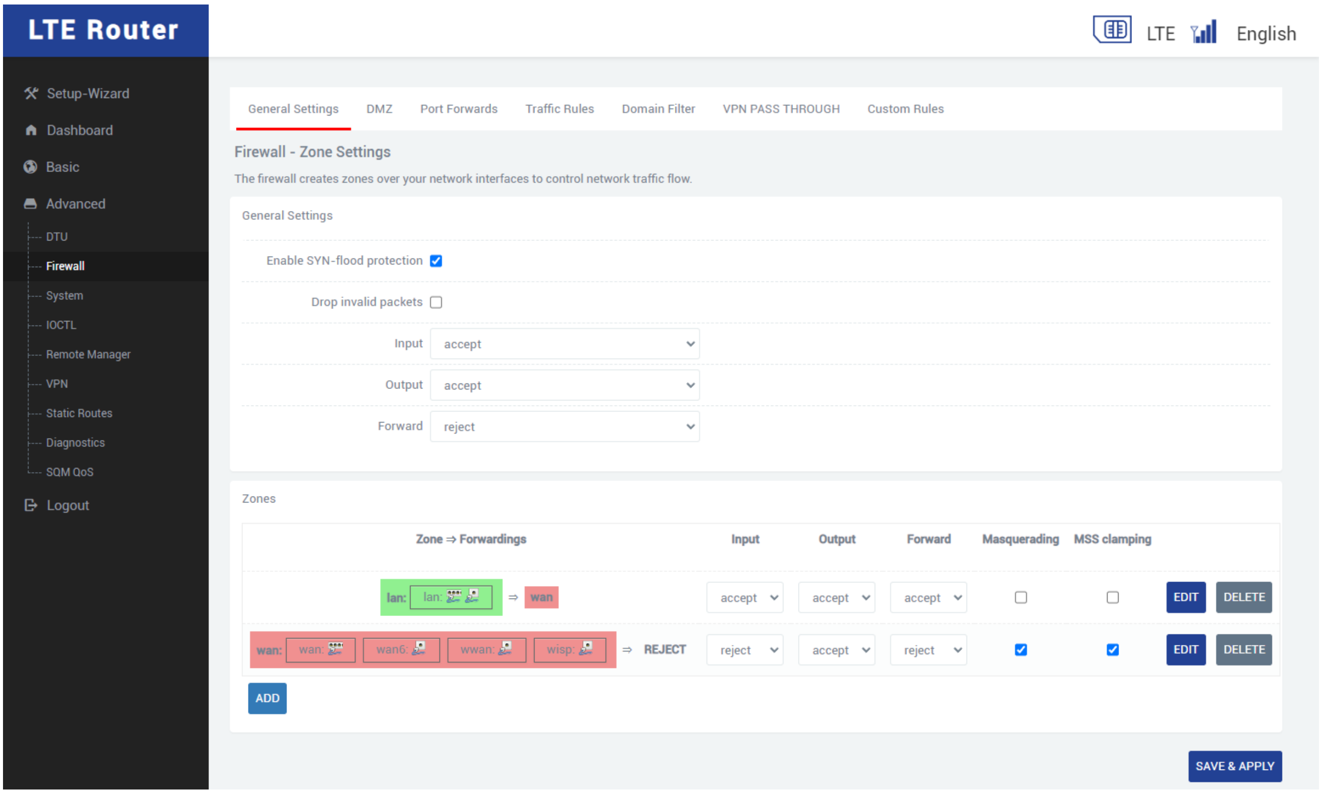
Parity: None

Stop bits: 1

Advanced Settings – Firewall

You can set the firewall rules of the router. Since the settings on this page may affect the Internet access, it is recommended that to get someone with computer network knowledge to do the setup.

General Settings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Traffic Rules
Domain Filter
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Custom Rules
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SAVE & APPLY

Firewall - Zone Settings

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

General Settings

Enable SYN-flood protection ☑

Drop invalid packets ☐

Input: accept

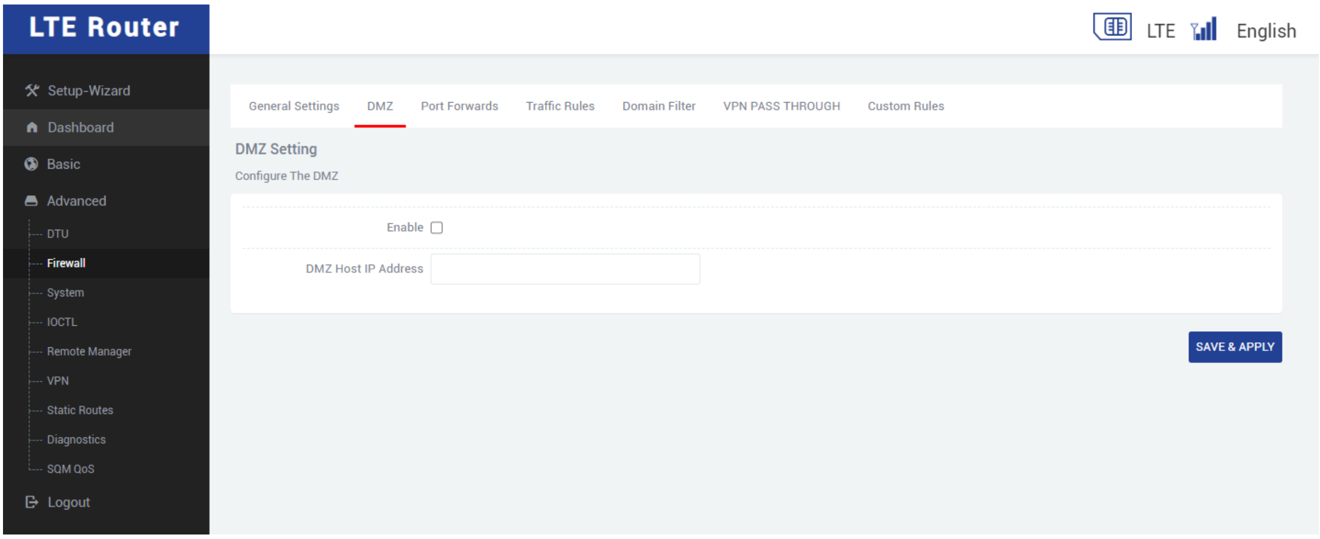
Output: accept

Forward: reject

Zones

Zone ⇒ Forwardings	Input	Output	Forward	Masquerading	MSS clamping	
lan: lan: ⇒ wan	accept	accept	accept	☐	☐	EDIT DELETE
wan: wan: wan6: wwan: wisp: ⇒ REJECT	reject	accept	reject	☑	☑	EDIT DELETE

DMZ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SAVE & APPLY

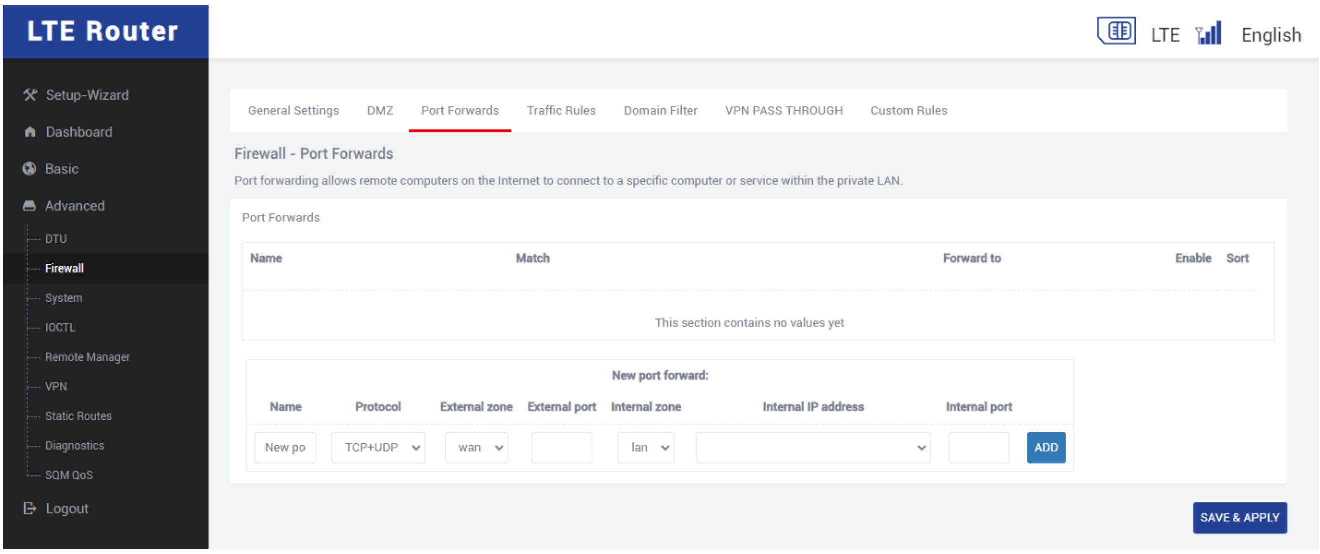
DMZ Setting

Configure The DMZ

Enable ☐

DMZ Host IP Address

Port Forwarding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Firewall - Port Forwards

Port forwarding allows remote computers on the Internet to connect to a specific computer or service within the private LAN.

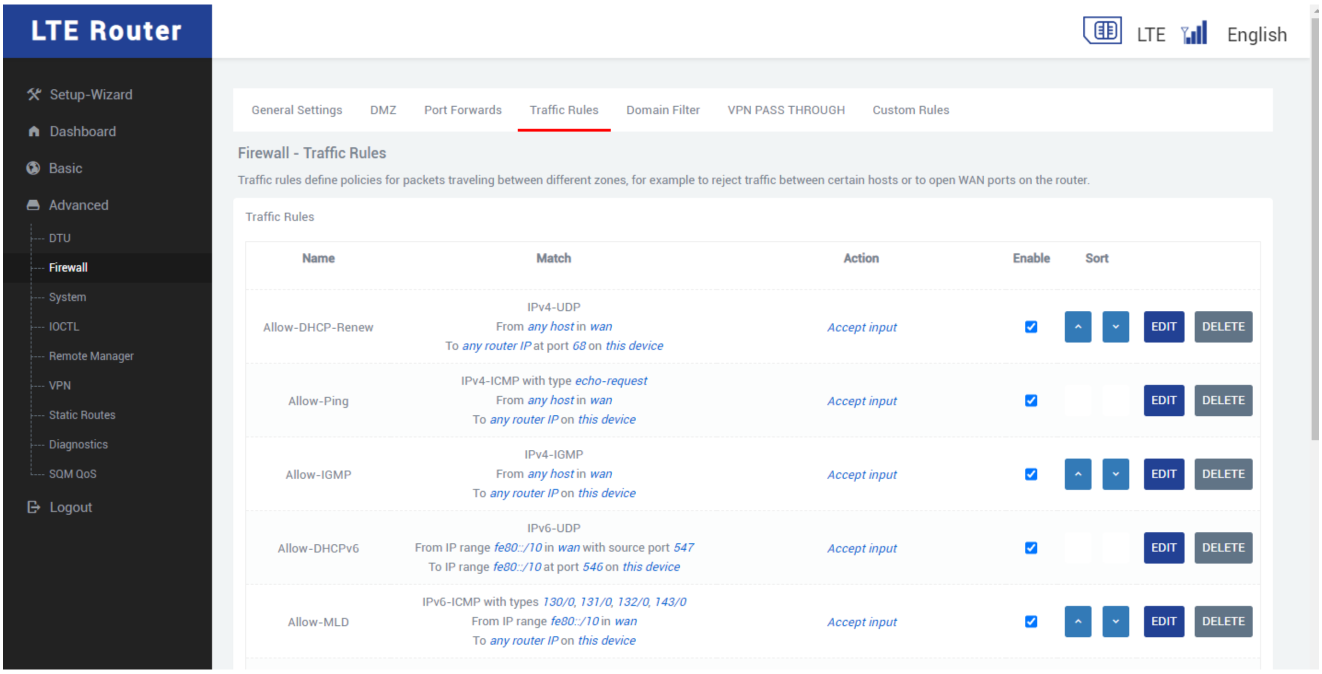
Port Forwards

Name	Match	Forward to	Enable	Sort
This section contains no values yet				

New port forward:

Name	Protocol	External zone	External port	Internal zone	Internal IP address	Internal port
New po	TCP+UDP	wan		lan		

