NUQ3000M

5G ODU User Manual

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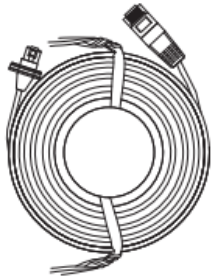
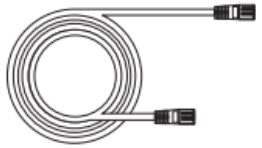
1.1 In the Box- Device and Accessories

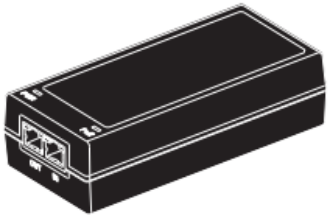
ODU Device



Flat Ethernet Cable

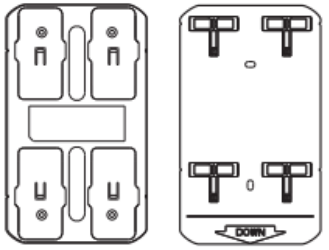


Ethernet Cable



ODU PoE Injector

Power Cord for ODU



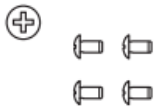
Window Mounting Kit

(Mounting Bracket)

(Gecko tape Plate)

Screw x 2

(For securing the flat cable onto the bottom side of the ODU)

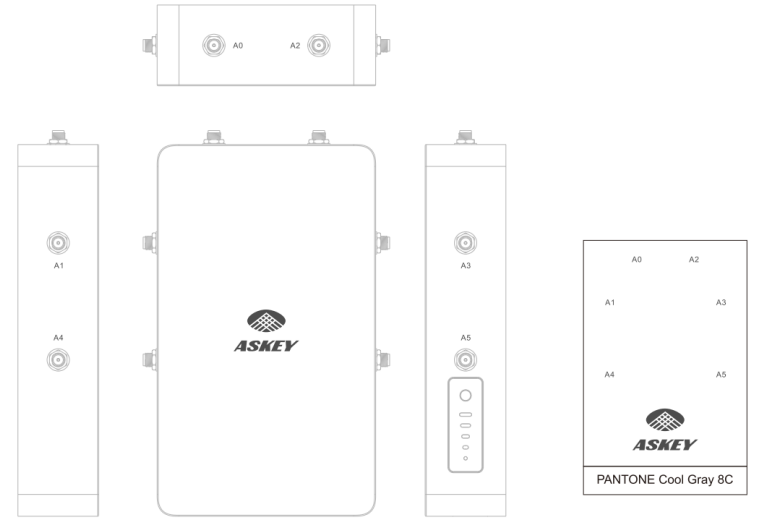


Screw x 4

(For securing the Mounting Bracket with the ODU)

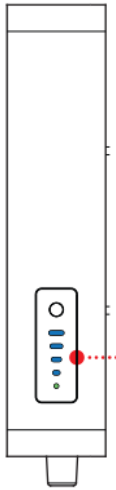
Stand

1.2 In the Box- Device

Type 1	Type 2
	

2.1 LED Indicators

INDICATOR	DESCRIPTION	POWER (LED#1)	SIGNAL STRENGTH (LED#2)	SIGNAL STRENGTH (LED#3)	SIGNAL STRENGTH (LED#4)	SIGNAL STRENGTH (LED#5)
Power	Power On \ HW Reset (press and hold for 9 sec)	Amber, Solid --> Green, Solid	Amber, Solid	Amber, Solid	Amber, Solid	Amber, Solid
	Power Off					
System	System Booting	Green, Blinking				
	System Error	Red, Solid				
	Reset to Default (WEB GUI)	Amber, Solid --> Blue, Blinking (3 sec) --> Green, Solid				
	HW Reset Key trigger Reset to Default (13sec)	Blue, Blinking --> Green, Solid				
Connection	4G Bad Signal	Green, Solid	Green, Solid			
	4G Poor Signal	Green, Solid	Green, Solid	Green, Solid		
	4G Fair Signal	Green, Solid	Green, Solid	Green, Solid	Green, Solid	
	4G Good Signal	Green, Solid	Green, Solid	Green, Solid	Green, Solid	Green, Solid
	5G Bad Signal	Green, Solid	Blue, Solid			
	5G Poor Signal	Green, Solid	Blue, Solid	Blue, Solid		
	5G Fair Signal	Green, Solid	Blue, Solid	Blue, Solid	Blue, Solid	
	5G Good Signal	Green, Solid	Blue, Solid	Blue, Solid	Blue, Solid	Blue, Solid
	4G/5G Searching	Green, Solid	Green, Blinking	Green, Blinking	Green, Blinking	Green, Blinking
	4G/5G Disconnected	Red, Solid	Red, Solid	Red, Solid	Red, Solid	Red, Solid
	SIM Not Ready	Green, Solid	Red, Blinking	Red, Blinking	Red, Blinking	Red, Blinking
Firmware Status	Upgrading	Red/Blue, Blinking				
BT	BT Connected	Green, Solid	Blue, Blinking (3 sec)	Blue, Blinking (3 sec)	Blue, Blinking (3 sec)	Blue, Blinking (3 sec)



LED Behaviour

LED #5: 4G/5G Strength
LED #4: 4G/5G Strength
LED #3: 4G/5G Strength
LED #2: 4G/5G Strength
LED #1 : Power

2.2 Installation

Step1. Insert Nano SIM card into the ODU device.

