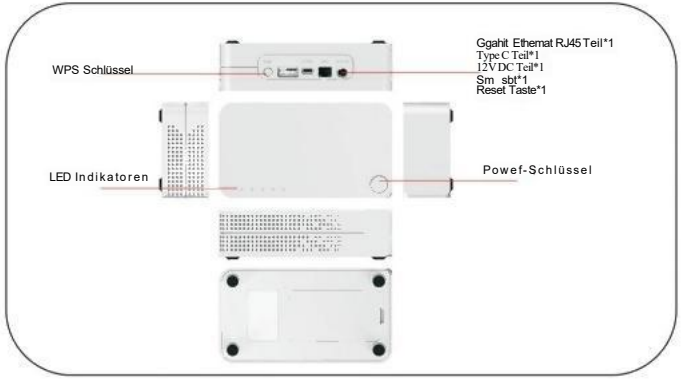
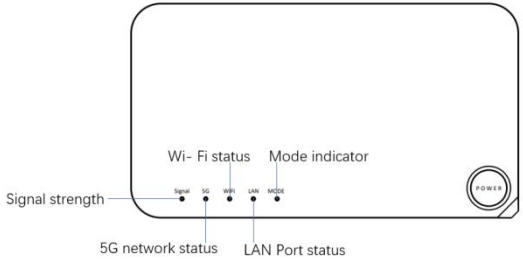
5G NR Router Benutzerhandbuch





Schnittstellen	LAN-Anschluss		RJ45*1.1Gbps
	Micro-SIM-Steckplatz		4FF/Nano SIM
	Reset Schlüssel		Für einen Hardware-Reset
	USB-Anschluss		Zu Debugging-Zwecken.
	Stromanschluss		12V/2A
Indikatoren	Signal	Grün	Gutes Signal,RSRP>=-105
		Blau	Mittleres Signal,RSRP<-105
		Rot	Kein Service
	5G	Grün	5G-Netz ist verbunden
		AUS	5G-Netz ist getrennt
	WiFi	Grün	WiFi auf
		AUS	WiFi aus
		Blitz	WPS funktioniert
	LAN	Grün	LAN-Anschluss funktioniert
		AUS	LAN-Anschluss funktioniert nicht
	Modus	Grün	Einschalten über Netzteil
		AUS	Ausschalten
		Grüner Blitz	FOTA
Mechanisch	Dimension 163*90*45mm		

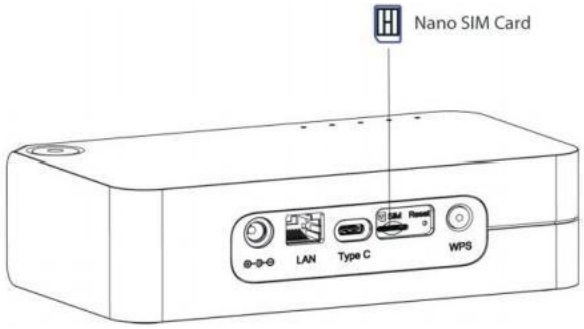
1.CPE Einrichten

Weitere Informationen zur Installation finden Sie in der Kurzanleitung.

1.1 SIM-Karte Installieren ----------

1.Make Stellen Sie sicher, dass Sie die richtige SIM-Karte verwenden: Nano-SIM (4FF).

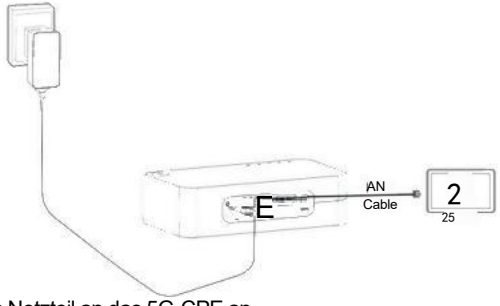
2.Legen Sie die SIM-Karte vorsichtig in die in der Abbildung unten gezeigte Richtung in das SIM-Kartenfach ein, bis sie einrastet.



Anmerkung : Wenn Sie die SIM-Karte entfernen möchten, drücken Sie bitte die SIM-Karte vorsichtig hinein, bis sie einrastet. **dann springt die Karte automatisch heraus.**

1.2 Verbindung ----------

Bitte schließen Sie das Gerät an und installieren Sie es, wie in der Abbildung unten gezeigt.



1.Schließen Sie das Netzteil an das 5G-CPE an.

2.Drücken Sie die Ein-/Aus-Taste, um das Gerät einzuschalten, 5G CPE initialisiert den Startvorgang.

3.Wenn die Anzeige aufhört zu blinken, schließt das 5G-CPE die Initialisierung ab und beginnt zu arbeiten.

2.Login WEB GUI

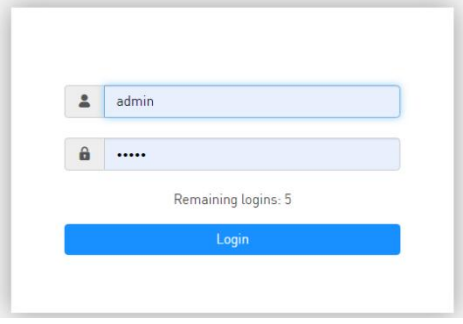
2.1 Login

Um sich bei der Web-GUI anzumelden, führen Sie bitte die folgenden Schritte aus:

1.Verbinden Sie das Gerät entweder über ein Ethernet-Kabel oder WiFi mit dem Laptop

2.Öffnen Sie den Browser und geben Sie 192.168.8.1 oder http://my.5g.device/ ein.

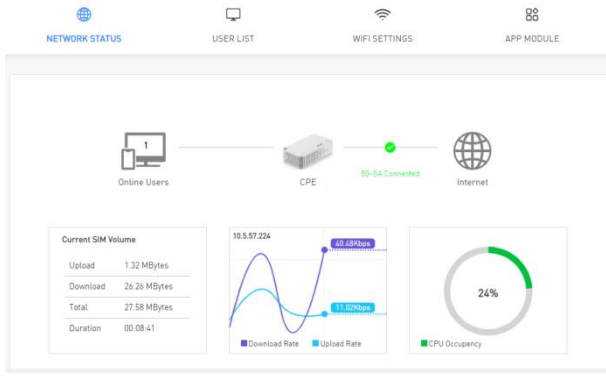
3.Geben Sie Benutzername und Passwort ein (admin/admin).



2.2 Web Anleitung

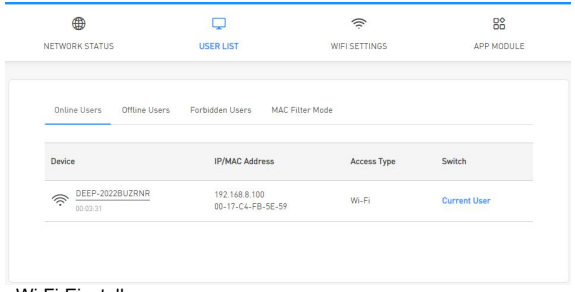
2.2.1Home page

Nach der Anmeldung springt Web GUI dann zur Startseite.



2.2.2Seite Benutzerliste

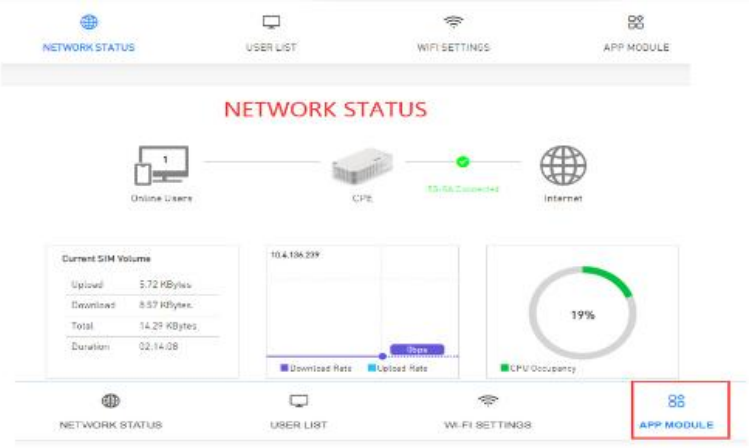
Es werden aktuelle Benutzerinformationen angezeigt. Sie können die schwarze oder weiße Liste auf der MAC-Filtermodus-Seite aktivieren und verbotene/erlaubte Benutzer hinzufügen/löschen.