Traffic Rules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Custom Rules

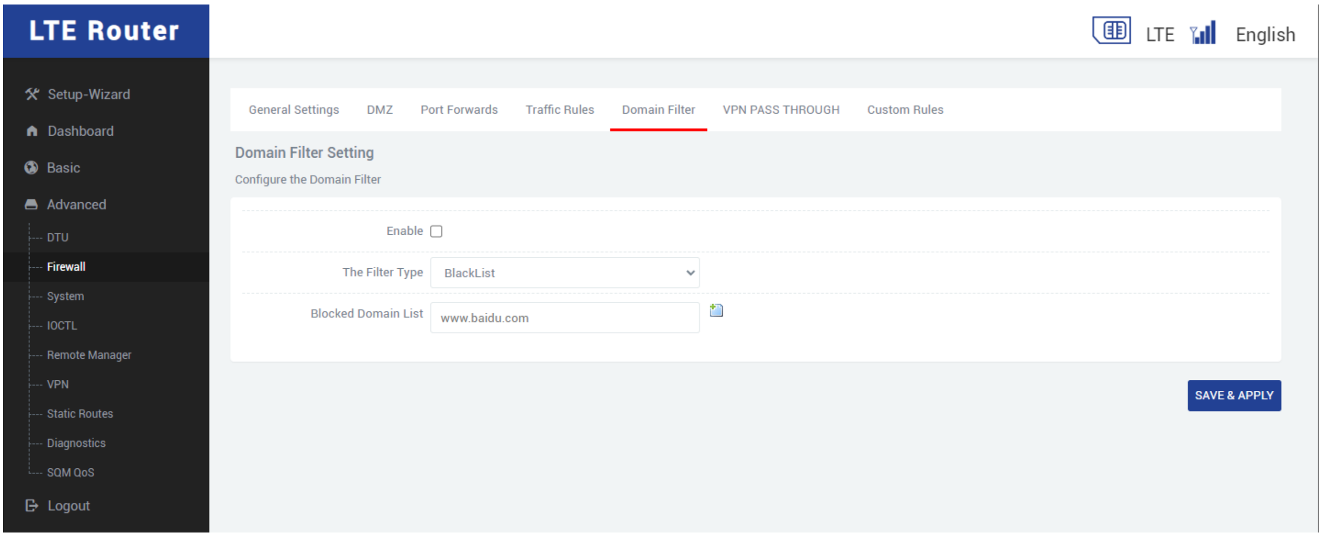
Firewall - Traffic Rules

Traffic rules define policies for packets traveling between different zones, for example to reject traffic between certain hosts or to open WAN ports on the router.

Traffic Rules

Name	Match	Action	Enable	Sort
Allow-DHCP-Renew	IPv4-UDP From *any host* in *wan* To *any router IP* at port *68* on *this device*	*Accept input*	☑	EDIT DELETE
Allow-Ping	IPv4-ICMP with type *echo-request* From *any host* in *wan* To *any router IP* on *this device*	*Accept input*	☑	EDIT DELETE
Allow-IGMP	IPv4-IGMP From *any host* in *wan* To *any router IP* on *this device*	*Accept input*	☑	EDIT DELETE
Allow-DHCPv6	IPv6-UDP From IP range *fe80::/10* in *wan* with source port *547* To IP range *fe80::/10* at port *546* on *this device*	*Accept input*	☑	EDIT DELETE
Allow-MLD	IPv6-ICMP with types *130/0, 131/0, 132/0, 143/0* From IP range *fe80::/10* in *wan* To *any router IP* on *this device*	*Accept input*	☑	EDIT DELETE

Domain Filter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Domain Filter Setting

Configure the Domain Filter

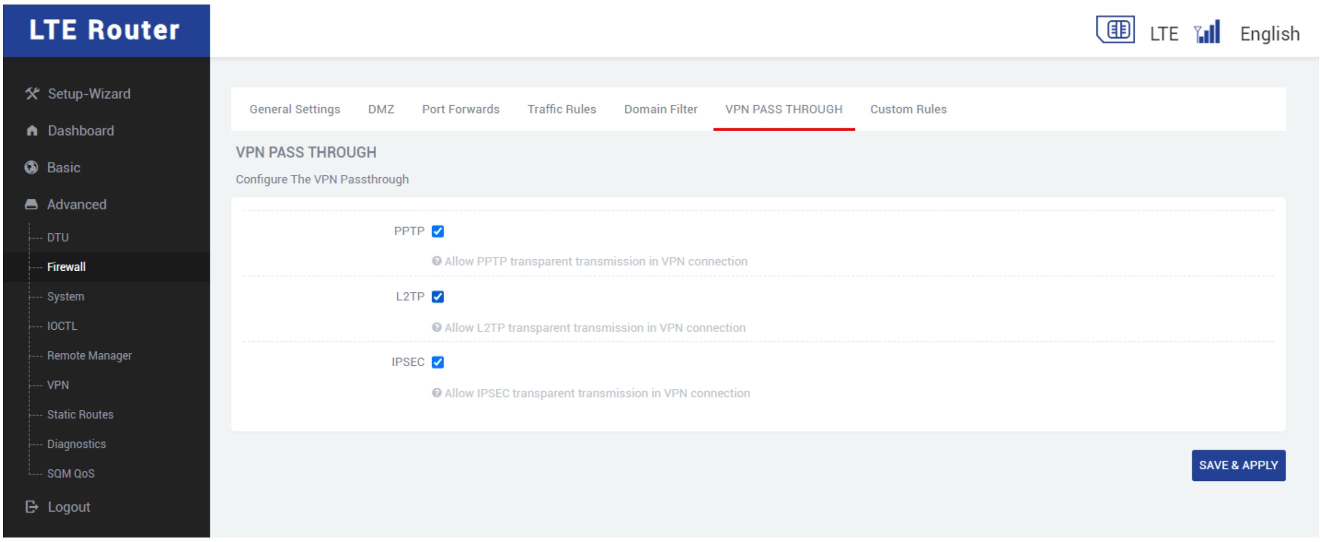
Enable ☐

The Filter Type: BlackList

Blocked Domain List: www.baidu.com

Domain Filter Setting	Description	How to Set
Enable	Disable or Enable the Domain Filter Function	Enable or Disable the Tick box option
The Filter Type	Blacklist: No access to the Domain in the List Whitelist: Only can access to the Domain in the List	Pick the option in the dropdown lost
Blocked Domain List	Fill in the address you need to prohibit or only access	Set according to the specific application

VPN Passthrough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Custom Rules
SAVE & APPLY

VPN PASS THROUGH

Configure The VPN Passthrough

PPTP ☑

Allow PPTP transparent transmission in VPN connection

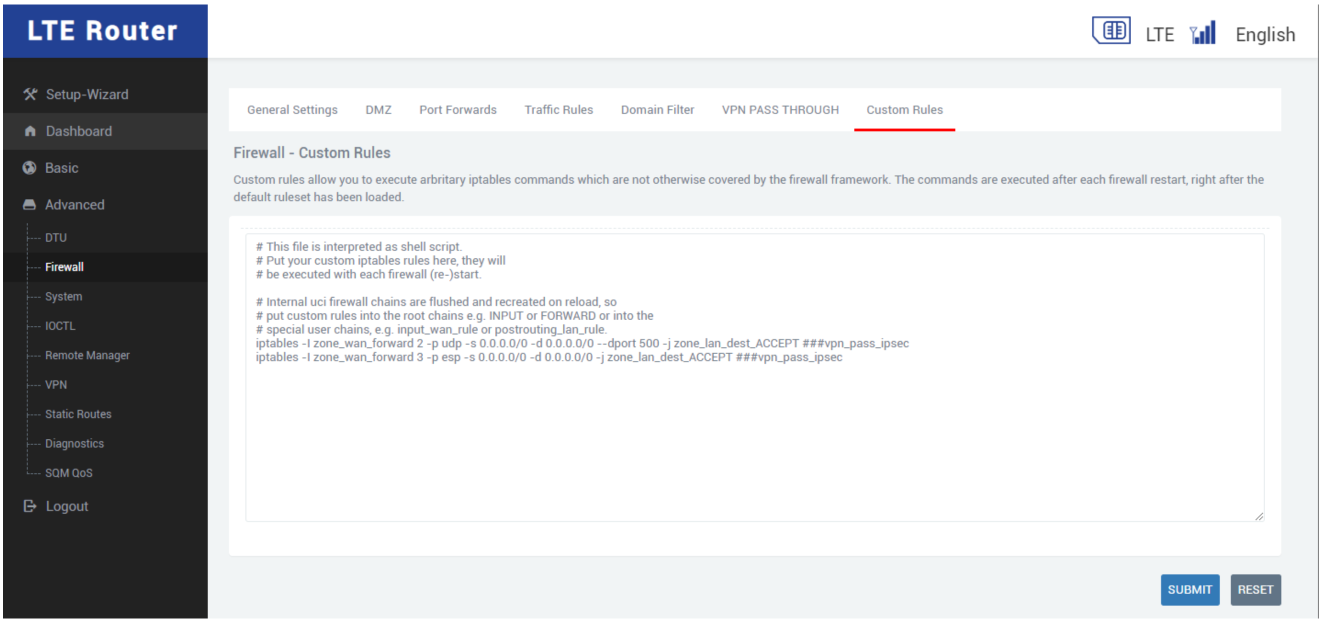
L2TP ☑

Allow L2TP transparent transmission in VPN connection

IPSEC ☑

Allow IPSEC transparent transmission in VPN connection

Custom Rules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RESET

Firewall - Custom Rules

Custom rules allow you to execute arbitrary iptables commands which are not otherwise covered by the firewall framework. The commands are executed after each firewall restart, right after the default ruleset has been loaded.

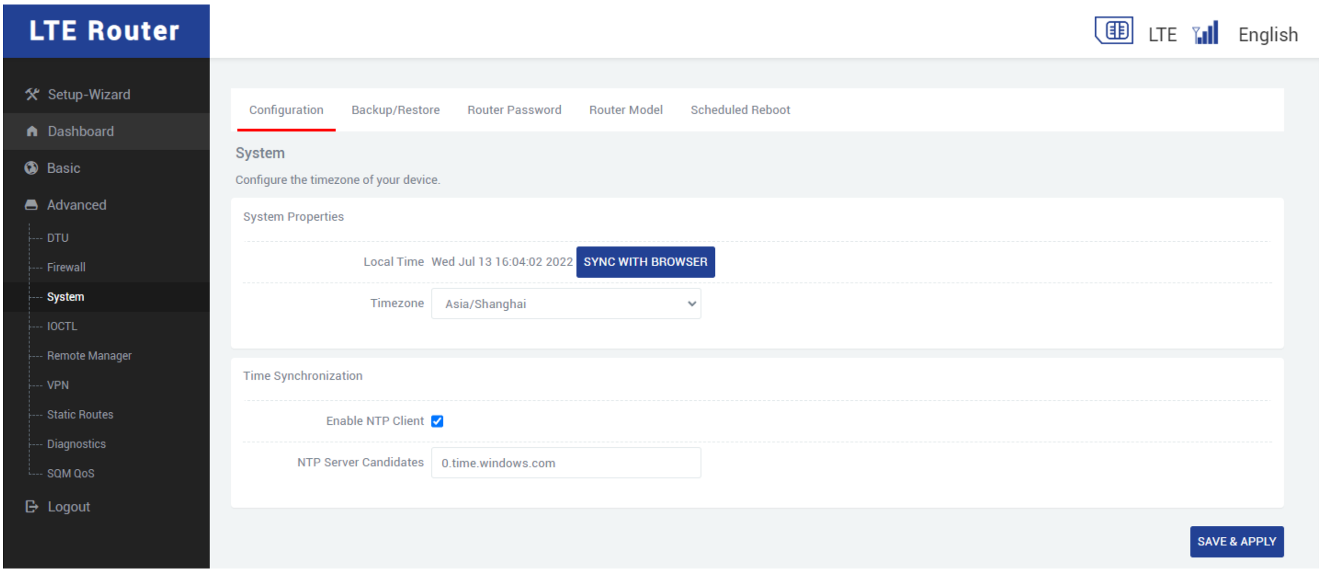
```
# This file is interpreted as shell script.
# Put your custom iptables rules here, they will
# be executed with each firewall (re-)start.

# Internal uci firewall chains are flushed and recreated on reload, so
# put custom rules into the root chains e.g. INPUT or FORWARD or into the
# special user chains, e.g. input_wan_rule or postrouting_lan_rule.
iptables -I zone_wan_forward 2 -p udp -s 0.0.0.0/0 -d 0.0.0.0/0 --dport 500 -j zone_lan_dest_ACCEPT ###vpn_pass_ipsec
iptables -I zone_wan_forward 3 -p esp -s 0.0.0.0/0 -d 0.0.0.0/0 -j zone_lan_dest_ACCEPT ###vpn_pass_ipsec
```

Advanced Settings – System

You can configure the router's time zone, import and export configuration, firmware upgrade, change system language, etc.