Step2. Pick up the Flat Ethernet cable that has one end affixed with a thin plate (with 8 screw holes).

Step3. Secure it to the bottom side of the ODU (where the SIM card slot and Ethernet port are located) by tightening with 4 screws.

Step4. Cover the screw holes with the rubber plugs to prevent water splashes on the screws.

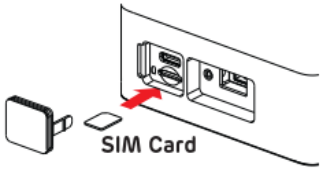
Step5. Connect the Ethernet Cable to ODU PoE Injector out-port and the Female connector of Flat Ethernet Cable.

1 **Insert SIM**

This step only applies for Nano SIM (4FF) supported SKU.
eSIM SKU may skip this step.

1-1: Insert the Nano SIM card into the SIM Card Slot located in the bottom-left of ODU device

1-2: Place the waterproof cover

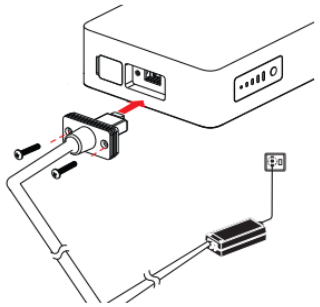


2 **Connect Ethernet Cable and Power-on ODU**

2-1: Pick the Flat Ethernet cable and connect its male RJ45 end (affixed with a waterproof cover) to the ODU Ethernet port at the bottom side, secure it by fasten the screws.

2-2: The other end of the flat cable will be connected to the ODU PoE Injector "OUT" port.

2-3: Using the second Ethernet Cable and connect to the PoE Injector "IN" port and the other end connect to the Laptop/PC Ethernet RJ45 Port or WAN port of the Router.

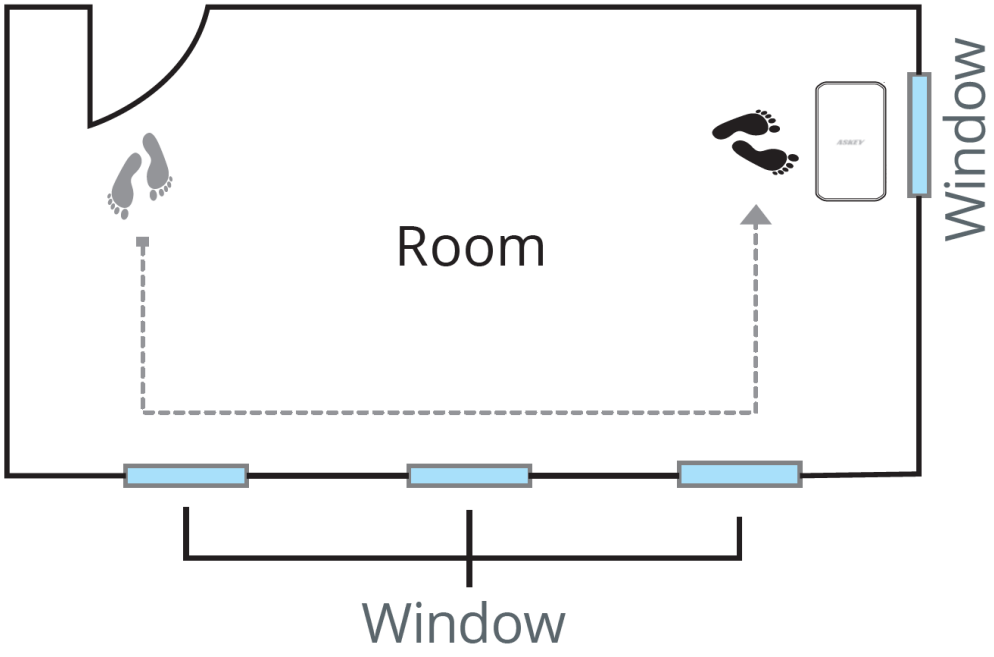


2.2 Installation

Step6. To locate the optimum spot, power-up the ODU and stand next to a window. Check the LED indicators on the ODU. The more LED indicators (Blue/Green color) are lit, the stronger the 5G/4G signal is in that premise.

Step7. Move the ODU to different spots, preferably all next to the windows to locate the optimum spot for the ODU installation. Repeat step6 - step7 until the optimum spot is located.

Step8. After locating the window with optimal signal. Clean the installation surface on the window (side facing outdoors), preferably with an alcohol wipe. Wait till the window surface has dried.