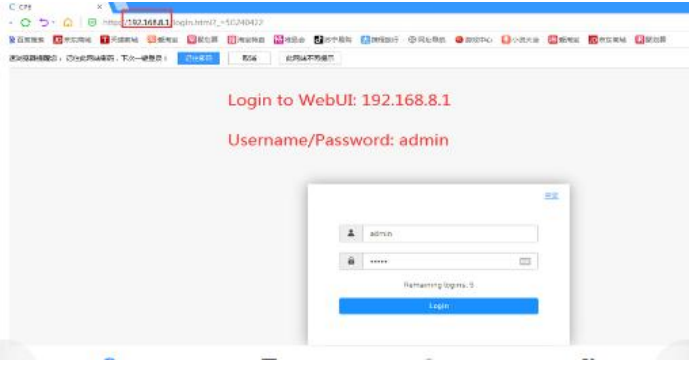


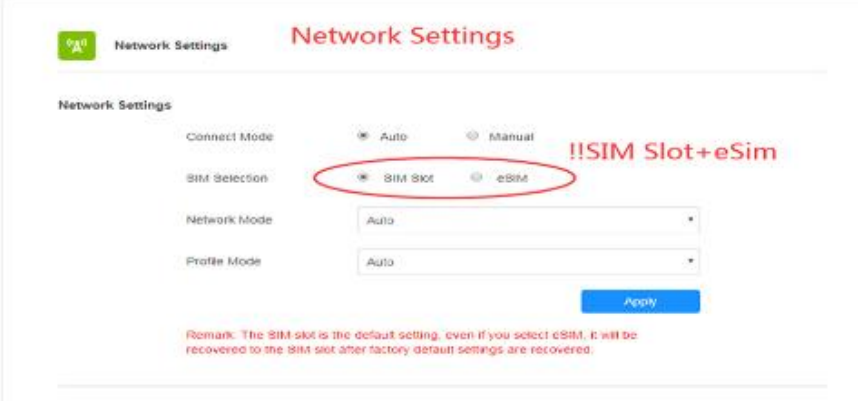
2.2.3Seite Wi-Fi-Einstellungen

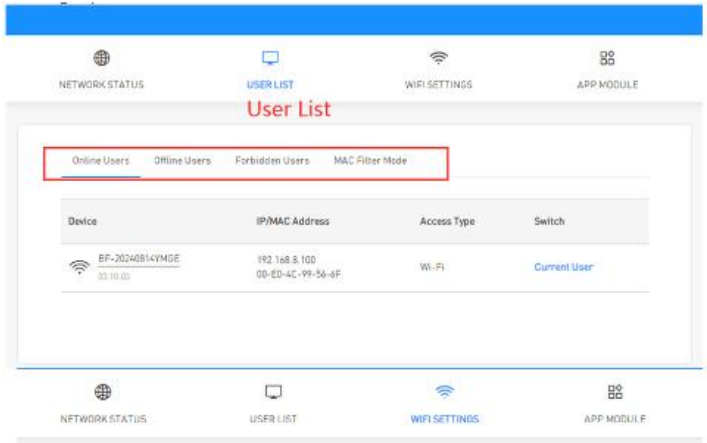
Sie können Wi-Fi-Parameter ändern, z. B. Wi-Fi-Band, Wi-Fi-SSID, Wi-Fi-Schlüssel, Kanal, Kanalbandbreite und so weiter.

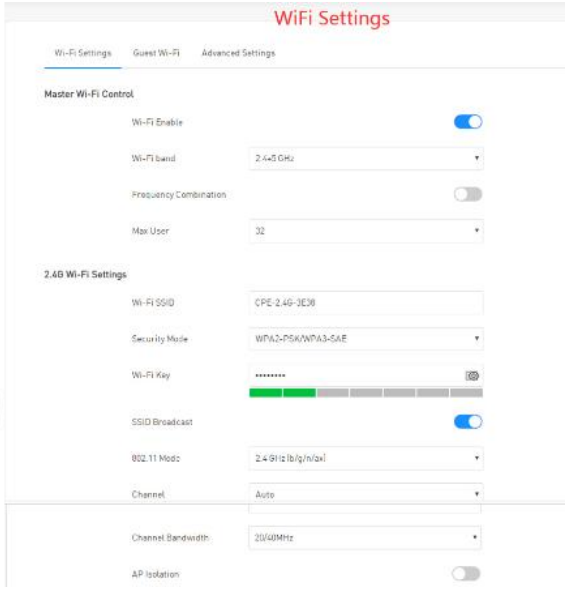
Step 1: Connect to the WiFi
Default Password: 80380537
1102kuwfi
JXKJ
geekoto
E6B8B8E4B990E59CBA
CPE-2.4G-3E38
DIRECT-NEOS-20221110ORCBmsMT
ChinaNet-77Us
Connect to a Network
Security key:
80380537
Hide characters
OK
Cancel


NETWORK STATUS
USER LIST
WIFI SETTINGS
APP MODULE
NETWORK STATUS
Online Users
CPE
Internet
Current SIM Volume
Upload
Download
Total
Duration
19%
CPU Occupancy
NETWORK STATUS
USER LIST
WI-FI SETTINGS
APP MODULE

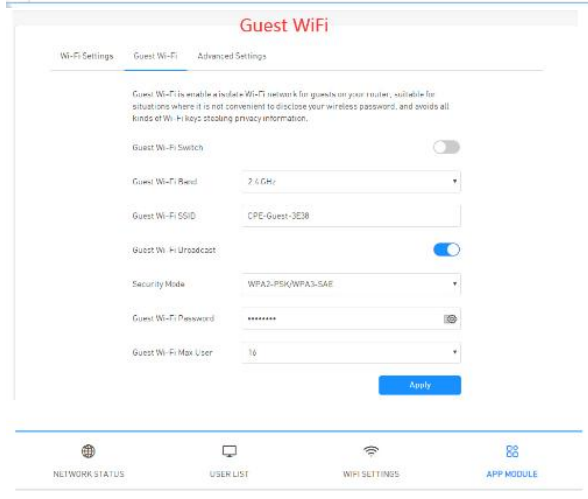

Login to WebUI: 192.168.8.1
Username/Password: admin
admin
Login


Network Settings
Network Settings
Network Settings
Connect Mode
Auto
Manual
!!SIM Slot+eSim
SIM Selection
SIM Slot
eSIM
Network Mode
Auto
Profile Mode
Auto
Apply
Remark: The SIM slot is the default setting, even if you select eSIM, it will be recovered to the SIM slot after factory default settings are recovered.


NETWORK STATUS
USER LIST
WIFI SETTINGS
APP MODULE
User List
Online Users
Offline Users
Forbidden Users
MAC Filter Mode
Device
IP/MAC Address
Access Type
Switch
EF-20240814YMGE
33.10.03
192.168.8.100
00-ED-4C-99-56-6F
Wi-Fi
Current User
NETWORK STATUS
USER LIST
WIFI SETTINGS
APP MODULE

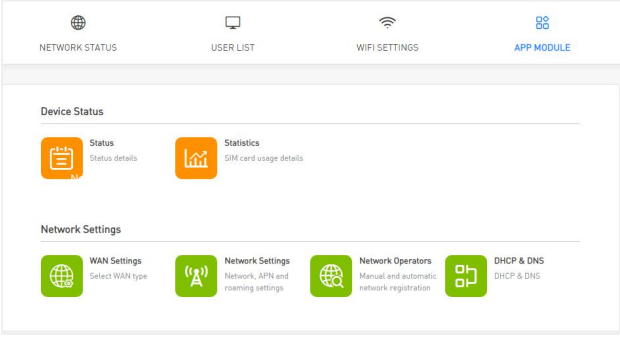

WiFi Settings
Wi-Fi Settings
Guest Wi-Fi
Advanced Settings
Master Wi-Fi Control
Wi-Fi Enable
Wi-Fi band
2.4+5 GHz
Frequency Combination
Max User
32
2.4G Wi-Fi Settings
Wi-Fi SSID
CPE-2.4G-3E38
Security Mode
WPA2-PSK/WPA3-SAE
Wi-Fi Key
SSID Broadcast
802.11 Mode
2.4GHz (b/g/n/ax)
Channel
Auto
Channel Bandwidth
20/40MHz
AP Isolation