Configuration

After modification, click Apply to configure the application.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Backup/Restore
Router Password
Router Model
Scheduled Reboot
SYNC WITH BROWSER
SAVE & APPLY

System

Configure the timezone of your device.

System Properties

Local Time Wed Jul 13 16:04:02 2022

Timezone Asia/Shanghai

Time Synchronization

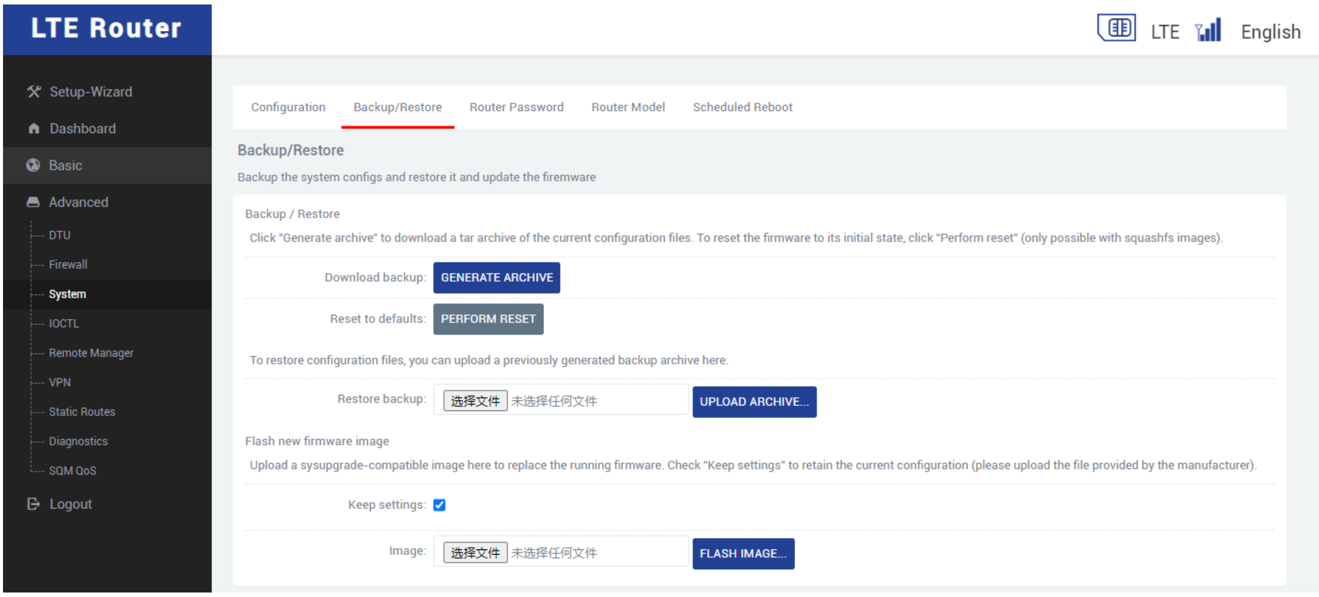
Enable NTP Client ☑

NTP Server Candidates 0.time.windows.com

Configuration Setting	Description	How to Set

Time Zone	Time zones can be modified. Such as: Asia/Shanghai (Asia/Shanghai)	Pull down menu and select
Sync With Browser	Synchronize the time of the browser with the selected time zone	Click on Save and Apply to configure the application

Upgrade (Backup/Restore)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Router Model
Scheduled Reboot
GENERATE ARCHIVE
PERFORM RESET
选择文件
UPLOAD ARCHIVE...
选择文件
FLASH IMAGE...

Backup/Restore

Backup the system configs and restore it and update the firemware

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: 选择文件 未选择任何文件 UPLOAD ARCHIVE...

Flash new firmware image

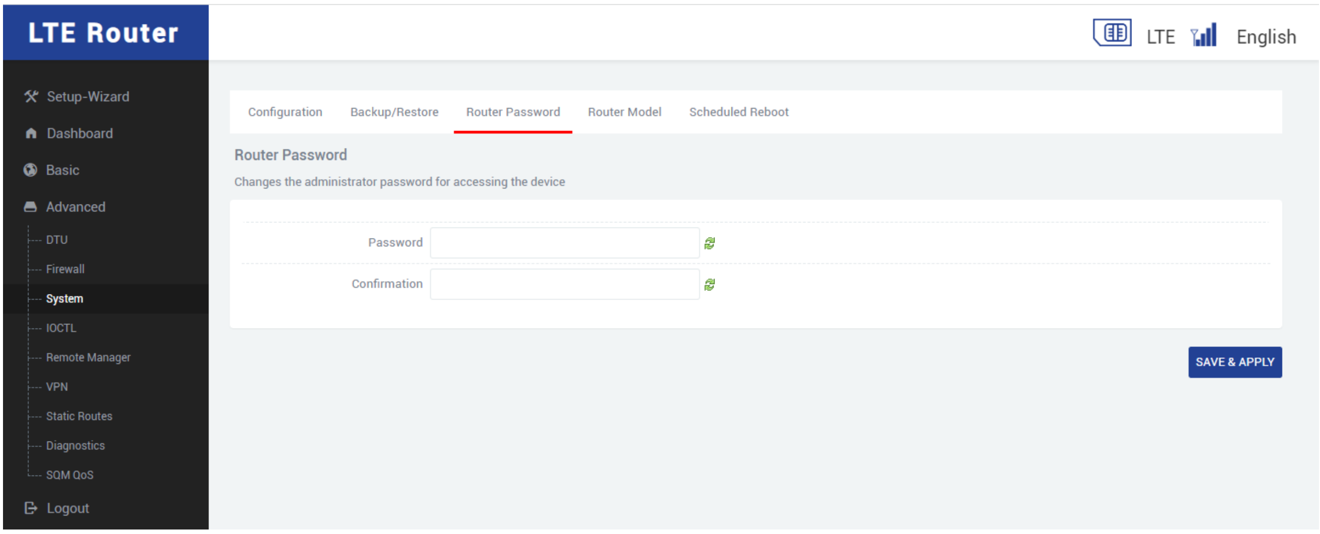
Upload a sysupgrade-compatible image here to replace the running firmware. Check "Keep settings" to retain the current configuration (please upload the file provided by the manufacturer).

Keep settings: ☑

Image: 选择文件 未选择任何文件 FLASH IMAGE...

Setting	**Description**	**How to Set**
Download Backup	Download a tarball of the current configuration	Auto download the backup after clicking GENERATE ARCHIVE
Reset to Defaults	Reset to Factory Configuration	Restore Factory Configuration after clicking PERFORM RESET
Restore Backup	Upload a tarball of the saved configuration and to configure the router parameters to be the same as the saved configuration.	Select a saved configuration file and click UPLOAD ARCHIVE
Keep Settings	This option makes the firmware upgrade will not reset the router parameters, but will keep it instead	Tick or untick
Image (Flash Image)	Upgrade the router firmware	Select the firmware upgrade provided by the manufacturer

Router Password


LTE Router
LTE
English
Setup-Wizard
Dashboard
Basic
Advanced
DTU
Firewall
System
IOCTL
Remote Manager
VPN
Static Routes
Diagnostics
SQM QoS
Logout
Configuration
Backup/Restore
Router Password
Router Model
Scheduled Reboot
SAVE & APPLY

Router Password

Changes the administrator password for accessing the device

Password

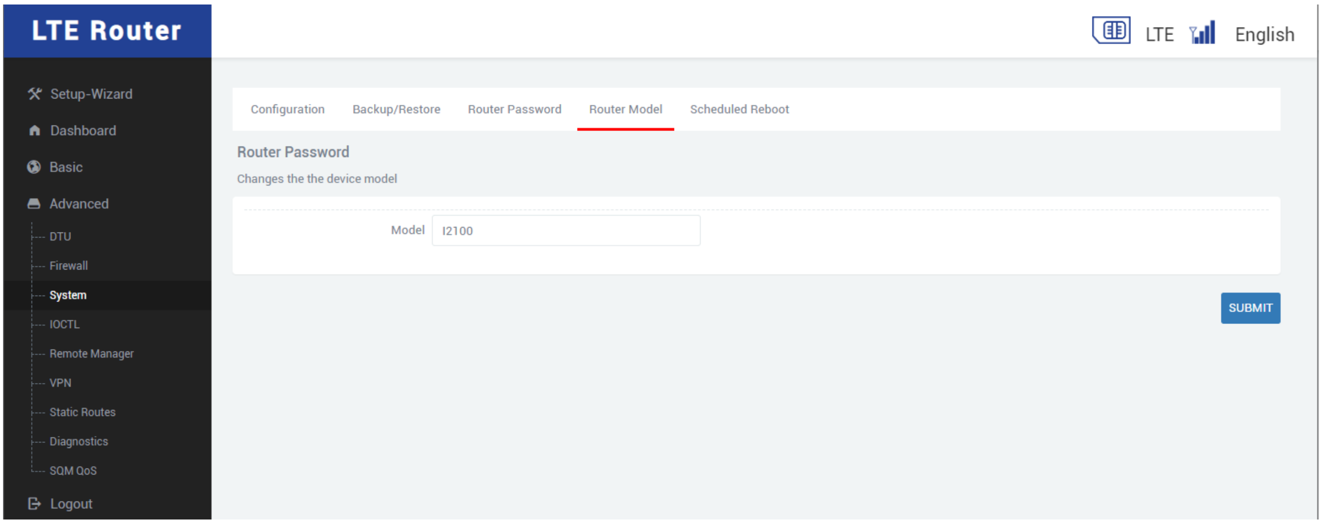
Confirmation

The router password setting description:

Setting	**Description**	**How to Set**
Password	After the modification is completed, the password of the current login account is changed to this password	Fill in the same password in both fields and then apply to make the password change.
Confirmation	Repeat the new password to ensure password you enter correctly	Fill in the same password in both fields and then apply to make the password change.

Router Model

You can view the model number of the router


LTE Router
LTE
English
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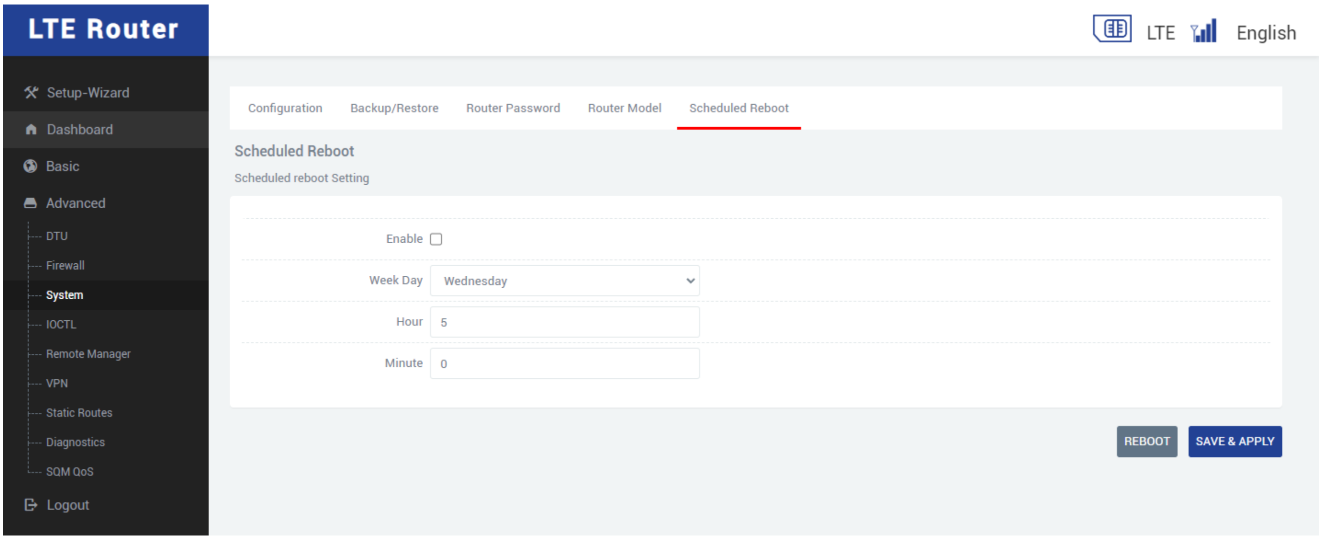
Dashboard
Basic
Advanced
DTU
Firewall
System
IOCTL
Remote Manager
VPN
Static Routes
Diagnostics
SQM QoS
Logout
Configuration
Backup/Restore
Router Password
Router Model
Scheduled Reboot
SUBMIT