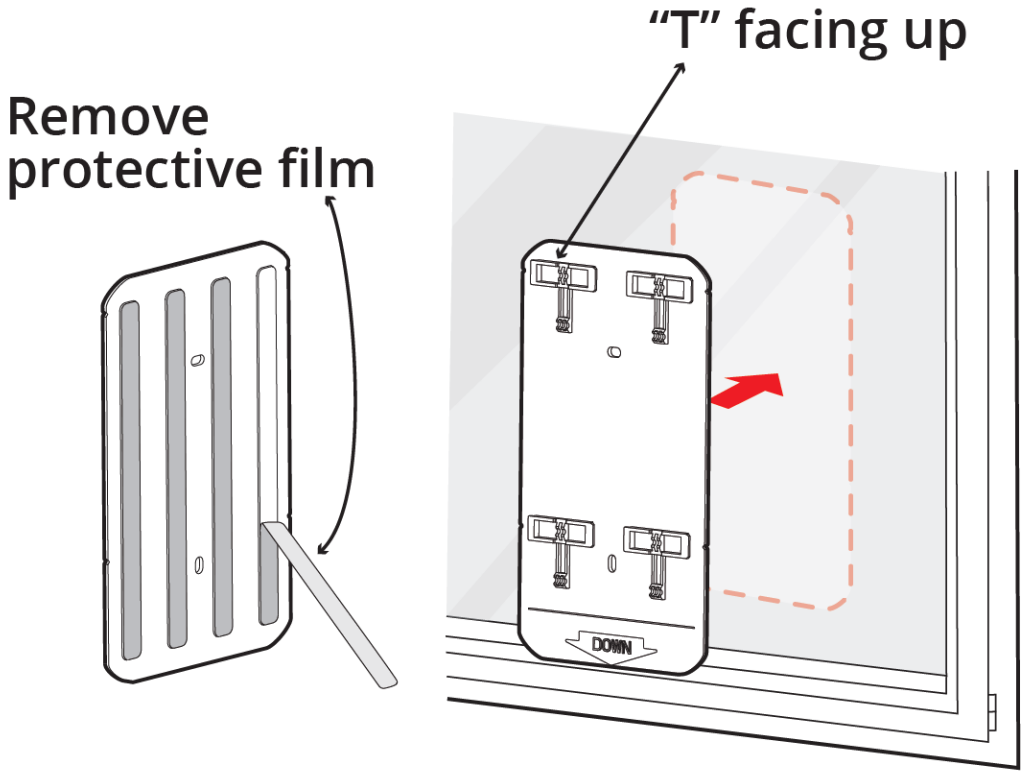


2.2 Installation

Step9. Remove the protective films on the Gecko tape Plate.

Step10. Position the Gecko tape Plate on the clean window surface with the "T" facing up.

Step11. Firmly press the entire surface of the Gecko tape Plate against the window.

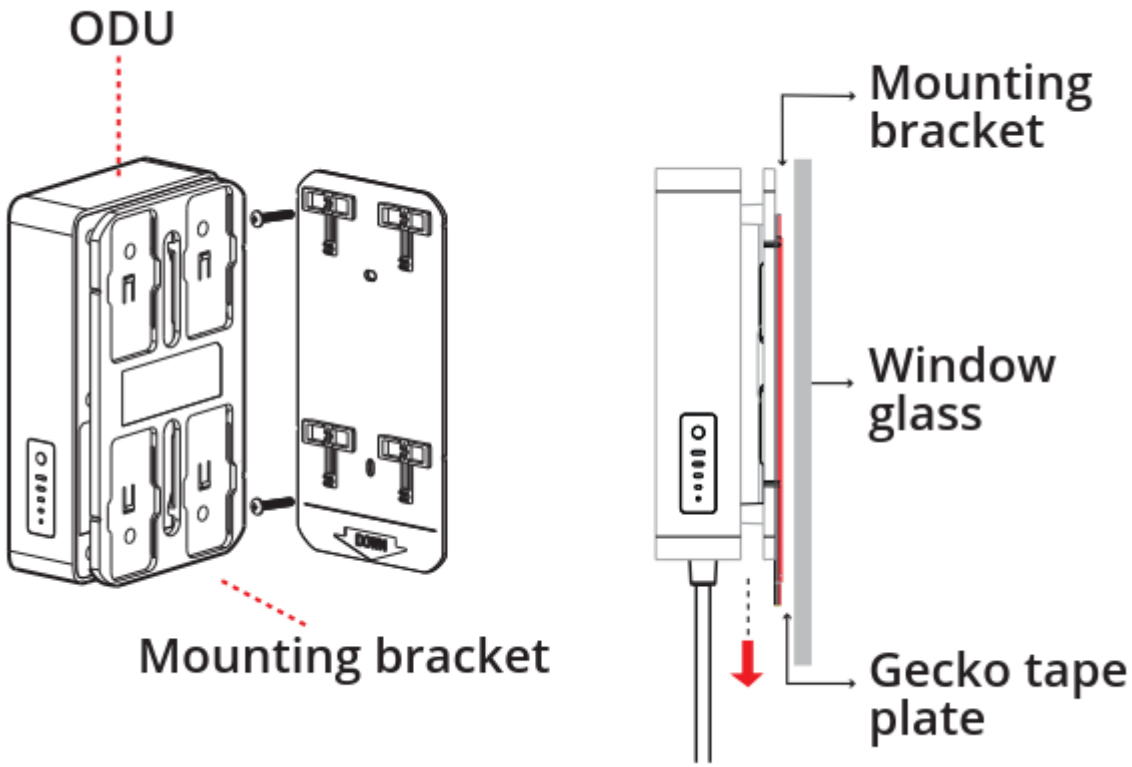


2.2 Installation

Step12. Assemble the ODU with the window-mounting bracket. Secure the window-mounting bracket to the back of the ODU by tightening 4 screws.