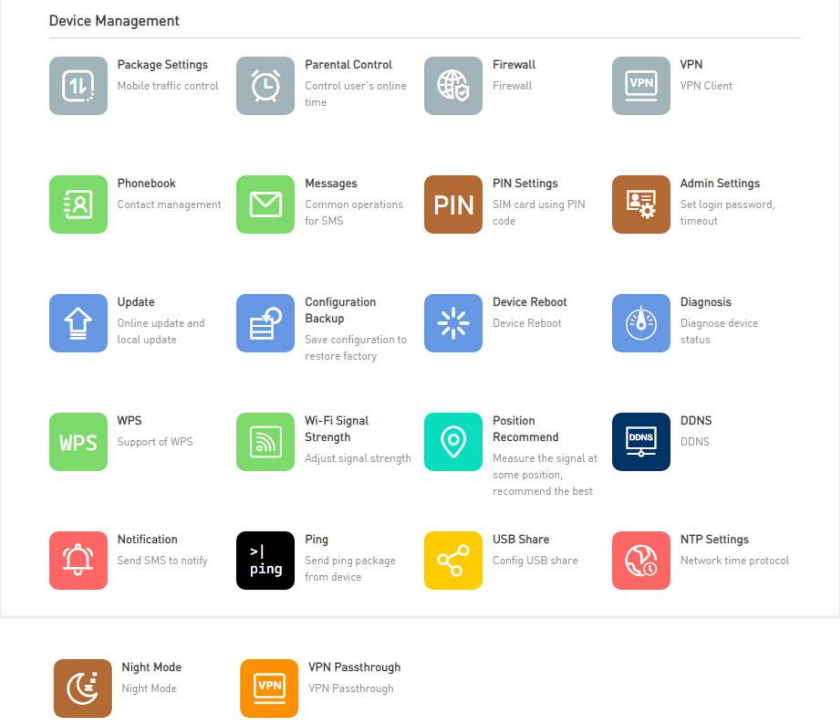
5G WiFi Settings
5G Wi-Fi Settings
Wi-Fi SSID
CPE-5G-3E38
Security Mode
WPA2-PSK/WPA3-SAE
Wi-Fi Password
SSID Broadcast
802.11 Mode
5 GHz (a/n/ac/ax)
Channel
Auto
Channel Bandwidth
20/40/80 MHz
AP Isolation
Apply


Guest WiFi
Wi-Fi Settings
Guest Wi-Fi
Advanced Settings
Guest Wi-Fi Switch
Guest Wi-Fi Band
2.4 GHz
Guest Wi-Fi SSID
CPE-Guest-3E38
Guest Wi-Fi Broadcast
Security Mode
WPA2-PSK/WPA3-SAE
Guest Wi-Fi Password
Guest Wi-Fi Max User
16
Apply
NETWORK STATUS
USER LIST
WIFI SETTINGS
APP MODULE

2.2.4Seite des APP-Moduls

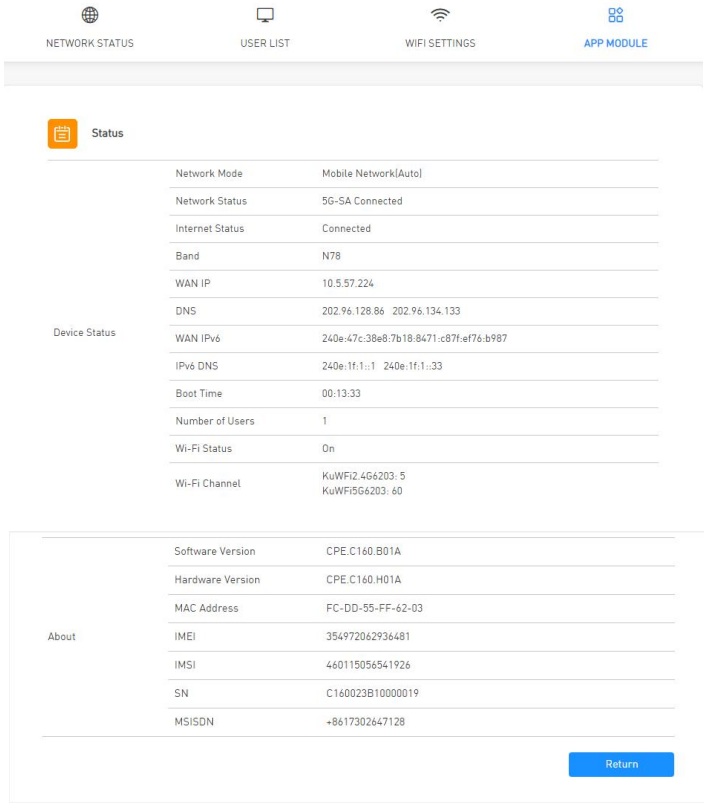
Es handelt sich um eine Anleitungsseite, auf der der Benutzer den Gerätestatus überprüfen und die Geräteeinstellungen über die Elemente dieser Seite konfigurieren kann.





2.2.5 Seite Status

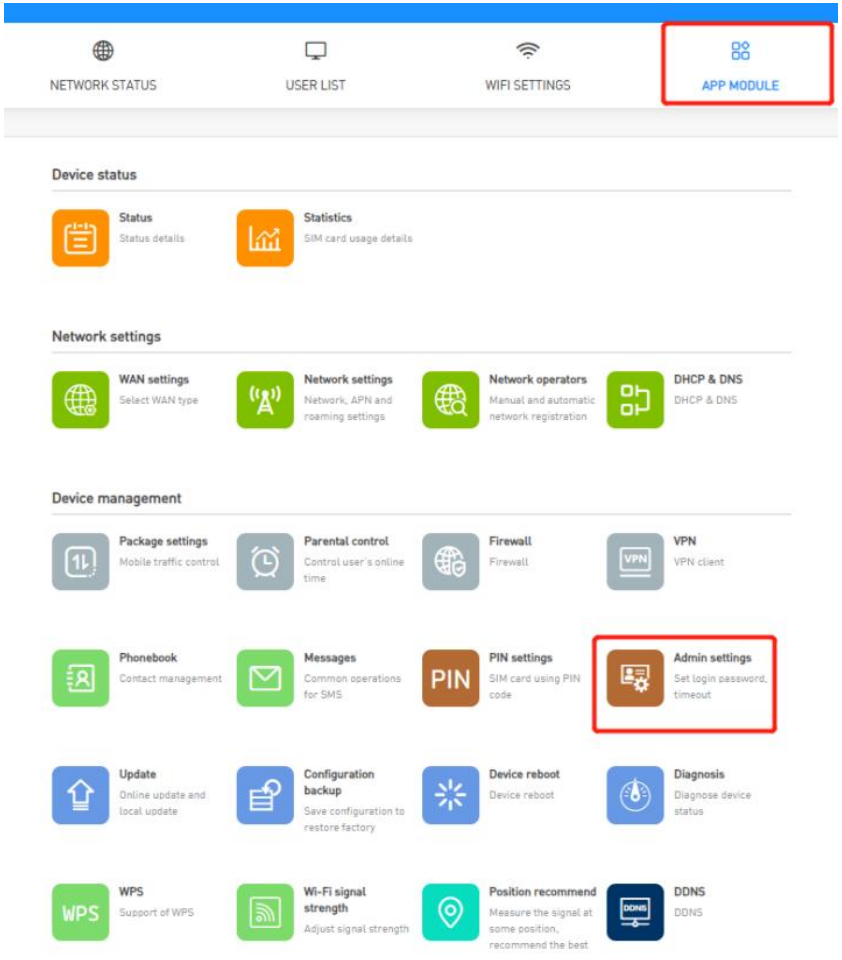
Melden Sie sich bei der Web-GUI an und gehen Sie dann auf die Seite APP-MODUL>Status, auf der wir den Verbindungsstatus des Geräts,WAN IP,DNS und die Startzeit abrufen können..... von dieser Seite



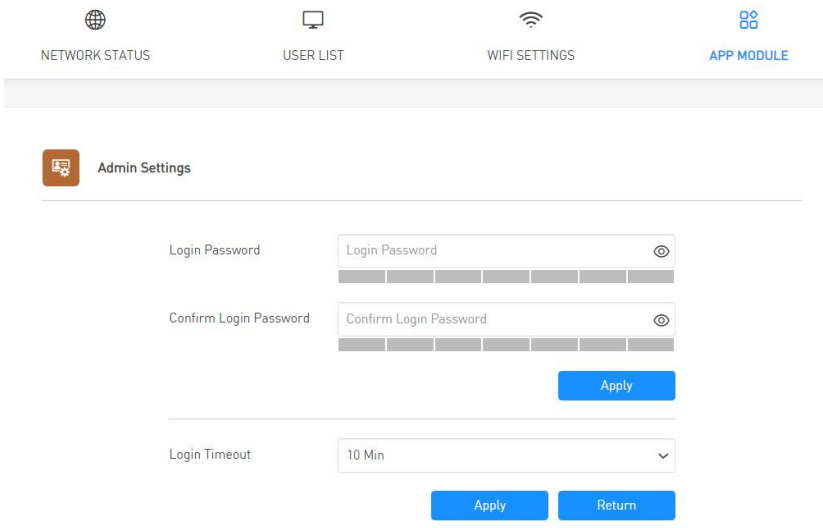
2.3 Login-Passwort ändern ----------

Um das Login-Passwort zu ändern, gehen Sie bitte wie folgt vor:

1.Gehen Sie zu APP-MODUL -> Admin-Einstellungen.