Router Password

Changes the the device model

Model: I2100

Schedule Reboot


LTE Router
LTE
English
Setup-Wizard
Dashboard
Basic
Advanced
DTU
Firewall
System
IOCTL
Remote Manager
VPN
Static Routes
Diagnostics
SQM QoS
Logout
Configuration
Backup/Restore
Router Password
Router Model
Scheduled Reboot
REBOOT
SAVE & APPLY

Scheduled Reboot

Scheduled reboot Setting

Enable ☐

Week Day: Wednesday

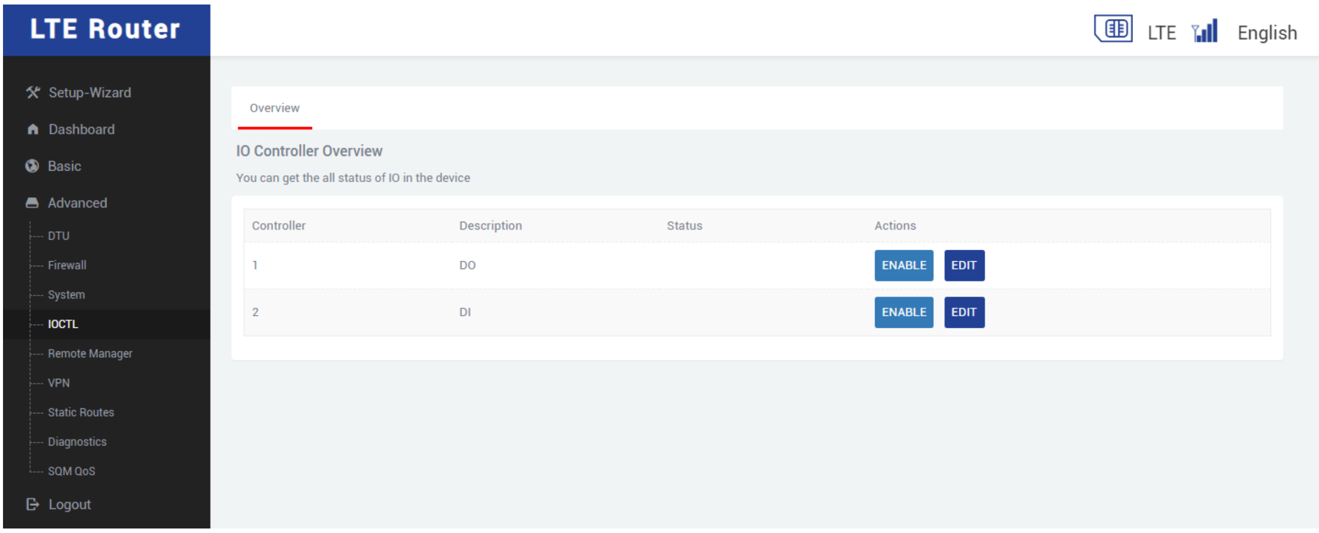
Hour: 5

Minute: 0

Setting	**Description**	**How to Set**
Enable	Check and apply to complete the configuration	Tick or untick
Week Day	Choose the day of the week or restart every day	Pull down menu and select
Hour	Restart at what time	Set according to the specific application
Minute	Restart at what minute of the day	Set according to the specific application

Advanced Settings – IO Controller (IOCTL)

You can set the IO controller of the router


LTE Router
LTE
English
Setup-Wizard
Dashboard
Basic
Advanced
DTU
Firewall
System
IOCTL
Remote Manager
VPN
Static Routes
Diagnostics
SQM QoS
Logout
Overview
ENABLE
EDIT

IO Controller Overview

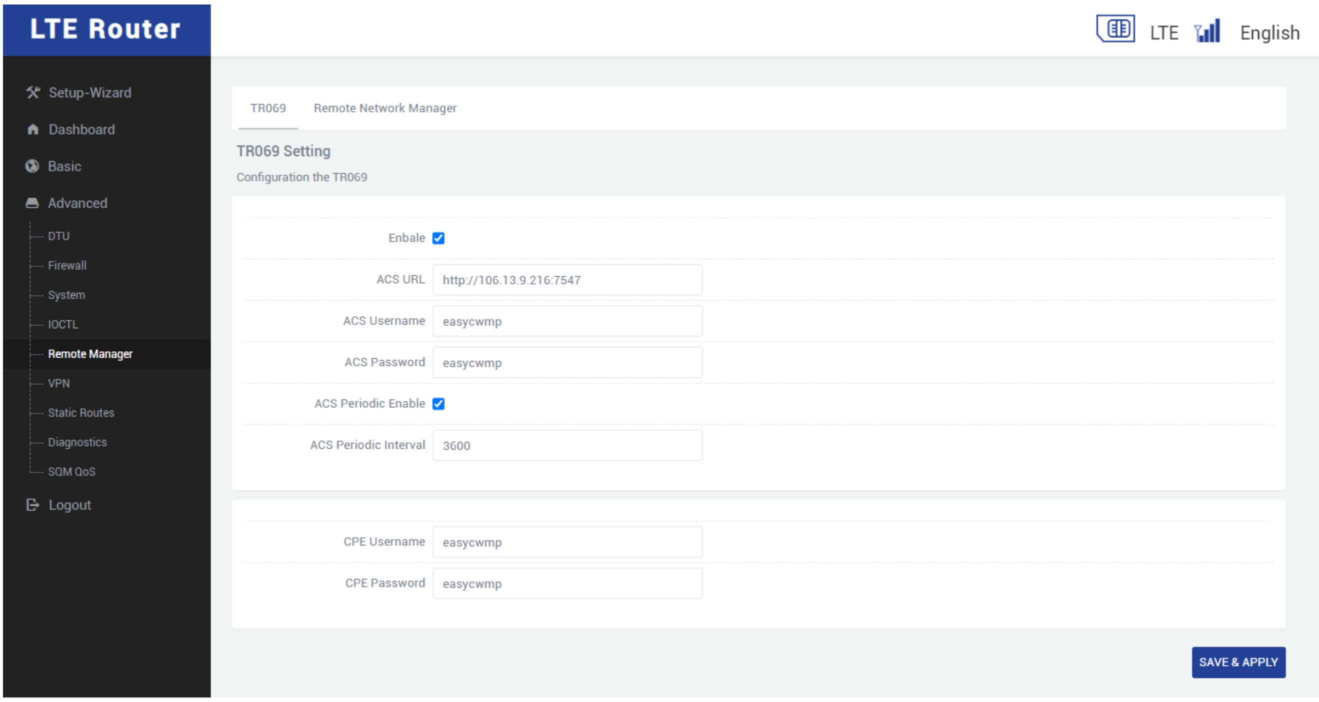
You can get the all status of IO in the device

Controller	Description	Status	Actions
1	DO		ENABLE EDIT
2	DI		ENABLE EDIT

Advanced Settings – Remote Manager

TR069 and cloud platform configuration can be set.

TR069


LTE Router
LTE
English
Setup-Wizard
Dashboard
Basic
Advanced
DTU
Firewall
System
IOCTL
Remote Manager
VPN
Static Routes
Diagnostics
SQM QoS
Logout
TR069
Remote Network Manager
SAVE & APPLY

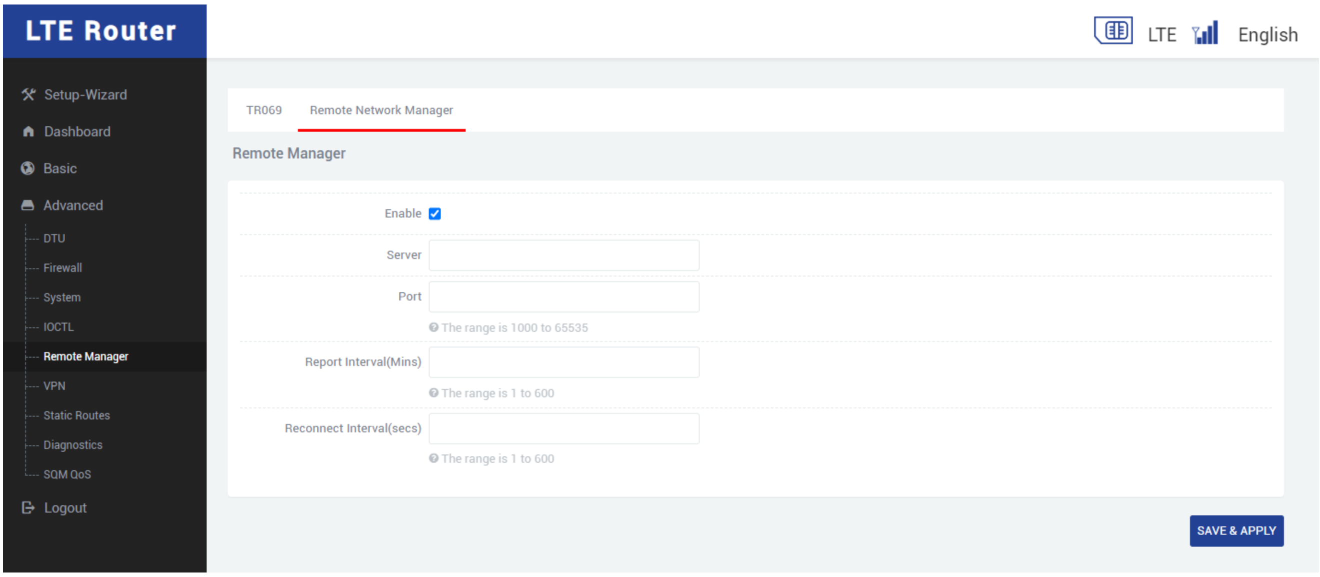
TR069 Setting

Configuration the TR069

Enbale ☑
ACS URL: http://106.13.9.216:7547
ACS Username: easycwmp
ACS Password: easycwmp
ACS Periodic Enable ☑
ACS Periodic Interval: 3600

CPE Username: easycwmp
CPE Password: easycwmp

Remote Network Manager (Cloud Platform)


LTE Router
LTE
English
Setup-Wizard
Dashboard
Basic
Advanced
DTU
Firewall
System
IOCTL
Remote Manager
VPN
Static Routes
Diagnostics
SQM QoS
Logout
TR069
Remote Network Manager
SAVE & APPLY

Remote Manager

Enable ☑

Server

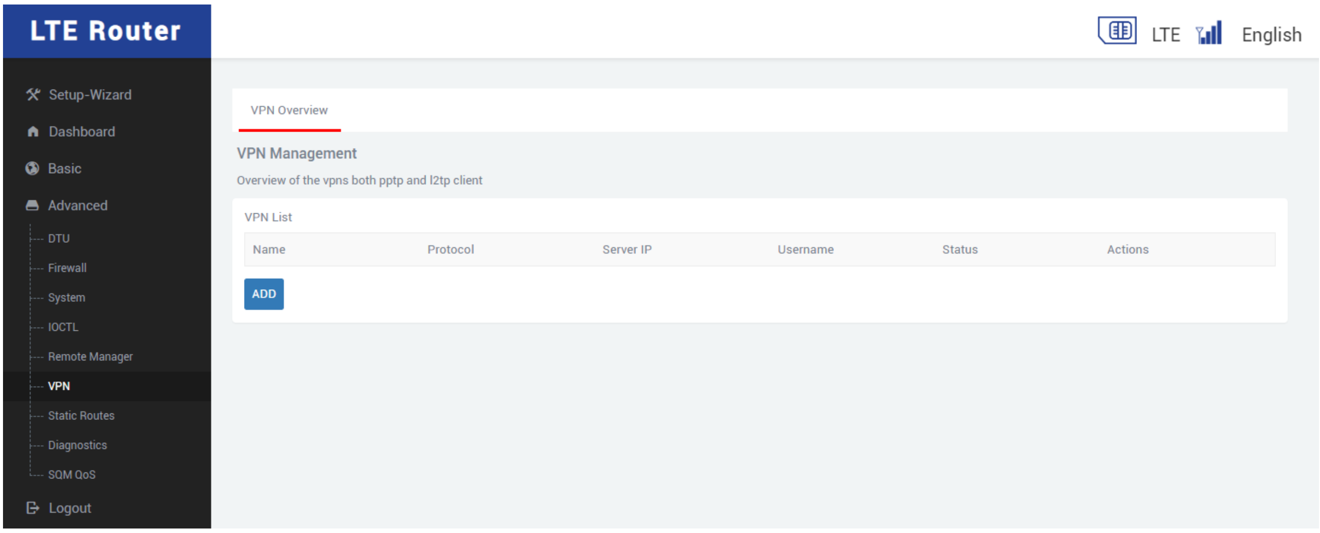
Port
The range is 1000 to 65535

Report Interval(Mins)
The range is 1 to 600

Reconnect Interval(secs)
The range is 1 to 600

Advanced Settings – VPN

You can setup the PPTP and L2TP client for a VPN connection.