Step13. Mount the ODU onto the window mounting kit.

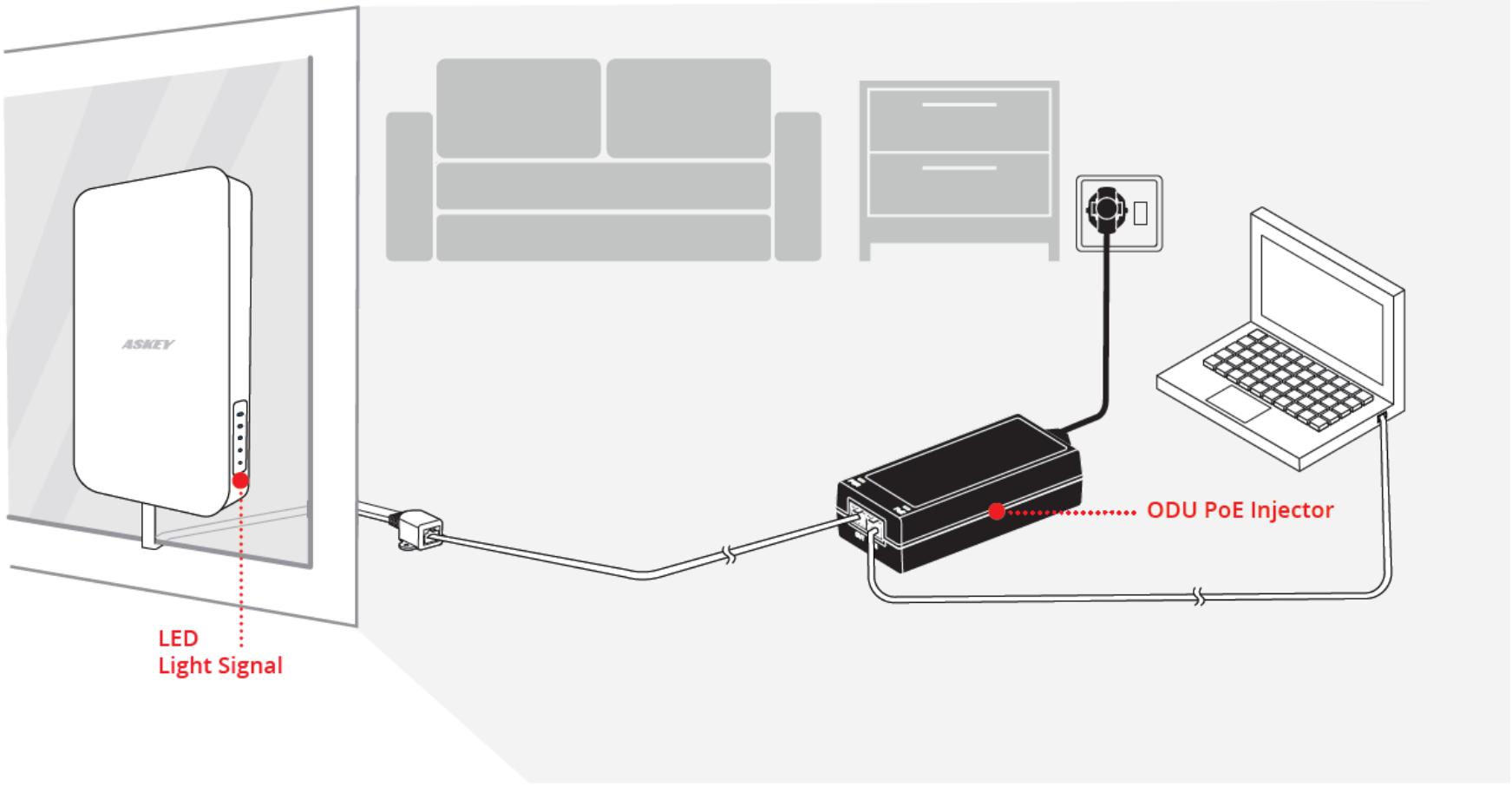
Step14. Lock the ODU with a gentle downward thrust till click.



2.2 Installation

Step15. Power-up the ODU.