2.Geben Sie das neue Passwort ein und bestätigen Sie es, dann klicken Sie auf "Übernehmen", um wirksam zu werden.

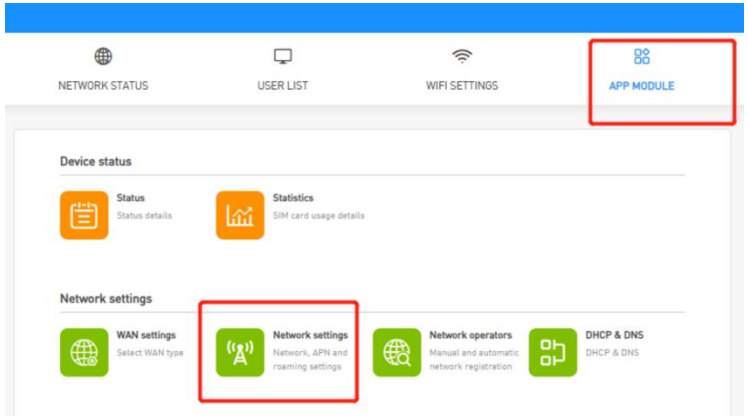


2.4 Netzwerkeinstellungen

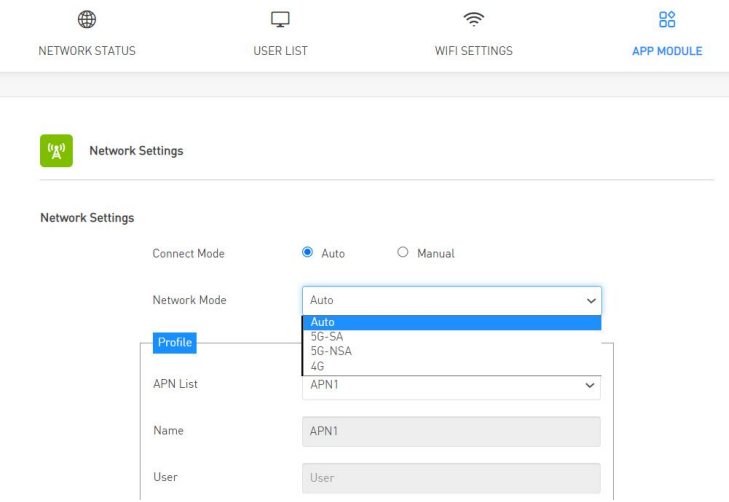
2.4.1Netzwerk-Modus

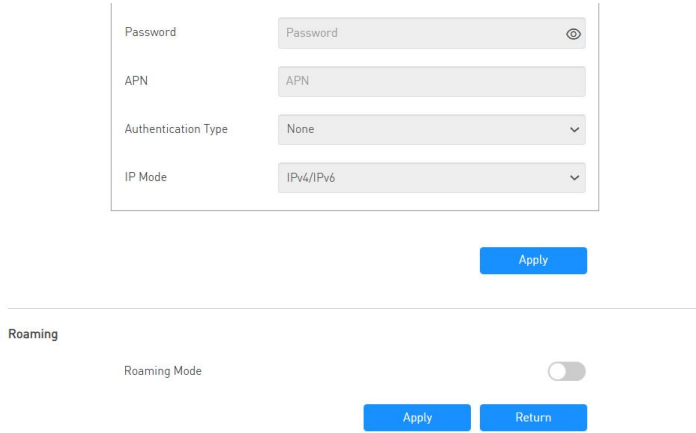
Das Gerät ermöglicht es dem Benutzer, den Netzwerkmodus zu ändern, z. B. 5G-SA, 5G-NSA, nur 4G, nur 3G. Um den Netzwerkmodus zu ändern, führen Sie bitte die folgenden Schritte aus:

1.Gehen Sie zu APP-MODUL->Netzwerkeinstellungen..



2.Wählen Sie den Netzwerkmodus aus der Dropdown-Liste aus.

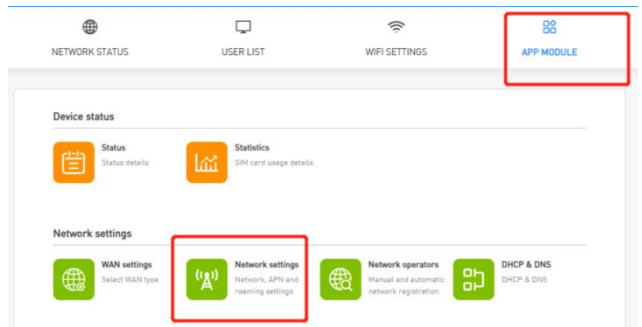




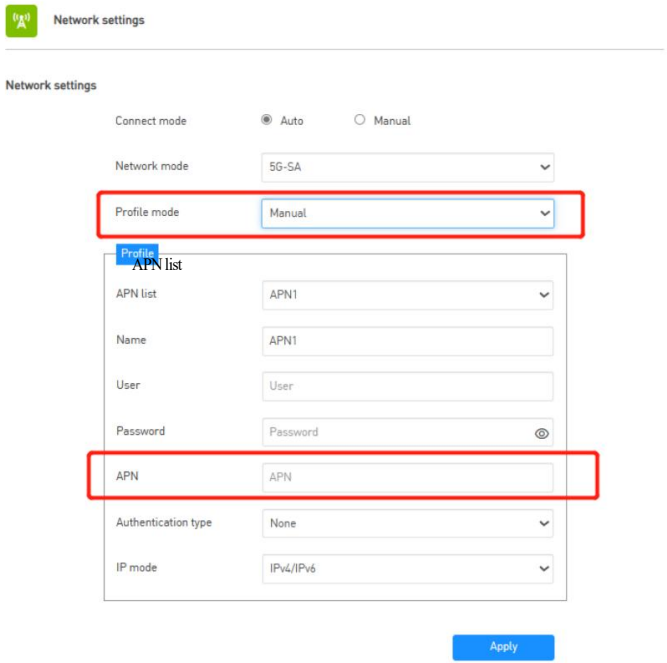
2.4.2 APN Einstellungen

Um den APN manuell zu ändern, führen Sie bitte die folgenden Schritte aus:

1.Gehen Sie zu APP-MODUL >Netzwerkeinstellungen.



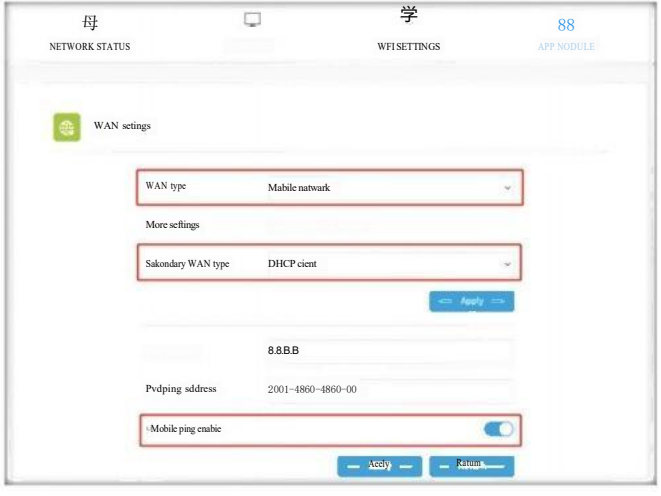
2.Ändern Sie den Profilmodus in manuell und geben Sie dann APN oder andere Parameter ein, die Sie benötigen. Klicken Sie auf "Übernehmen", um wirksam zu werden. Wenn Sie mehr unterschiedlicheAPN festlegen möchten, können Sie aus der APN-Liste auswählen und Parameter eingeben.



2.5 WAN-Einstellungen

Wenn Sie WAN-Kabel/PPPoE/WiFi Extender verwenden möchten, können Sie zu den APP-Modul->WAN-Einstellungen gehen, um den WAN-Typ aus der Dropdown-Liste auszuwählen..

CPE also support secondary WAN type,mobile ping also should be enabled.When main WAN type has no network service,device will switch to secondary WAN type automatically.If WAN type has network service,device will switch back to main WAN type automatically.



2.6 Position recommend

Please login Web UI,go to APP Module->use position recommend function for helping you to decide location selection.Measure the signal at some position,recommend the best.