LTE Router
LTE
English
Setup-Wizard
Dashboard
Basic
Advanced
DTU
Firewall
System
IOCTL
Remote Manager
VPN
Static Routes
Diagnostics
SQM QoS
Logout
VPN Overview
ADD

VPN Management

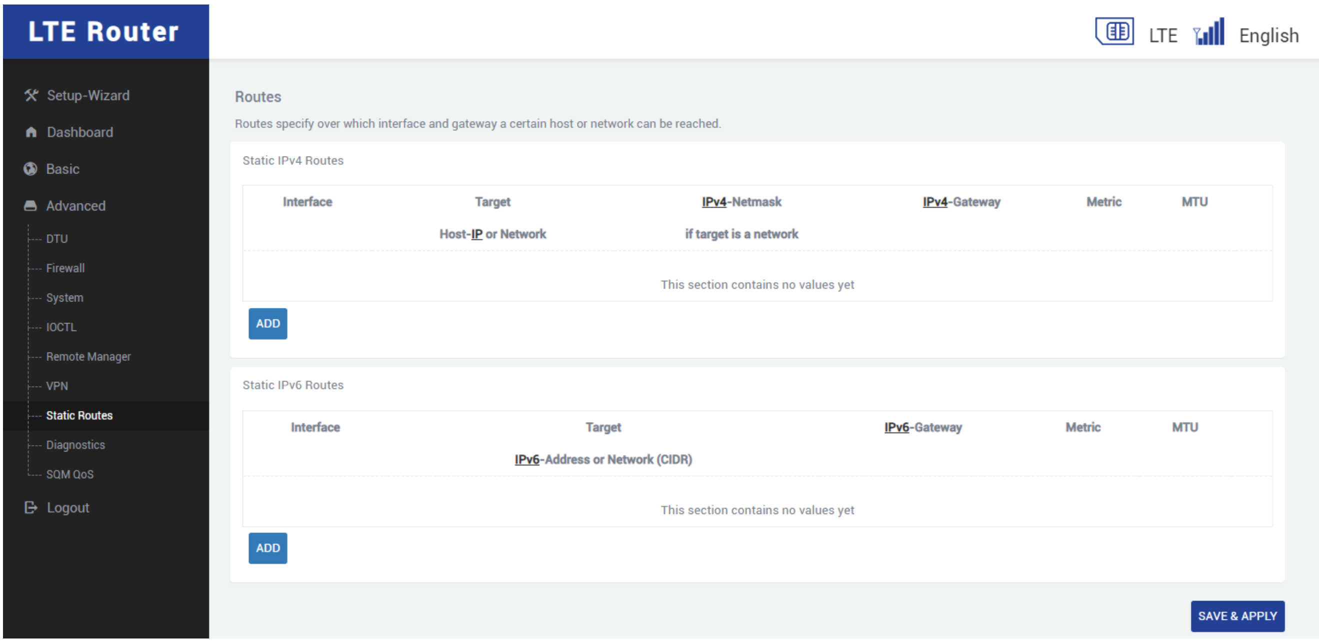
Overview of the vpns both pptp and l2tp client

VPN List

Name	Protocol	Server IP	Username	Status	Actions

Advanced Settings – Static Route

Set up static routing rules in the router. Since the settings on this page may affect the Internet access, it is recommended that to get someone with computer network knowledge to do the setup.


LTE Router
LTE
English
Setup-Wizard
Dashboard
Basic
Advanced
DTU
Firewall
System
IOCTL
Remote Manager
VPN
Static Routes
Diagnostics
SQM QoS
Logout
ADD
ADD
SAVE & APPLY

Routes

Routes specify over which interface and gateway a certain host or network can be reached.

Static IPv4 Routes

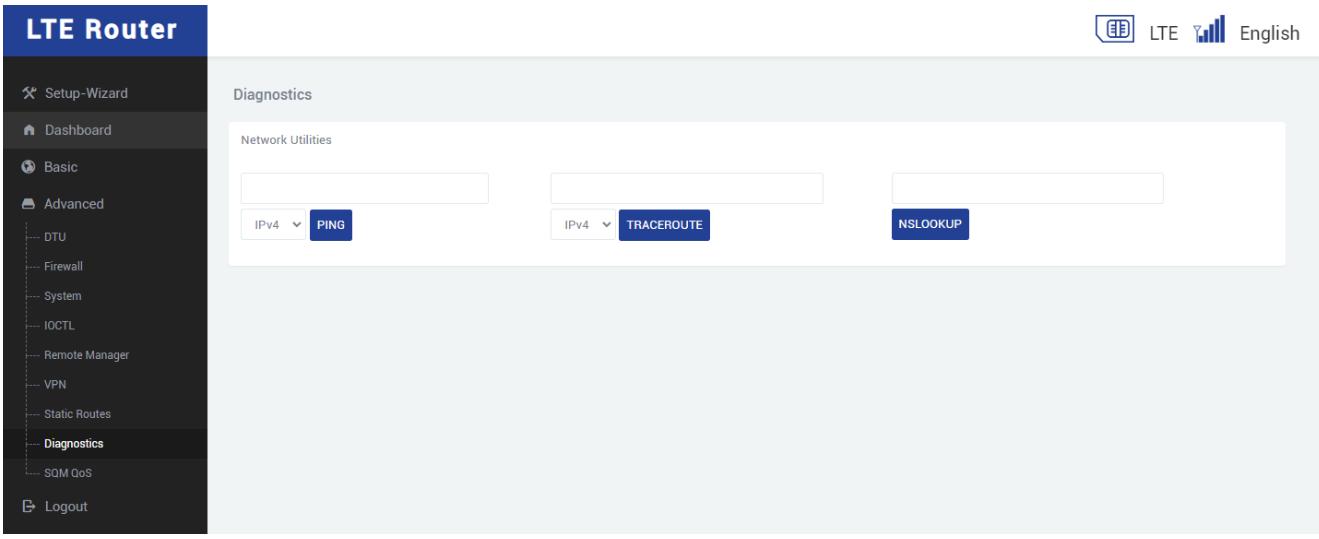
Interface	Target Host-IP or Network	IPv4-Netmask if target is a network	IPv4-Gateway	Metric	MTU
This section contains no values yet					

Static IPv6 Routes

Interface	Target IPv6-Address or Network (CIDR)	IPv6-Gateway	Metric	MTU
This section contains no values yet				

Advanced Settings – Network Diagnostics

You can use the functions to check the network status of the router


LTE Router
LTE
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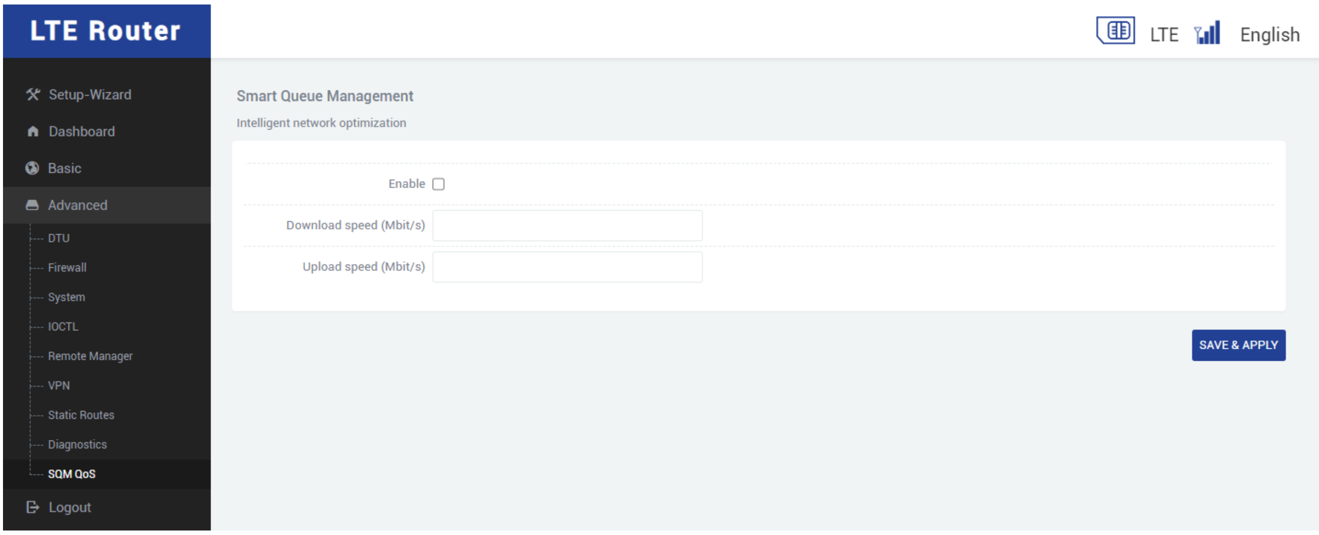
Dashboard
Basic
Advanced
DTU
Firewall
System
IOCTL
Remote Manager
VPN
Static Routes
Diagnostics
SQM QoS
Logout
IPv4
PING
IPv4
TRACEROUTE
NSLOOKUP

Diagnostics

Network Utilities

Advanced Settings – SQM-QoS

Setting QoS can optimize the network quality of the router. Since the settings on this page may affect the Internet access, it is recommended that to get someone with computer network knowledge to do the setup.


LTE Router
LTE
English
Setup-Wizard
Dashboard
Basic
Advanced
DTU
Firewall
System
IOCTL
Remote Manager
VPN
Static Routes
Diagnostics
SQM QoS
Logout
SAVE & APPLY

Smart Queue Management

Intelligent network optimization

Enable ☐

Download speed (Mbit/s)

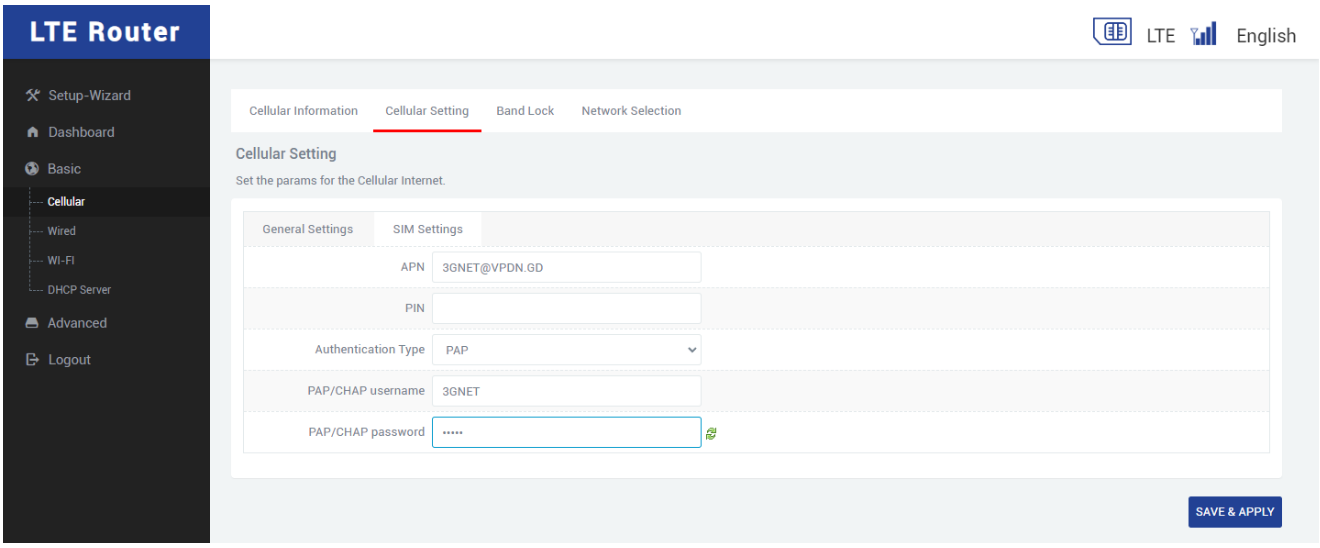
Upload speed (Mbit/s)

Typical Application

Typical Application – APN/VPDN Dedicated Network Card

When the user's card uses a private network card with APN function, the router can be modified according to the following configuration, so that the router can connect to the private network normally.