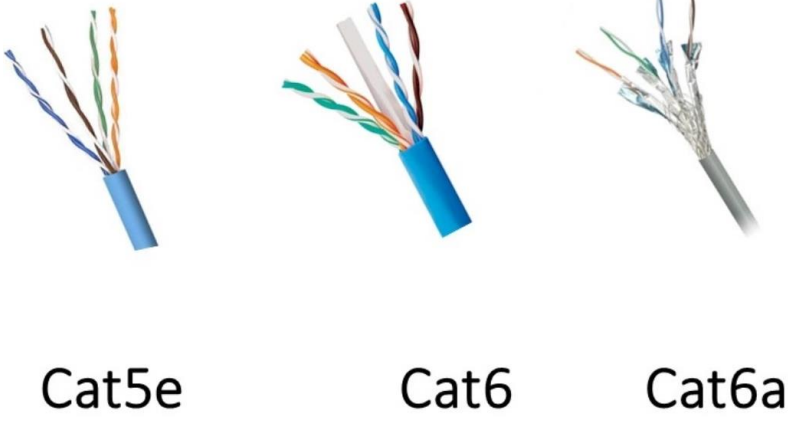
Step16. Internet access is available after connecting Ethernet cable between ODU PoE Injector in-port and the laptop.



2.3 Notice

- Recommend to use Ethernet cable (RJ45) with **CAT-6** or above for better stability of PoE.

Type	Speed			
	(Mb/s)		(Gb/s)	
	10	100	1	10
CAT-5	◎	◎		
CAT-5e	◎	◎	◎	
CAT-6	◎	◎	◎	◎
CAT-6a	◎	◎	◎	◎