3.Firmware Upgrading

There are 2 methods to upgrade the device:

1.FOTA-To upgrade the device over the air.Please keep the device power on and ensure it has internet connectivity.

2.Local Upgrade-To upgrade the firmware that downloaded to local.

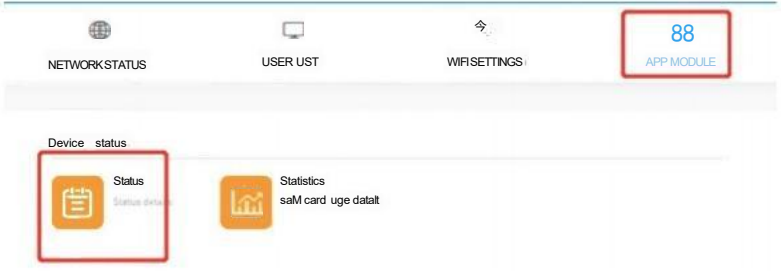
3.1 Preparation for FOTA

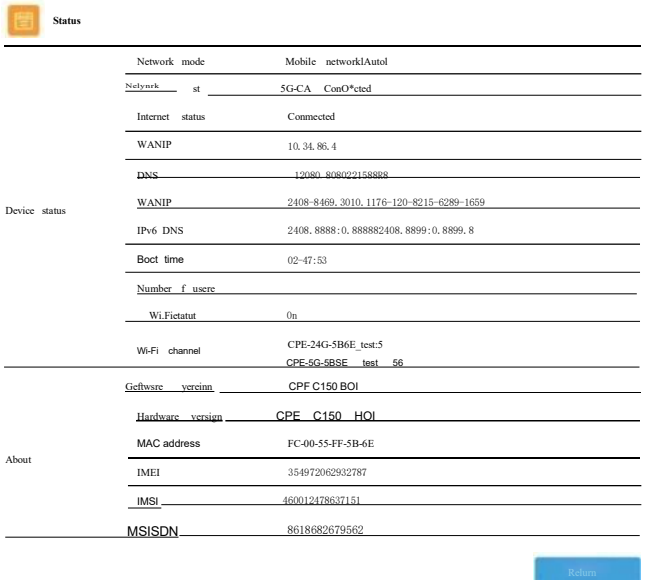
Please share below information of the device to us for enabling the FOTA:

1.IMEI of the device.

2.The firmware version of the device.

To get above information please go to APP MODULE >Status to check the firmware version and IMEI of the device.





Status

Device status	Network mode	Mobile networklAutol
	Nelynrk st	5G-CA ConO*cted
	Internet status	Conmected
	WANIP	10. 34. 86. 4
	DNS	12080. 808022158888
	WANIP	2408-8469. 3010. 1176-120-8215-6289-1659
	IPv6 DNS	2408. 8888:0. 888882408. 8899:0. 8899. 8
	Boct time	02-47:53
	Number f usere	
	Wi.Fietatut	0n
	Wi-Fi channel	CPE-24G-5B6E_test:5 CPE-5G-5BSE test 56
About	Geftwsre vereinn	CPF C150 BOI
	Hardware versign	CPE C150 HOI
	MAC address	FC-00-55-FF-5B-6E
	IMEI	354972062932787
	IMSI	460012478637151
	MSISDN	8618682679562

Return

3.2 About FOTA

3.2.1Auto FOTA

By default,device checks the availability of the update automatically in below scenes:

1)When device power on,and register on the network for the first time.

2)After device power on within 24 hours,device will check every 1-2 hours (It is random time).

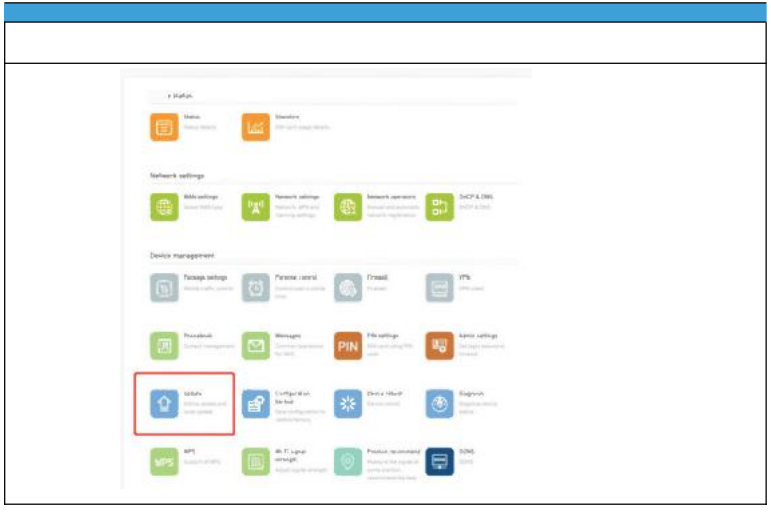
Note:For more details about auto FOTA check rule,you can check with us.

If you log in WebUI during updating,you can see below pop up message.

3.2.2Manual FOTA

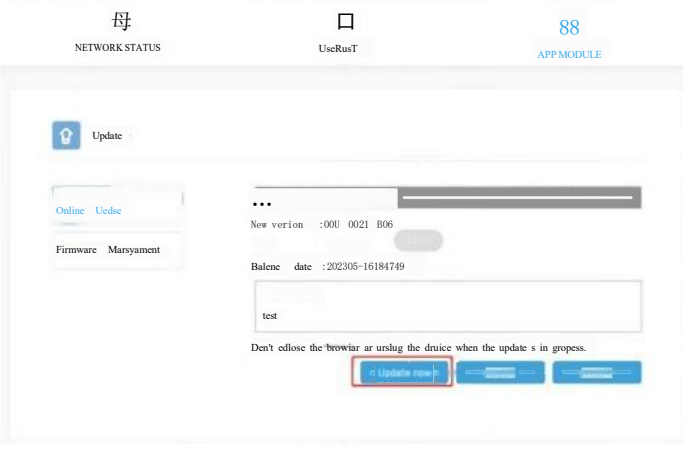
1.Login to the WebUI

2.Go to APP MODULE->Select Update'.

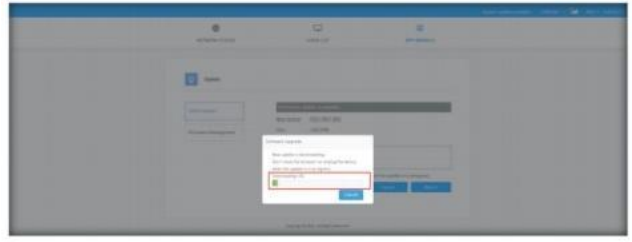


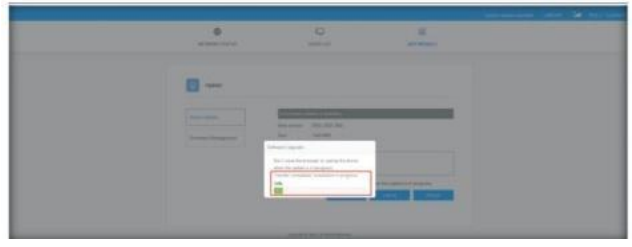
3.Select'Online Update'at side menu and click"Check new update"button.

4.You will see the availability of a new firmware,click "Update now"button.

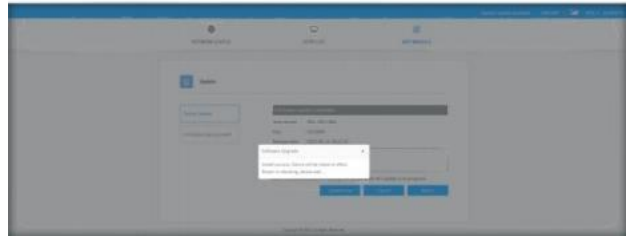


5.Wait until new firmware download completed.It will start the installation automatically.





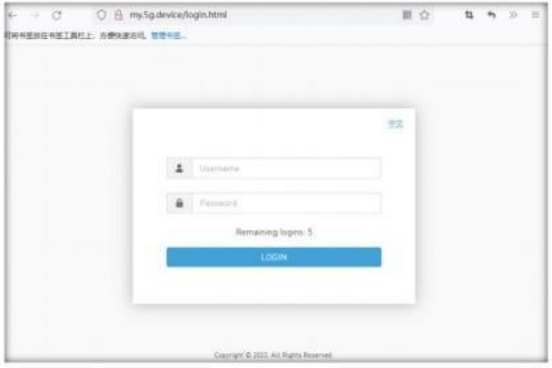
6.After installation completed,device will reboot automatically.