1. Find the Cellular Network in the basic settings, click "Cellular Setting" tab, fill in the APN or VPDN parameters provided by the operator in the corresponding position, and click "Submit".


LTE Router
LTE
English
Setup-Wizard
Dashboard
Basic
Cellular
Wired
WI-FI
DHCP Server
Advanced
Logout
Cellular Information
Cellular Setting
Band Lock
Network Selection
General Settings
SIM Settings
SAVE & APPLY

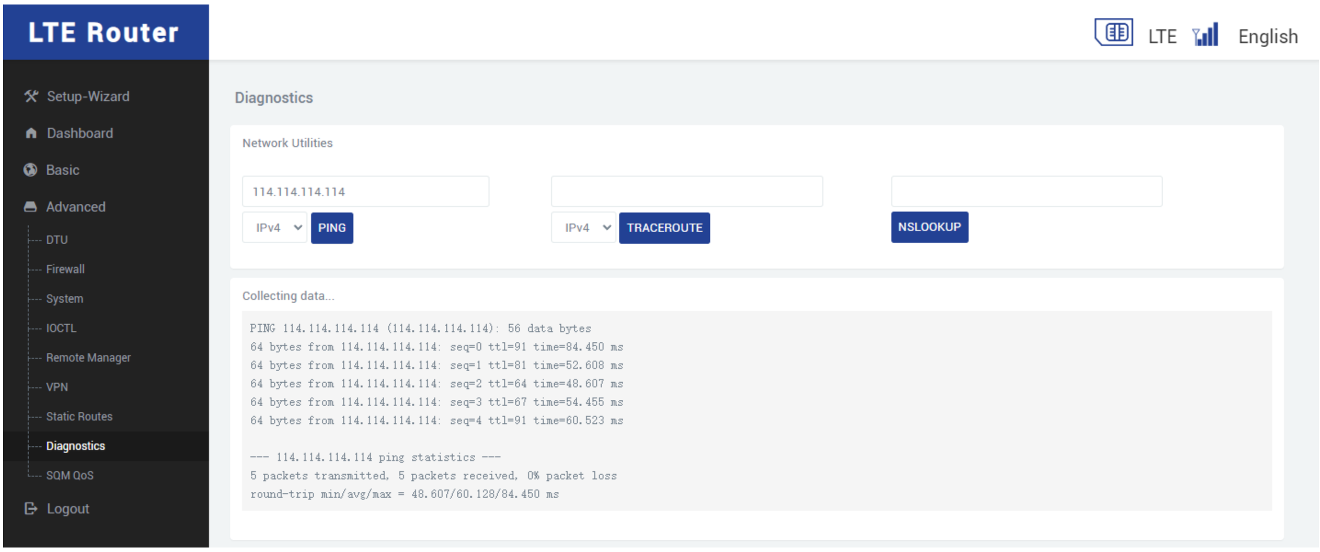
Cellular Setting

Set the params for the Cellular Internet.

APN: 3GNET@VPDN.GD
PIN:
Authentication Type: PAP
PAP/CHAP username: 3GNET
PAP/CHAP password: •••••

Note: The link detection address must be filled with a server address that can be pinged, otherwise the router cannot judge whether the network dialing is normal or not, which will cause the network to be unstable.

2. Check the network by ping to a server address via the network diagnosis page to determine whether the connection is normal and working.


LTE Router
LTE
English
Setup-Wizard
Dashboard
Basic
Advanced
DTU
Firewall
System
IOCTL
Remote Manager
VPN
Static Routes
Diagnostics
SQM QoS
Logout
Diagnostics
Network Utilities
IPv4
PING
IPv4
TRACEROUTE
NSLOOKUP

114.114.114.114

Collecting data...

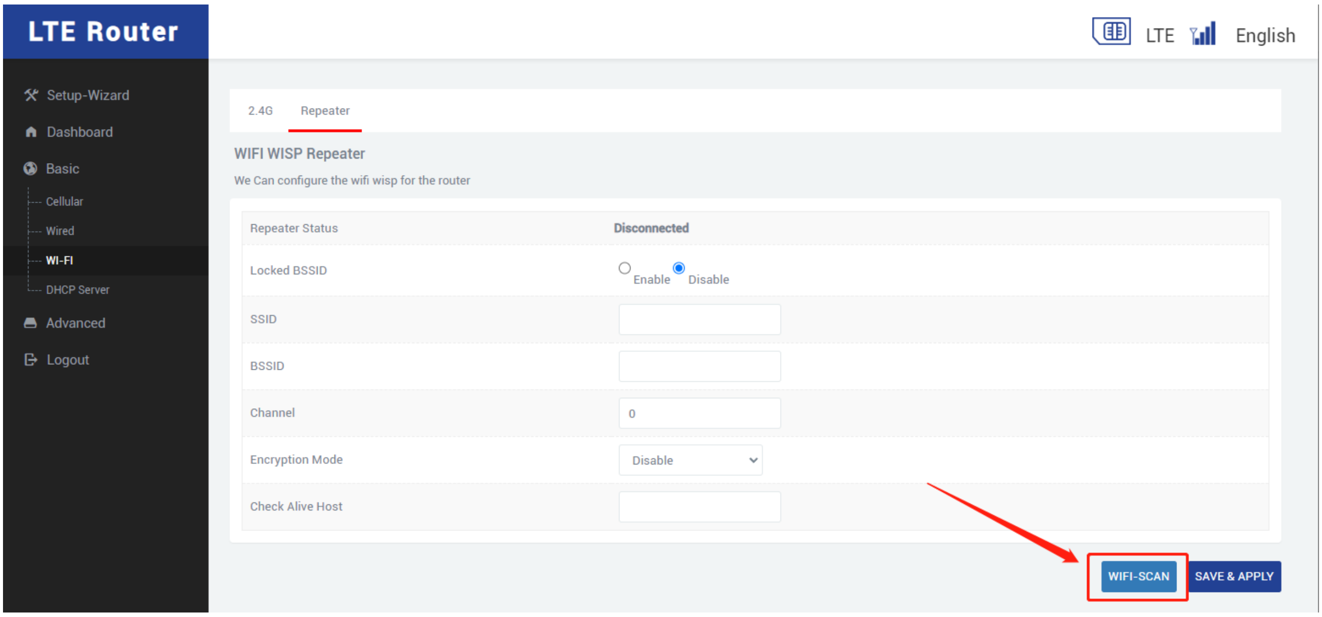
```
PING 114.114.114.114 (114.114.114.114): 56 data bytes
64 bytes from 114.114.114.114: seq=0 ttl=91 time=84.450 ms
64 bytes from 114.114.114.114: seq=1 ttl=81 time=52.608 ms
64 bytes from 114.114.114.114: seq=2 ttl=64 time=48.607 ms
64 bytes from 114.114.114.114: seq=3 ttl=67 time=54.455 ms
64 bytes from 114.114.114.114: seq=4 ttl=91 time=60.523 ms

--- 114.114.114.114 ping statistics ---
5 packets transmitted, 5 packets received, 0% packet loss
round-trip min/avg/max = 48.607/60.128/84.450 ms
```

Typical Application – WIFI Relay / Repeater

The wireless repeater function is to use the router's WIFI as the wireless client terminal to connect to another existing WIFI hotspot. This solution can use the network of the other router or hotspot to reduce the use of cellular traffic. The specific configuration is as follows:

1. Open the configuration page of "Common Settings" --> "Wireless". Click "Relay Settings", click "Connect" to search for surrounding networks.

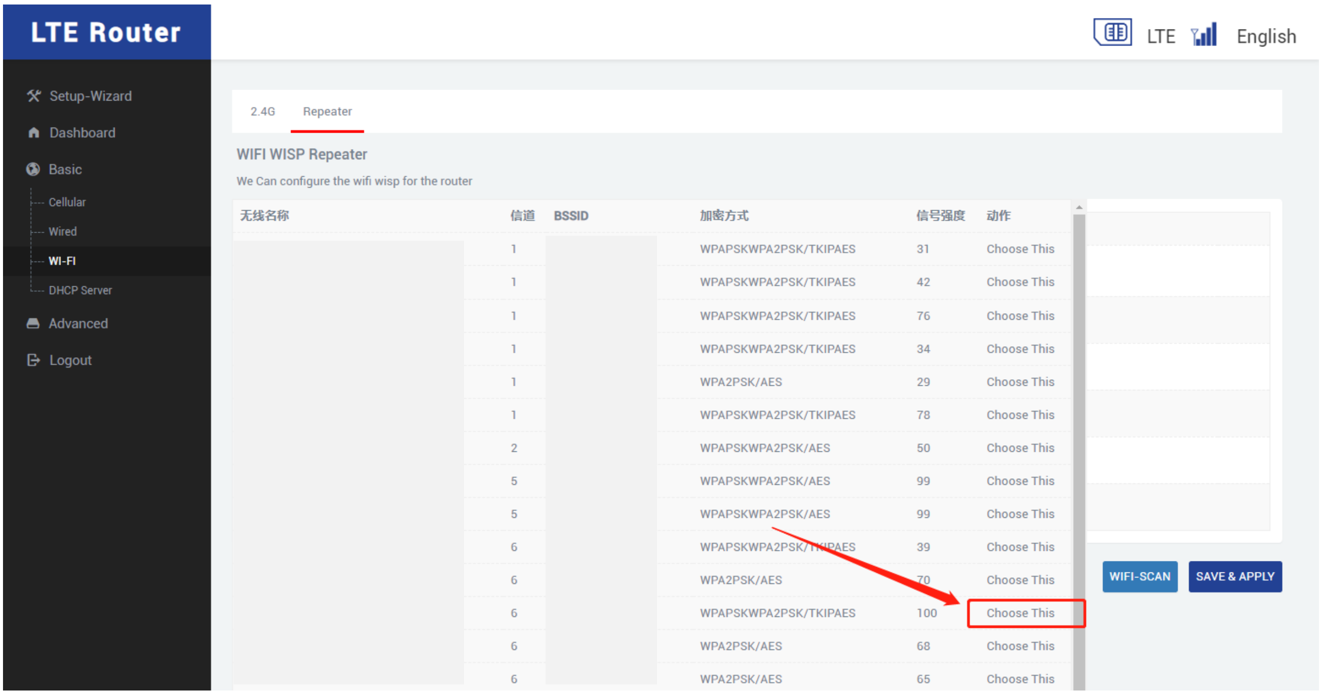

LTE Router
LTE
English
Setup-Wizard
Dashboard
Basic
Cellular
Wired
WI-FI
DHCP Server
Advanced
Logout
2.4G
Repeater
WIFI-SCAN
SAVE & APPLY

WIFI WISP Repeater

We Can configure the wifi wisp for the router

Repeater Status	Disconnected
Locked BSSID	○ Enable ● Disable
SSID	
BSSID	
Channel	0
Encryption Mode	Disable
Check Alive Host	