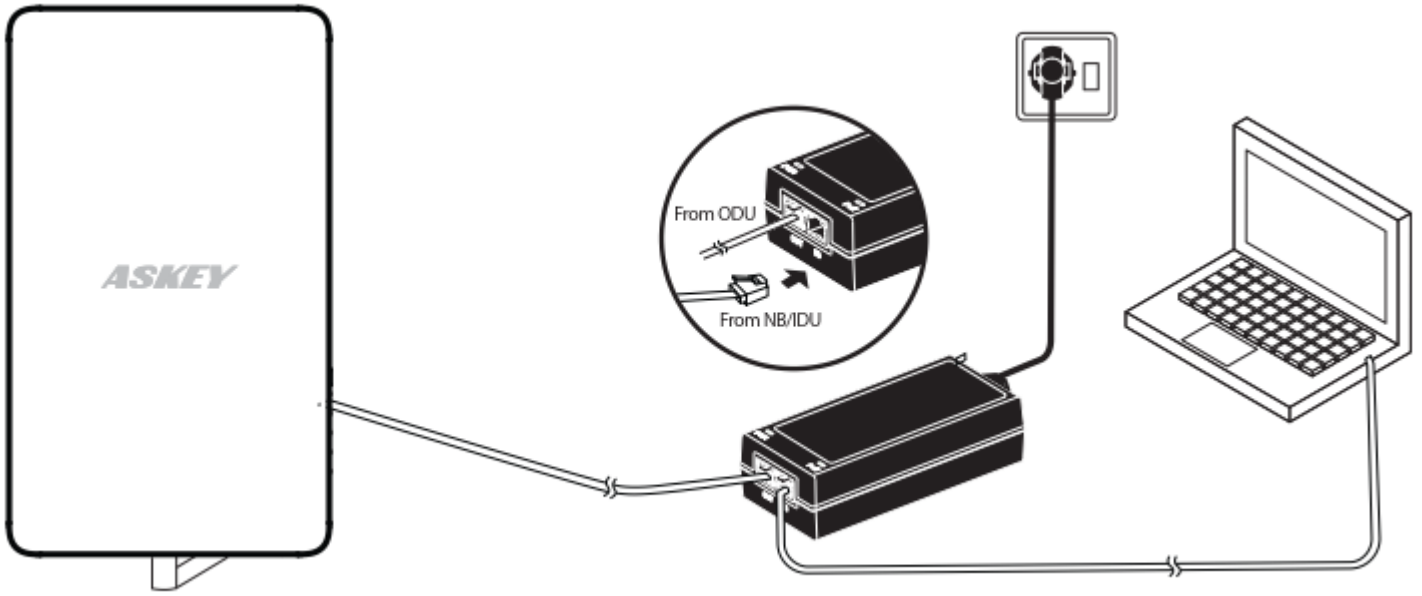


Cat5e Cat6 Cat6a

3.1 Connect Your Devices Wired

Step1. Connect the Ethernet cable to the LAN port on the PoE Injector

Step2. Connect the other end to your computer

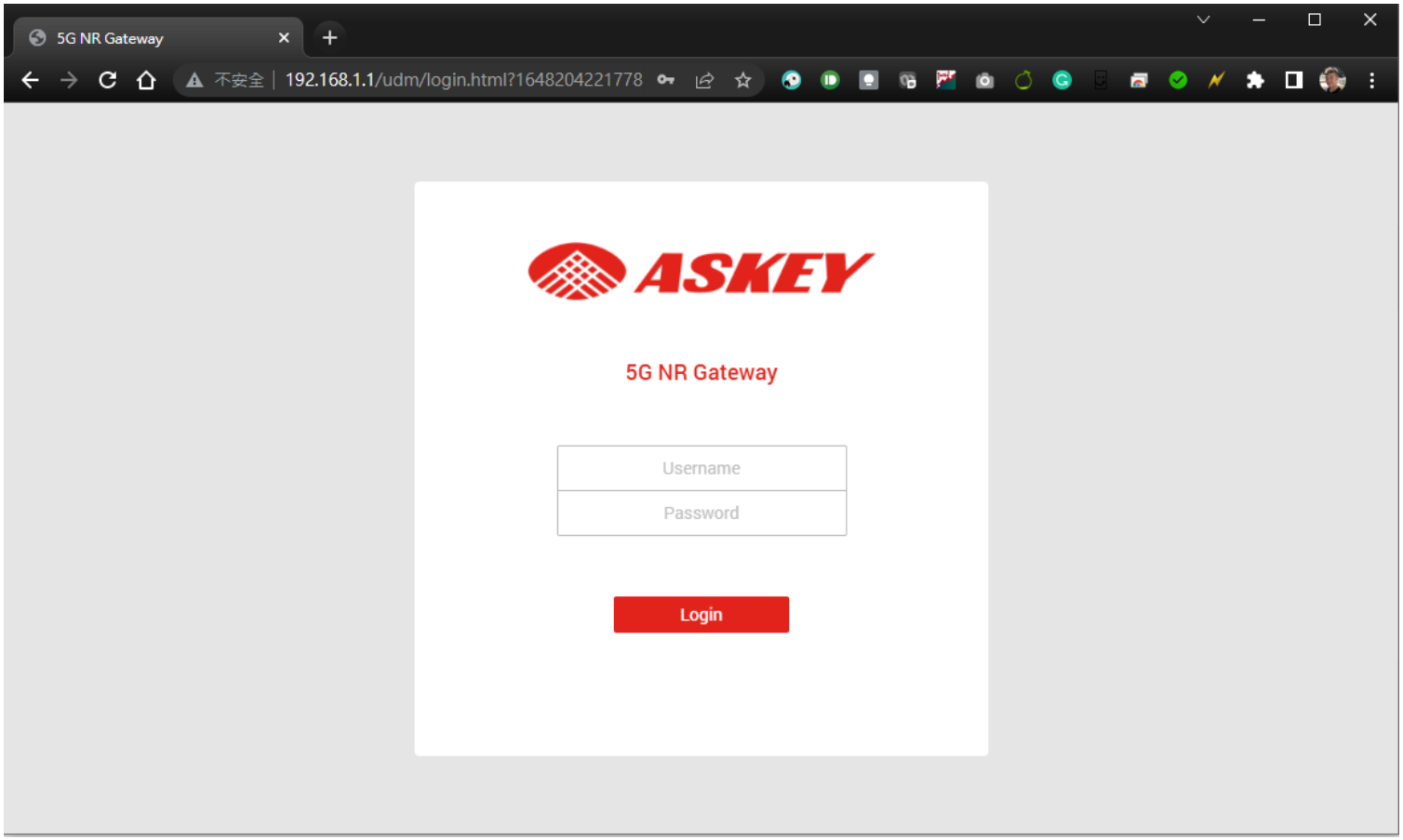