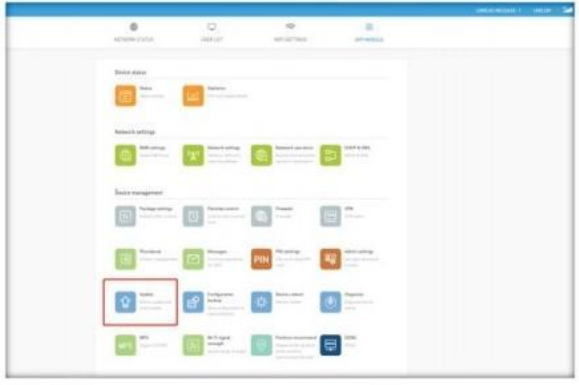
3.3 Local Upgrade

Firstly,please get the upgrading package or image file from us.

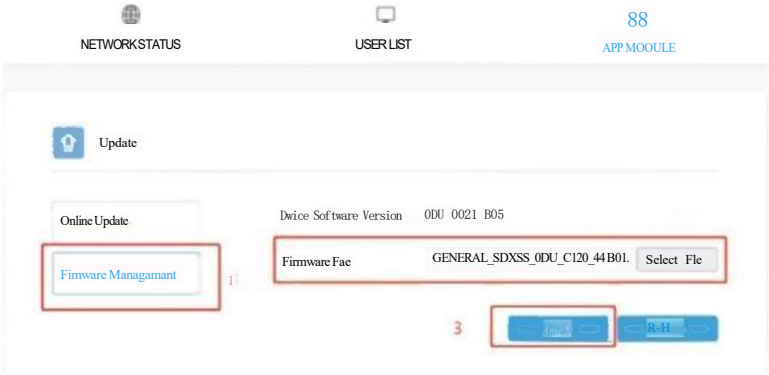
1.Login to Webui.



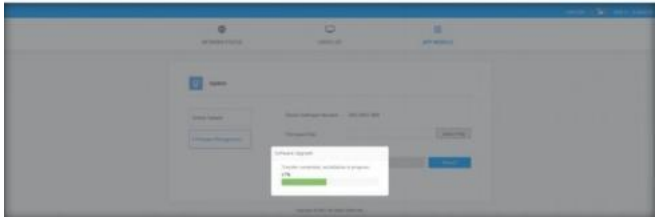
2.Go to APP MODULE>Update page.



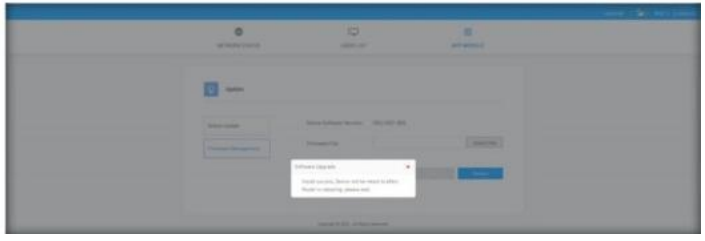
3.Choose Firmware Management->Select File->choose firmware package ->Click Apply button.



4.Device will download the upgrade file from your PC and install it automatically.



5.After installation completed,device reboots automatically.



4.Engineering Page Introduction

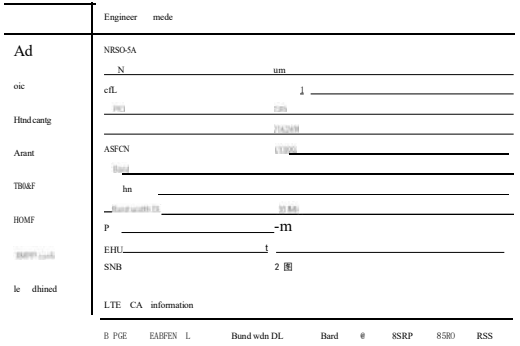
4.1 Login to the engineering page

Basic 3 steps of login engineering page:

1.Connect the device to laptop.

2.0pen browser and enter http://my.5g.device/engineering.html.

3.Input engineering page username &password (superadmin/superadmin).



4.2 Engineering page

4.2.1Engineer Mode Page

The page shows network parameters and CAinformation,such as:

PLMN:Public Land Mobile Network

CELL_ID:same as GCI:Global-Cell ID

PCI:Physical Cell Identities

TAC:Tracking Area Code

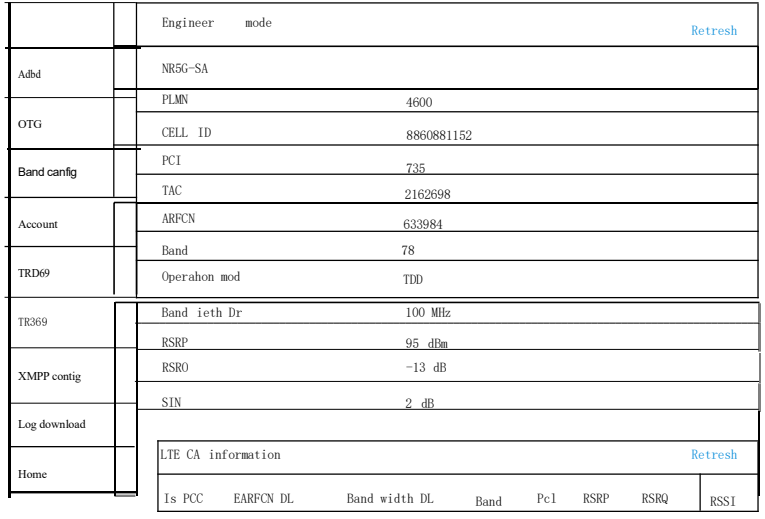
ARFCN:Absolute Radio Frequency Channel Number

BAND:Band Number

RSRP:Reference Signal Receiving Power

RSRQ:Reference Signal Receiving Quality

SINR:Signal to Interference plus Noise Ratio



4.2.2Adbd

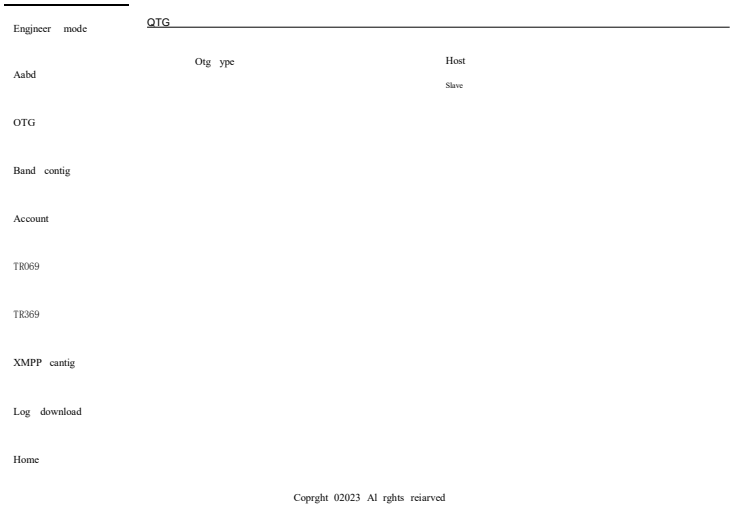
Here you can enable device's adbd server,enabling adbd is to get the access to adb shell of the device.And you will need a password to enable adbd,please share the magicnumber shown on the page to us,we will calculate the pass word and help you to access the shell of the deivce.

4. 2. 30TG

Here you can switch USB mode between Host and Slave,default is Host mode.

Host Mode:You can connect a USB disk and do read/write/execute/delete operation.

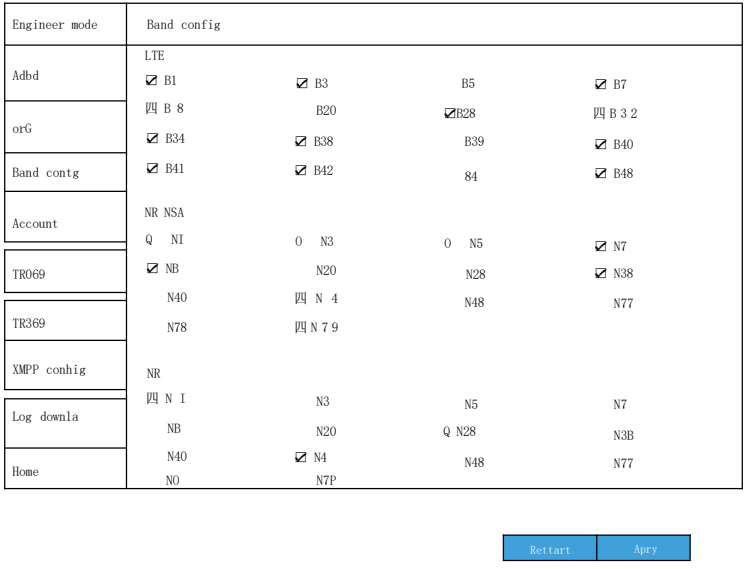
Slave mode:You can connect DUT with laptop via USB cable,there will be a RNDIS port,it is used to debug for engineers.