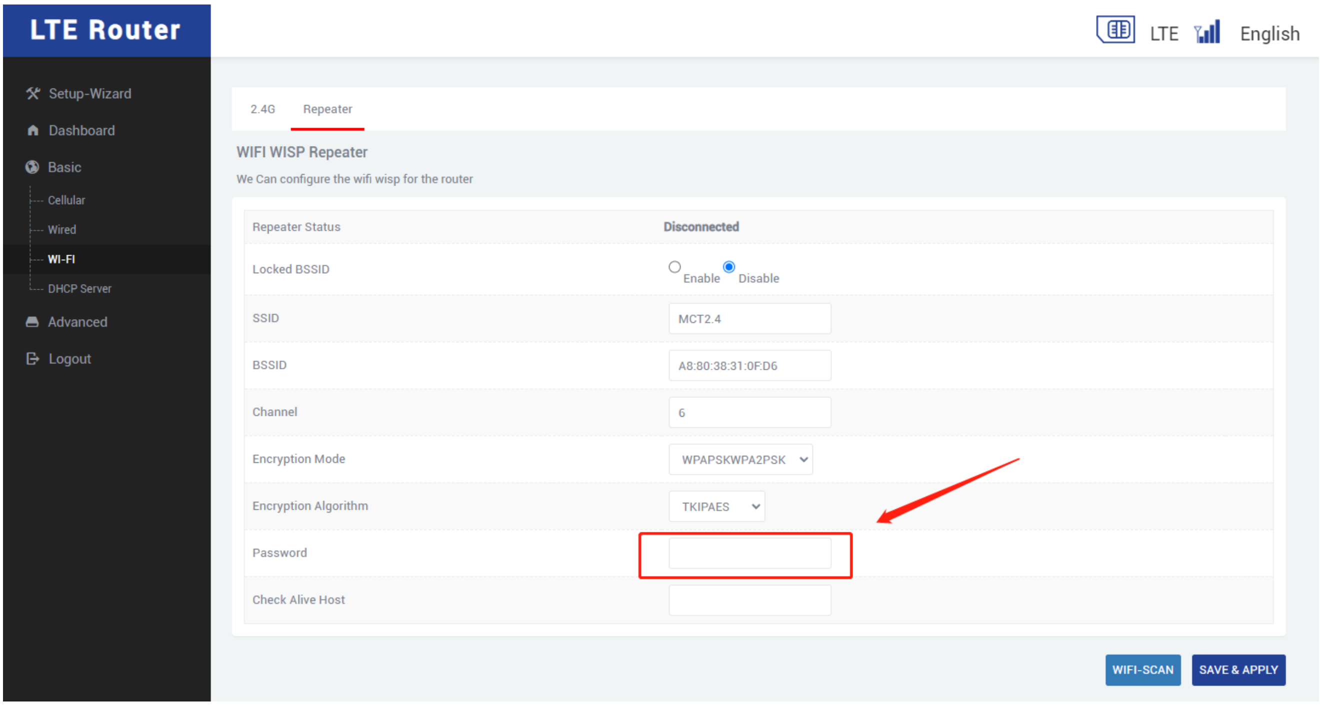
2. Select the hotspot you want to connect to, and click "Connect". The router will automatically fill in the parameters of the hotspot into the column field according. If the hotspot has a password, you need to manually fill in the password and click "Apply".


LTE Router
LTE
English
Setup-Wizard
Dashboard
Basic
Cellular
Wired
WI-FI
DHCP Server
Advanced
Logout
2.4G
Repeater
WIFI-SCAN
SAVE & APPLY

WIFI WISP Repeater

We Can configure the wifi wisp for the router

无线名称	信道	BSSID	加密方式	信号强度	动作
[redacted]	1	[redacted]	WPAPSKWPA2PSK/TKIPAES	31	Choose This
[redacted]	1	[redacted]	WPAPSKWPA2PSK/TKIPAES	42	Choose This
[redacted]	1	[redacted]	WPAPSKWPA2PSK/TKIPAES	76	Choose This
[redacted]	1	[redacted]	WPAPSKWPA2PSK/TKIPAES	34	Choose This
[redacted]	1	[redacted]	WPA2PSK/AES	29	Choose This
[redacted]	1	[redacted]	WPAPSKWPA2PSK/TKIPAES	78	Choose This
[redacted]	2	[redacted]	WPAPSKWPA2PSK/AES	50	Choose This
[redacted]	5	[redacted]	WPAPSKWPA2PSK/AES	99	Choose This
[redacted]	5	[redacted]	WPAPSKWPA2PSK/AES	99	Choose This
[redacted]	6	[redacted]	WPAPSKWPA2PSK/TKIPAES	39	Choose This
[redacted]	6	[redacted]	WPA2PSK/AES	70	Choose This
[redacted]	6	[redacted]	WPAPSKWPA2PSK/TKIPAES	100	Choose This
[redacted]	6	[redacted]	WPA2PSK/AES	68	Choose This
[redacted]	6	[redacted]	WPA2PSK/AES	65	Choose This

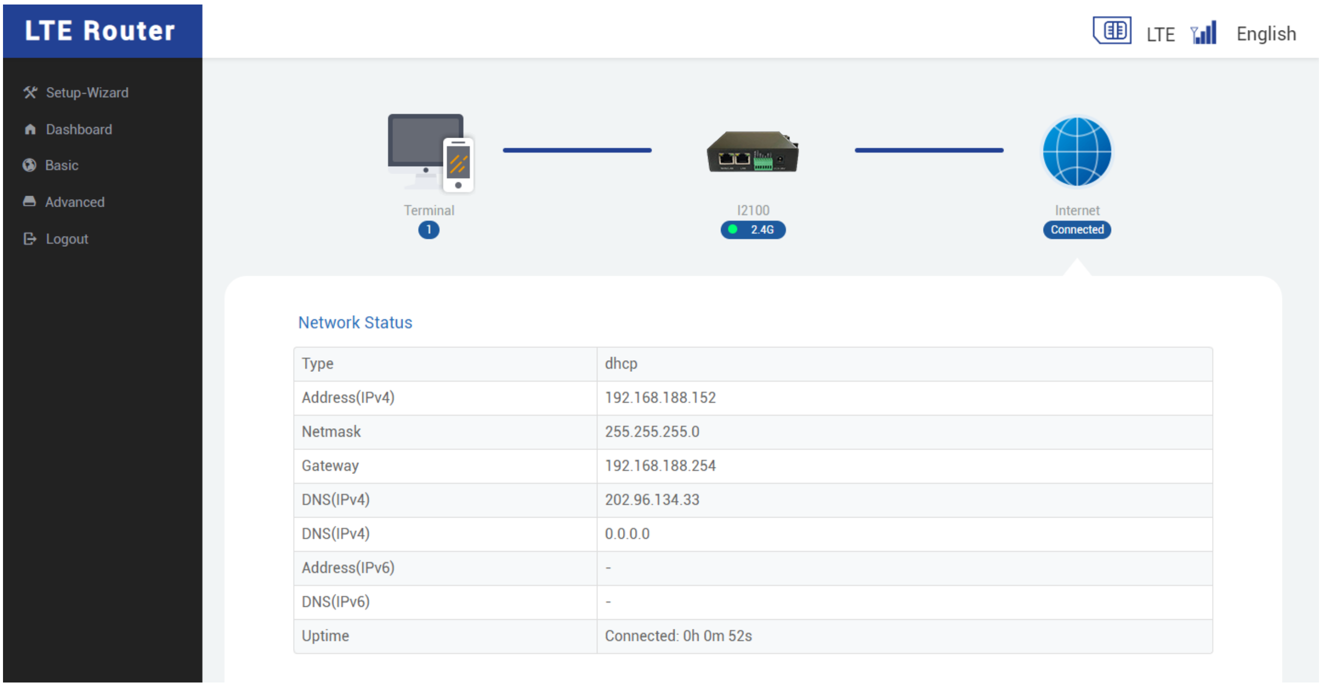

LTE Router
LTE
English
Setup-Wizard
Dashboard
Basic
Cellular
Wired
WI-FI
DHCP Server
Advanced
Logout
2.4G
Repeater
WIFI-SCAN
SAVE & APPLY

WIFI WISP Repeater

We Can configure the wifi wisp for the router

Repeater Status	**Disconnected**
Locked BSSID	○ Enable ● Disable
SSID	MCT2.4
BSSID	A8:80:38:31:0F:D6
Channel	6
Encryption Mode	WPAPSKWPA2PSK
Encryption Algorithm	TKIPAES
Password	
Check Alive Host	

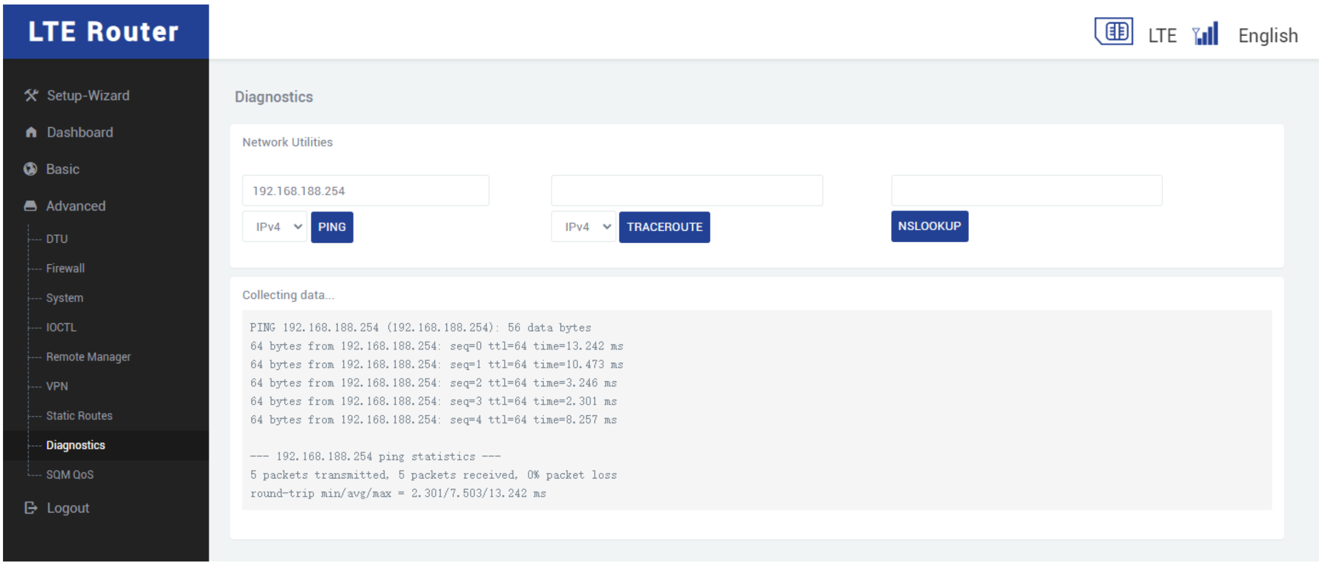
3. Click the icon 🌐 on the status page. When the router has obtained the IP address from the uplink (WIFI hotspot or Router), the relay of the router is connected normally.


LTE Router
LTE
English
Setup-Wizard
Dashboard
Basic
Advanced
Logout
Terminal
1
I2100
2.4G
Internet
Connected

Network Status

Type	dhcp
Address(IPv4)	192.168.188.152
Netmask	255.255.255.0
Gateway	192.168.188.254
DNS(IPv4)	202.96.134.33
DNS(IPv4)	0.0.0.0
Address(IPv6)	-
DNS(IPv6)	-
Uptime	Connected: 0h 0m 52s

4. Perform packet ping to the gateway address of the uplink network via the network diagnostics page to determine whether or not the connection is normal


LTE Router
LTE
English
Setup-Wizard
Dashboard
Basic
Advanced
DTU
Firewall
System
IOCTL
Remote Manager
VPN
Static Routes
Diagnostics
SQM QoS
Logout
Diagnostics
Network Utilities
IPv4
PING
IPv4
TRACEROUTE
NSLOOKUP