3.2 Web UI Login

Step5. Use a Web Browser to Access the ODU.

Step6. The browser goes to **http://192.168.1.1** and the login page displays.

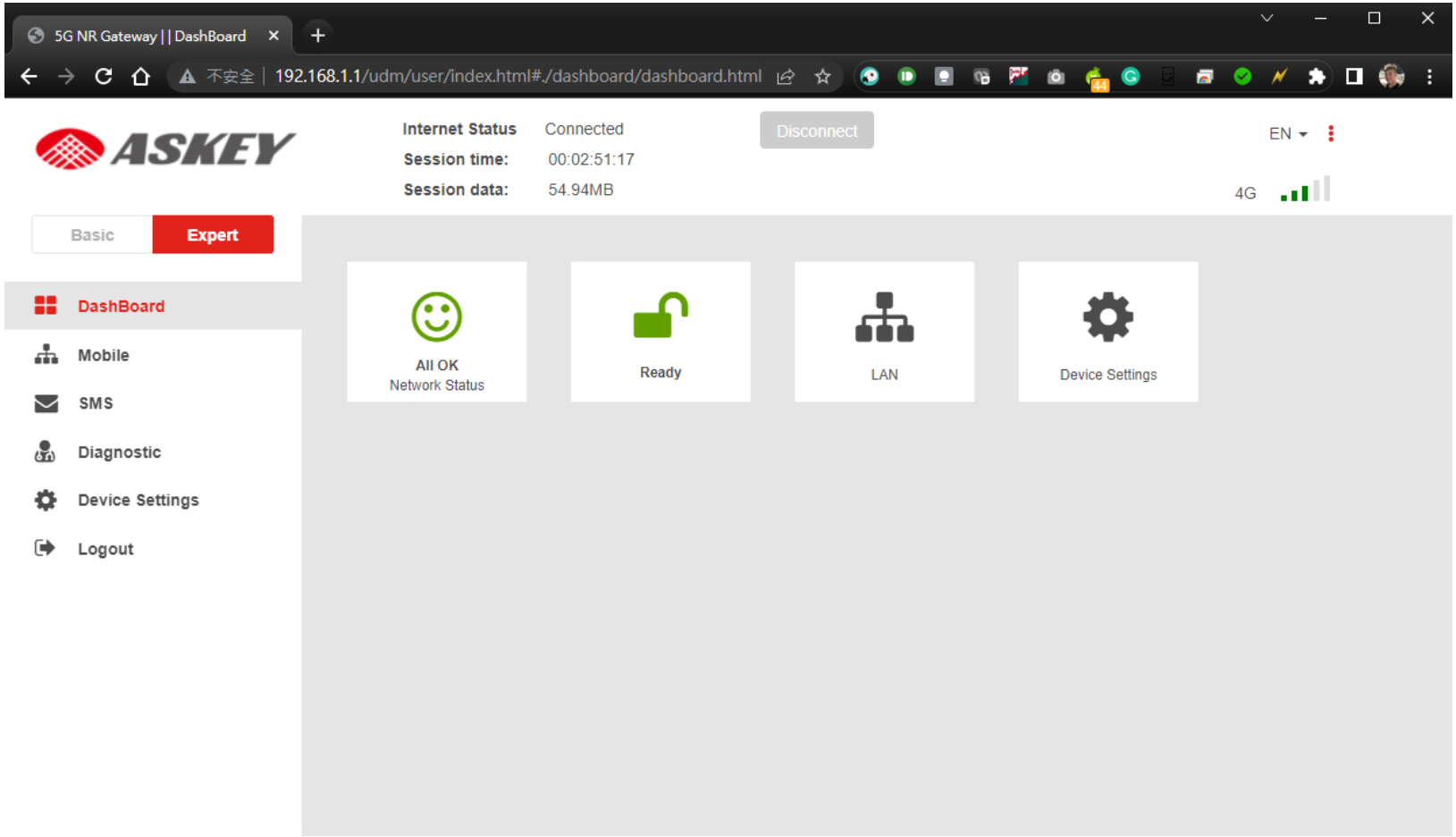
Step7. Enter Username and Password.