4.2.4Band config

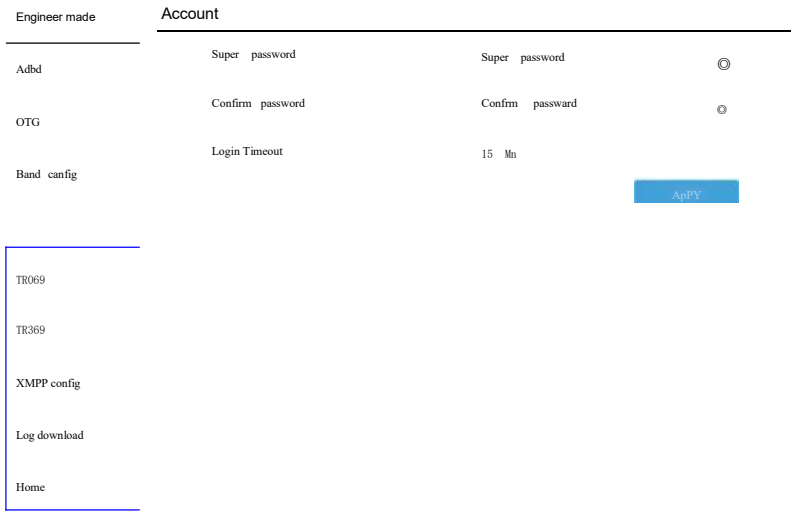
This page shows all frequency bands supported by the device.

Engineers could do the bands configuration on this page by ticking the bands required then click apply and restart to take effect.



4.2.5Account

This page can change the engineering page password and the time out time.



4. 2. 6TR069

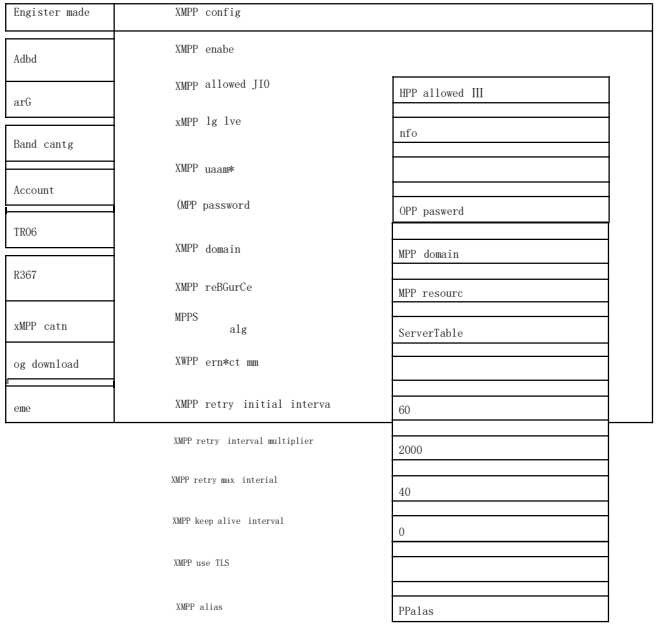
This page shows TR069 information,it is disabled by default.Here you can enable and set the TR069 parameters.For more information or customization,please contact us and share your requirement document.

4. 2. 7TR369

This page shows TR369 information,it is disabled by default.Here you can enable and set the TR369 parameters.For more information or customization,please contact us and share your requirement document.

4.2.8XMPP config

This page shows XMPP information,it is disabled by default.Here you can enable and set the XMPP parameters.For more information or customization,please contact us and share your requirement document.



4. 2. 9Log

This page to help on downloading the logs from device.You might be requested to share the log with us during debugging or troubleshooting.

4.3 Things that need to be noticed

1.In case of forgetting password,you can factory reset the device,it will be restored to superadmin/superadmin.

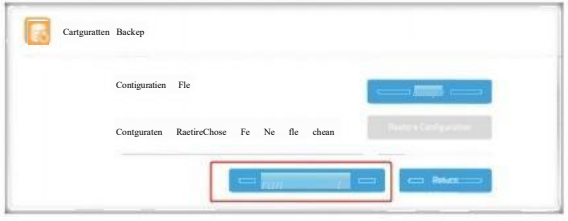
2.If you want to restore the band configuration to default,please factory reset the device.

5.FAQ

5.1 How do I restore factory settings?

·When the device is working,press the reset button for 3 seconds until the indicator starts to blink.About 60 seconds later the indicator stops blink that means device complete the reset.

·Login web UI,go to APP module>Configuration Backup in web page then click "Factory default setting".



5.2 What should I do ifl forgot the Web page login username and password?-- •

·Restore the device and use the default login username and password to try again.

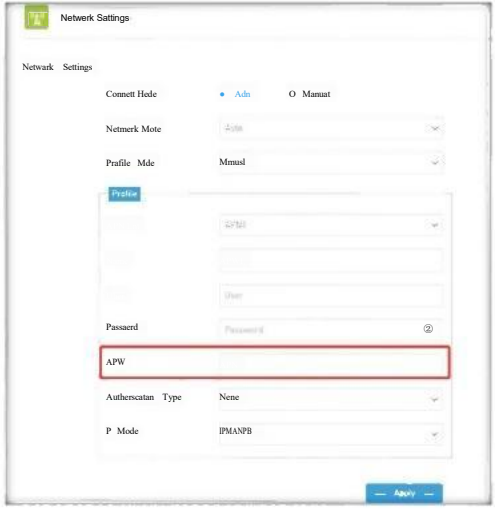
5.3 What should I do if the device can not connect to mobile network? ---

·Please check if the SIM card is inserted.

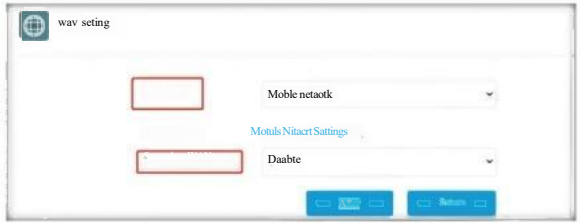
·Please check if your SIM card is out of service.

·Please login web UI then go to APP MODULE>Network settings page check connect mode,set to Auto in web page.

• **Please login web UI then go to APP MODULE>Network settings page check the APN** profile,if the profile mode set to Manual then check the APN is correct or not.If you don't **know the APN then set profile mode to auto.**



Please check if WAN type is set to mobile network in web page.

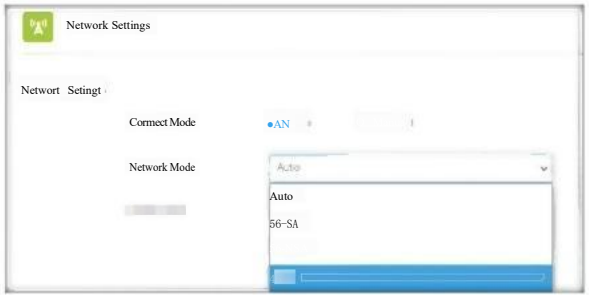


5.4 What should I do if the device can not connect to the 5G Network?

·Please check if the SIM card has got 5G service.

·Please check there is covered by 5G signal.

·Please check the network mode is not 4G only in web page



5.5 After firmware updated,the web UI is showing something wrong.Like title display interface code,logo or icon not updated in the new firmware UI. ----

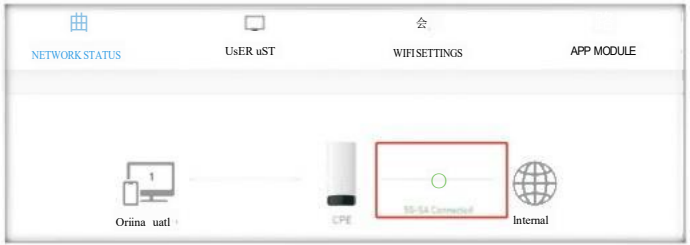
·Please Clear browsing cache of the browser and restart then check it again.

·After clear browsing cache the issue is still there,please contact device supplier for help.

5.6 How can I know the device has connected to 5G Network or not?

·If 5G Led is green that means 5G network is connected.

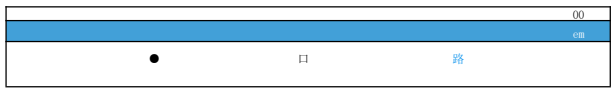
- Login web UI,go to Network Status page,5G network is displayed.