192.168.188.254

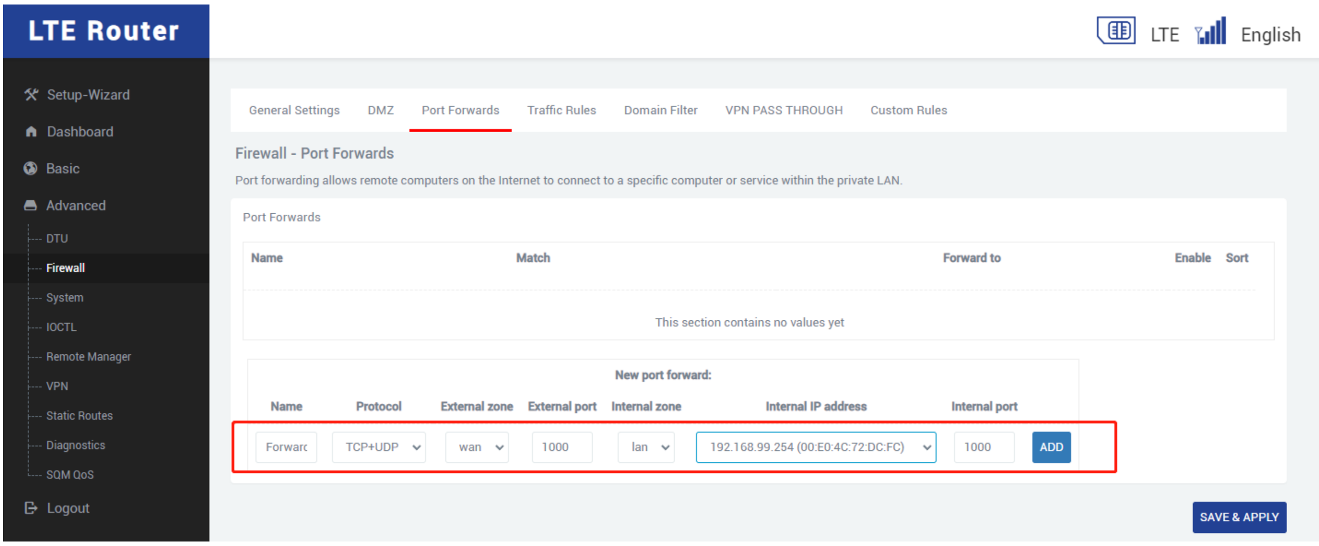
Collecting data...

```
PING 192.168.188.254 (192.168.188.254): 56 data bytes
64 bytes from 192.168.188.254: seq=0 ttl=64 time=13.242 ms
64 bytes from 192.168.188.254: seq=1 ttl=64 time=10.473 ms
64 bytes from 192.168.188.254: seq=2 ttl=64 time=3.246 ms
64 bytes from 192.168.188.254: seq=3 ttl=64 time=2.301 ms
64 bytes from 192.168.188.254: seq=4 ttl=64 time=8.257 ms

--- 192.168.188.254 ping statistics ---
5 packets transmitted, 5 packets received, 0% packet loss
round-trip min/avg/max = 2.301/7.503/13.242 ms
```

Typical Application – Port Mapping

"Port Forwarding" can be found in the firewall page. You can map the port that needs to be translated and forwarded to the corresponding intranet IP, and click "Apply" to apply the configuration.


LTE Router
LTE
English
Setup-Wizard
Dashboard
Basic
Advanced
DTU
Firewall
System
IOCTL
Remote Manager
VPN
Static Routes
Diagnostics
SQM QoS
Logout
General Settings
DMZ
Port Forwards
Traffic Rules
Domain Filter
VPN PASS THROUGH
Custom Rules
ADD
SAVE & APPLY

Firewall - Port Forwards

Port forwarding allows remote computers on the Internet to connect to a specific computer or service within the private LAN.

Port Forwards

Name	Match	Forward to	Enable	Sort

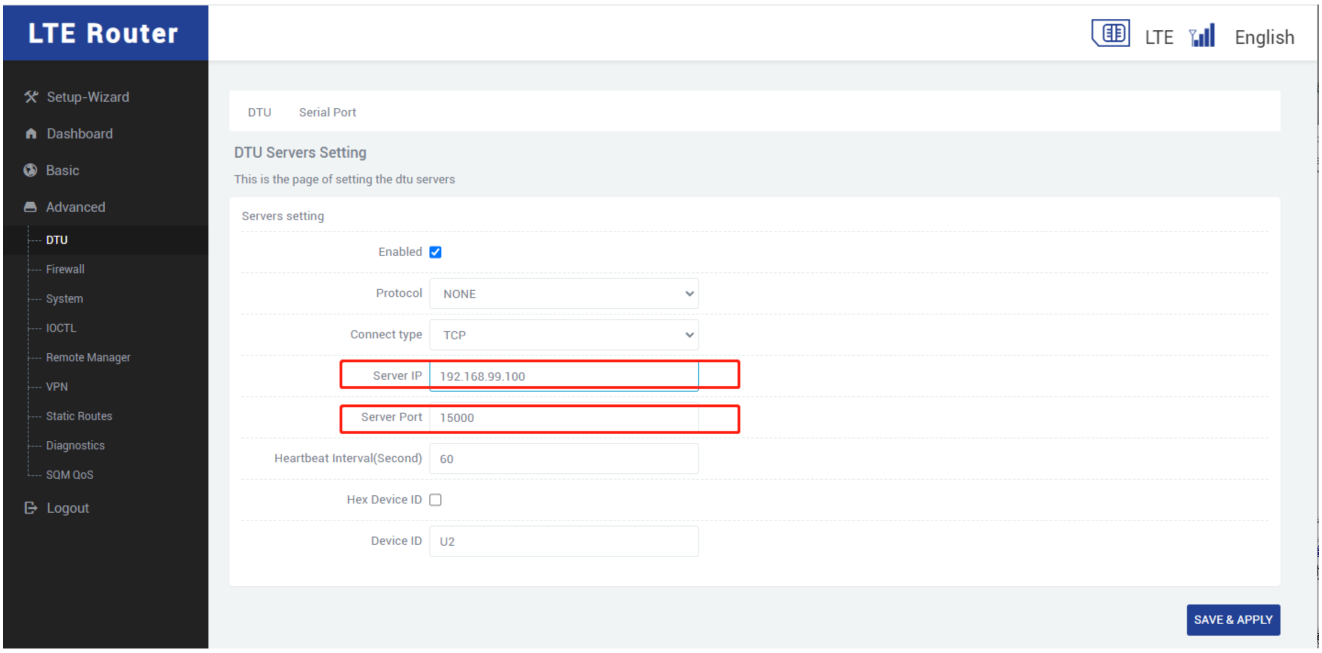
This section contains no values yet

New port forward:

Name	Protocol	External zone	External port	Internal zone	Internal IP address	Internal port
Forwarc	TCP+UDP	wan	1000	lan	192.168.99.254 (00:E0:4C:72:DC:FC)	1000

Typical Application – Serial Passthrough

1. First setup the TCP server, note down the address and port number of the server.
2. Configure the DTU server settings located in the DTU menu of the router. Set the server address and port number to the IP address and port number of the TCP server, and then click Connect, the status is 1 means the connection is successful.


LTE Router
LTE
English
Setup-Wizard
Dashboard
Basic
Advanced
DTU
Firewall
System
IOCTL
Remote Manager
VPN
Static Routes
Diagnostics
SQM QoS
Logout
DTU
Serial Port
SAVE & APPLY

DTU Servers Setting

This is the page of setting the dtu servers

Servers setting

Enabled ☑

Protocol NONE

Connect type TCP

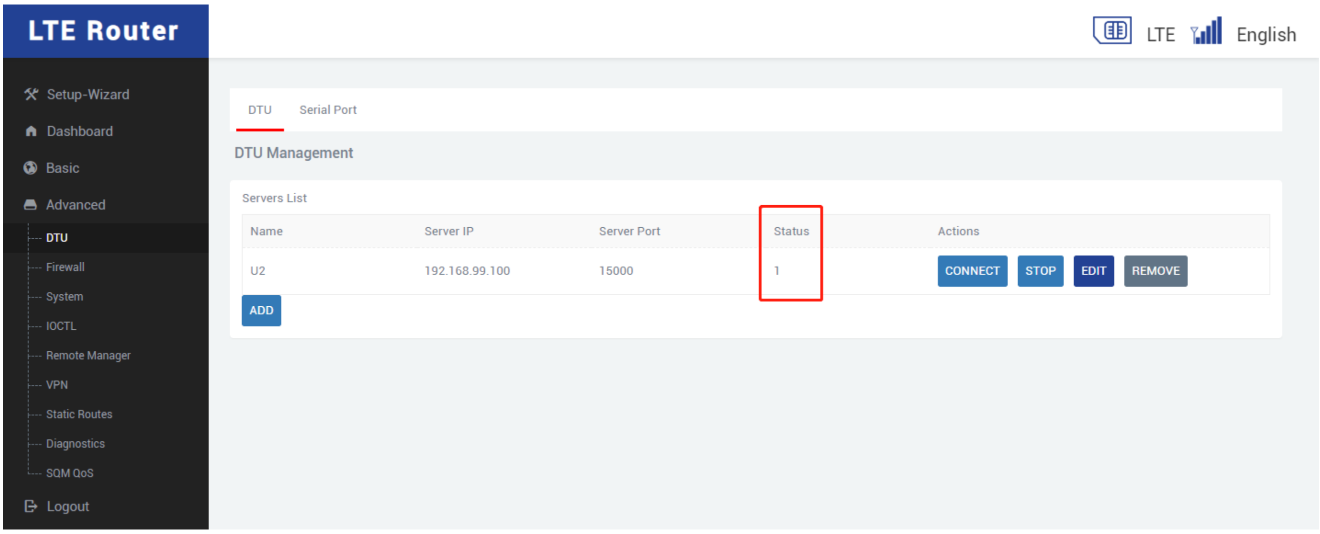
Server IP 192.168.99.100

Server Port 15000

Heartbeat Interval(Second) 60

Hex Device ID ☐

Device ID U2


LTE Router
LTE
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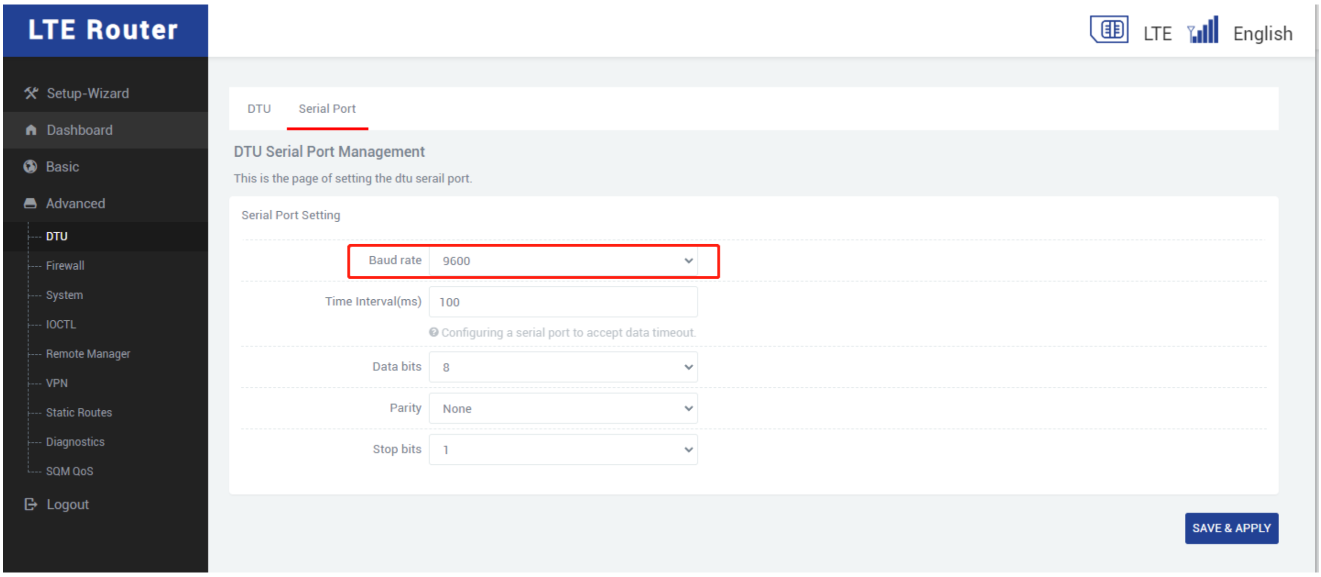
Setup-Wizard
Dashboard
Basic
Advanced
DTU
Firewall
System
IOCTL
Remote Manager
VPN
Static Routes
Diagnostics
SQM QoS
Logout
DTU
Serial Port
ADD

DTU Management

Servers List

Name	Server IP	Server Port	Status	Actions
U2	192.168.99.100	15000	1	CONNECT STOP EDIT REMOVE

3. According to the baud rate of the serial port to set the baud rate information. Connect the RS485 connection to the RS485 serial port.


LTE Router
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Firewall
System
IOCTL
Remote Manager
VPN
Static Routes
Diagnostics
SQM QoS
Logout
DTU
Serial Port
SAVE & APPLY

DTU Serial Port Management

This is the page of setting the dtu serail port.

Serial Port Setting

Baud rate: 9600

Time Interval(ms): 100

Configuring a serial port to accept data timeout.

Data bits: 8

Parity: None

Stop bits: 1

4. After that, you can send data to each other between the server and the serial port.