5.7 How can I know the signal strength? -------

·Check signal led indicator,green is good,please refer to led indicator in 1 Hardware Introduction.

·Login web page then check the signal icon on the upper right corner of web UI.There have five levels,if have one white bar means signal is very poor,the more white bar the signal is more bette



Note: If you want to check more signal RF infos,you need to login engineering page, please refer to 5.2.1 Engineering page.

5.8 What should I do ifl can not access the device's Web UI? ----

- Ensure your computer is connected to the device through an Ethernet cable or Wi-Fi.
- Ensure your computer is set to obtain an IP address and DNS server address

automatically.

·Clear browsing cache of the browser and restart it,or try another browser.

·If the problem persists,restore the device to its factory settings.

5.9 What should I do after set work mode to IP passthrough/Bridge but can not access to web page. ————————

·Try to re-plug the LAN cable which connect DUT and terminal device.

·Check the gateway which connected to the DUT's terminal,input that gateway in browser or input the URL:http://my.5g.device to open web page.

5.10 What should I do ifl forgot the Wi-Fi password or the login password ? ———

·Restore the device and use the default Wi-Fi password and login password to try again.

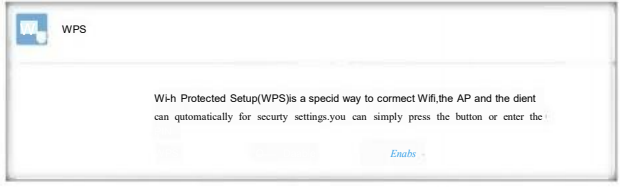
5.11 Why are the LED lights of CPE all off? ———

·Ensure DUT power on.

·Short press the WPS button.

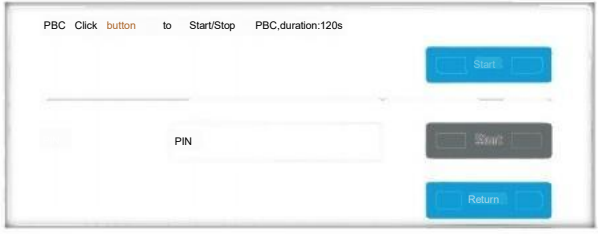
5.12 How to activate the WPS function?

- **First ensure the WPS feature enabled in web page.**



·Long press the WPS button for 3 second will activate the WPS function.

·Go to APP Module>WPS in web page to activate it.

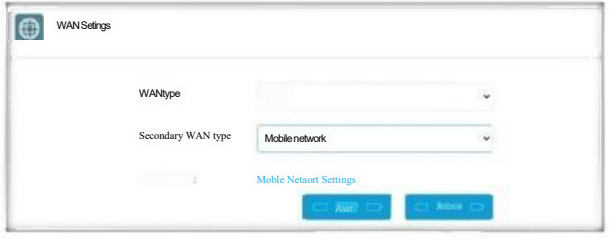


·When the WPS is activated,the WiFi LED light will blink.

5.13 How can I use WAN port to connect internet?

·First connect another router or switch with a cable through the CPE's WAN port.

·Ensure WAN type or Secondary WAN type is set to DHCP or Static IP in web page.



- Ensure the another router or switch connected internet.

5.14 Why input http://192.168.8.1 in browser can't open the web page? ------

·Ensure your computer is connected to the CPE through an Ethernet cable or WiFi.

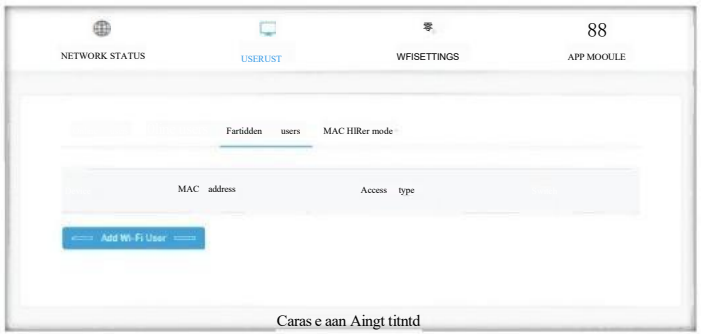
·Go to APP Module>DHCP&DNS,check the gateway which connected to the cpe's terminal and input that gateway in browser.

DHCP 的图片

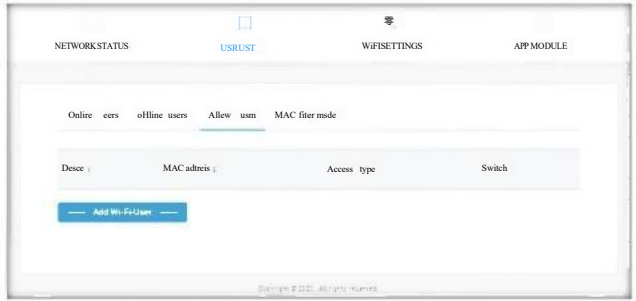
·Input the URL:http://my.5g.device to open web page.

5.15 Why the terminal can't connect to the CPE by WiFi? –

- **If black list is enabled,ensure the terminal haven't been added in forbidden users page.**



·If white list is enabled,ensure the terminal have been added in allow users page.



- **Ensure the current WiFi users is less than Max user as we set in WiFi Settings page.**

- **Ensure the current WiFi users is less than Max user as we set in web page.**

5.16 Why can't find the 2.4GHz/5GHz WiFi SSID?

- **Ensure the WiFi is enabled in WiFi setting page.**

• Ensure the WiFi broadcast is enabled.

SSID broadcast	
802.11 mode	2.4GHz|b/g/n/axl
Channel	Auto
Channel bandwidth	20/40MHz

- **Change the WiFi channel to check.**

802.11 mode	2.4GHz|b/g/n/ax]
Channe	Auto
Channel bandwidth	FTU
AP isolation	
Wi-Fi SSID	9 10 11 12 13

802.11 mode	5 GHz la/n/ac/axl
Channel	Auto
Channel bandwidth	Auto 149 153 157 161 165
AP isolatian	36 40 44 48 52[DFS] 56 [DFS| 60 IDFS| 64[DFS

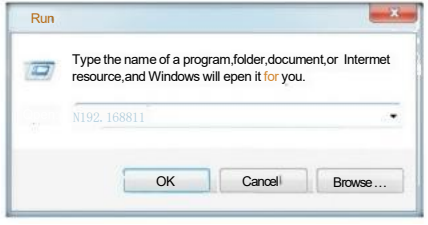
- **Change 802.11 mode to check.**

- If you can find 2.4GHz WiFi SSID,but can't find 5GHz WiFi SSID,you can ask for your terminal device operator to check if your terminal device support 5GHz WiFi.
- If issue is still persistent,please contact us to check.

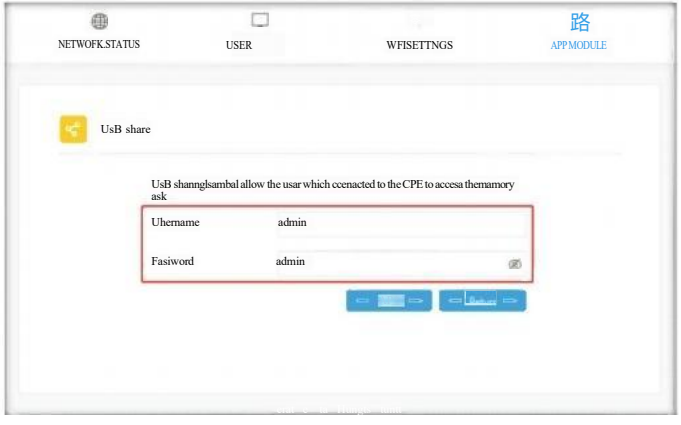
5.17 How can I access the USB flash disk or USB hard disk via USB port?-

·First ensure your computer is connected to the CPE through an Ethernet cable or Wi-Fi.

·Press Win+R to open below dialog window and input M192.168.8.1 then click OK.



·Input the username and password (default is admin/admin)to login,you can go to APP Moduel >USB share to change username and password.After login then you can access the USB disk



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5.18 How can I use external antenna?

·You can buy Ts-9 port external antenna by yourself.

·Insert external antenna into Ts-9 port on the device.

·Put the external antenna at where you want,and go to APP Module >Position recommend to check the signal at current position.

6.Acronyms and terms

Term	Definition
CA	Carrier Aggregation
ACS	Auto-Configuration Server
LTE	Long evolution technology
WiFi	Wireless Fidelity
FOTA	Firmware Over-The-Air
DUT	Device Under Test