3.3 Dashboard

Step1. Login Web UI

Step2. When the network status is connected, it will show the smile face icon

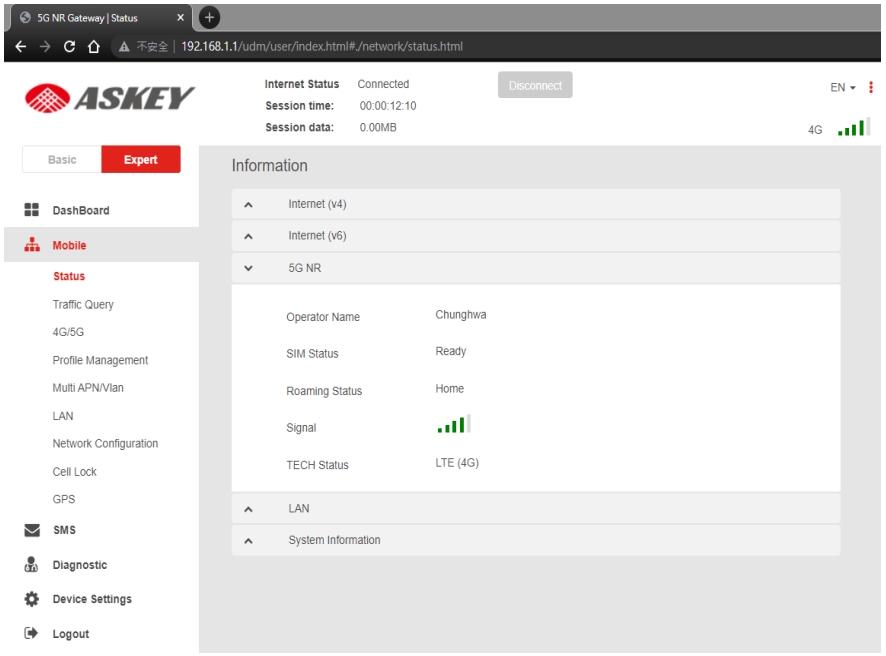


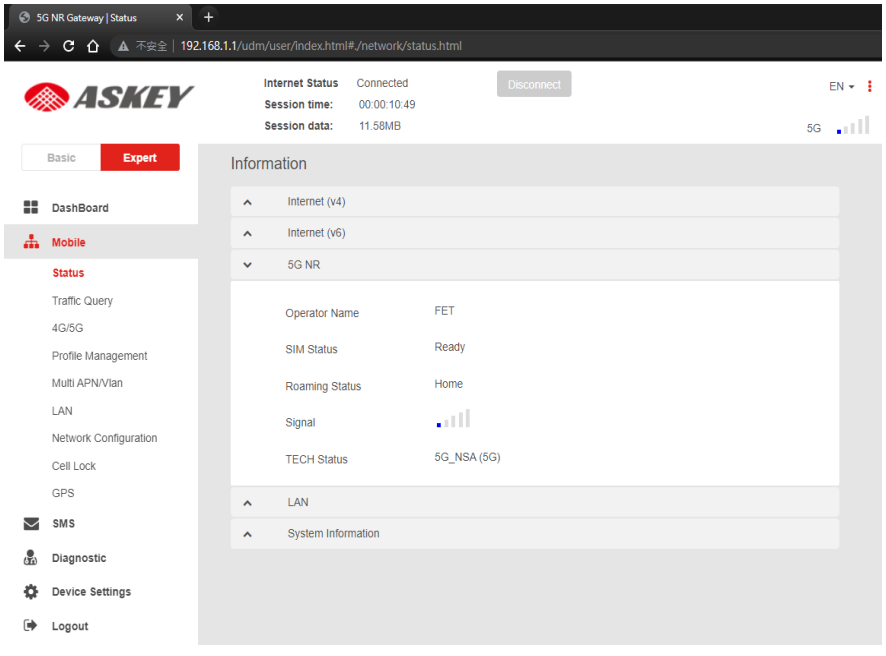
3.4 Check Network Status

Step1. Navigate to Basic → Mobile → Status.

Step2. Check detailed information regarding Internet(v4), Internet(v6), LTE and System.

Step3. **LTE (4G)**: Registration on 4G**.** **5G_NR**: Registration on 5G.

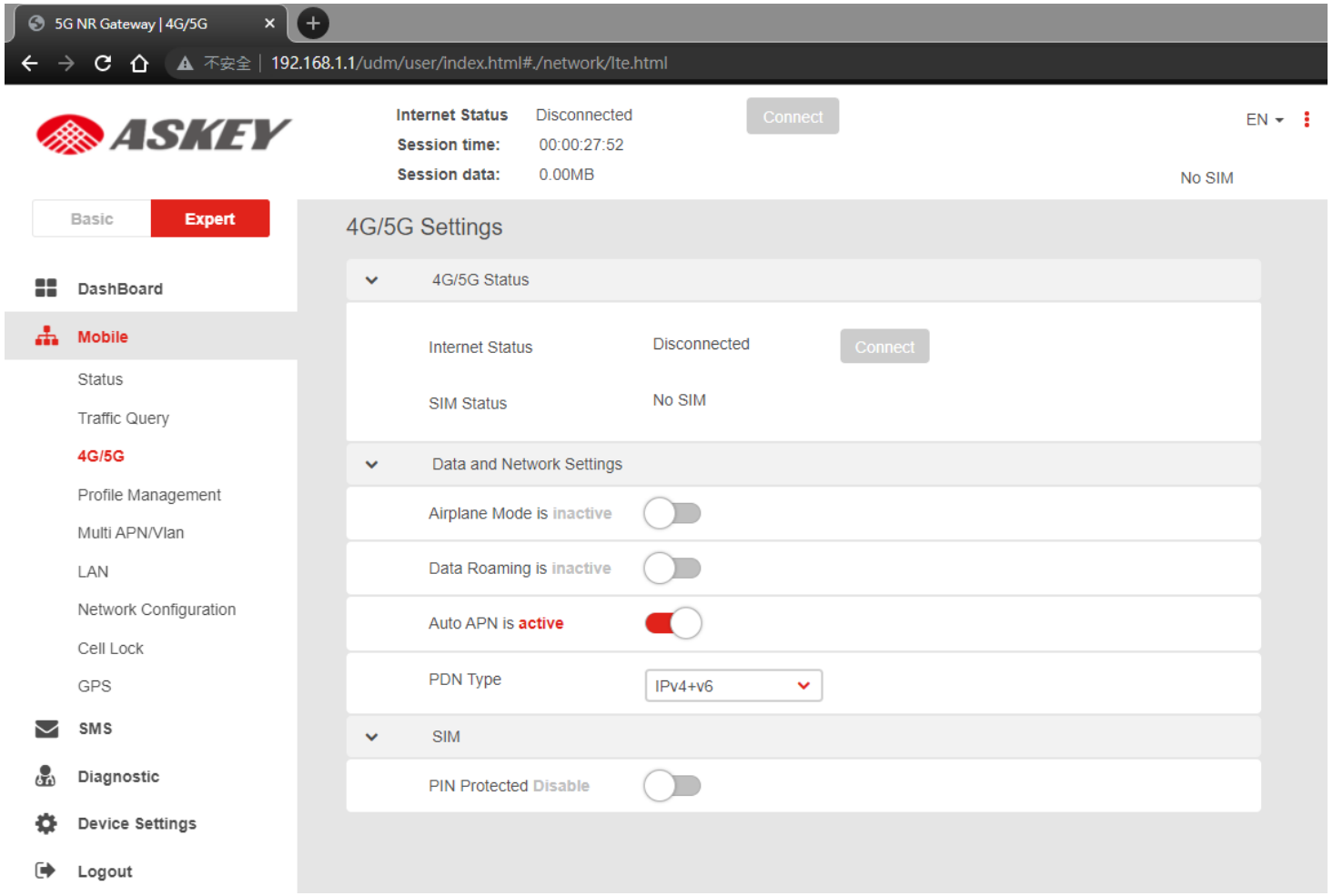




3.5 Manage LTE settings

Step1. Navigate to Basic (or Expert) → Mobile → 4G/5G.

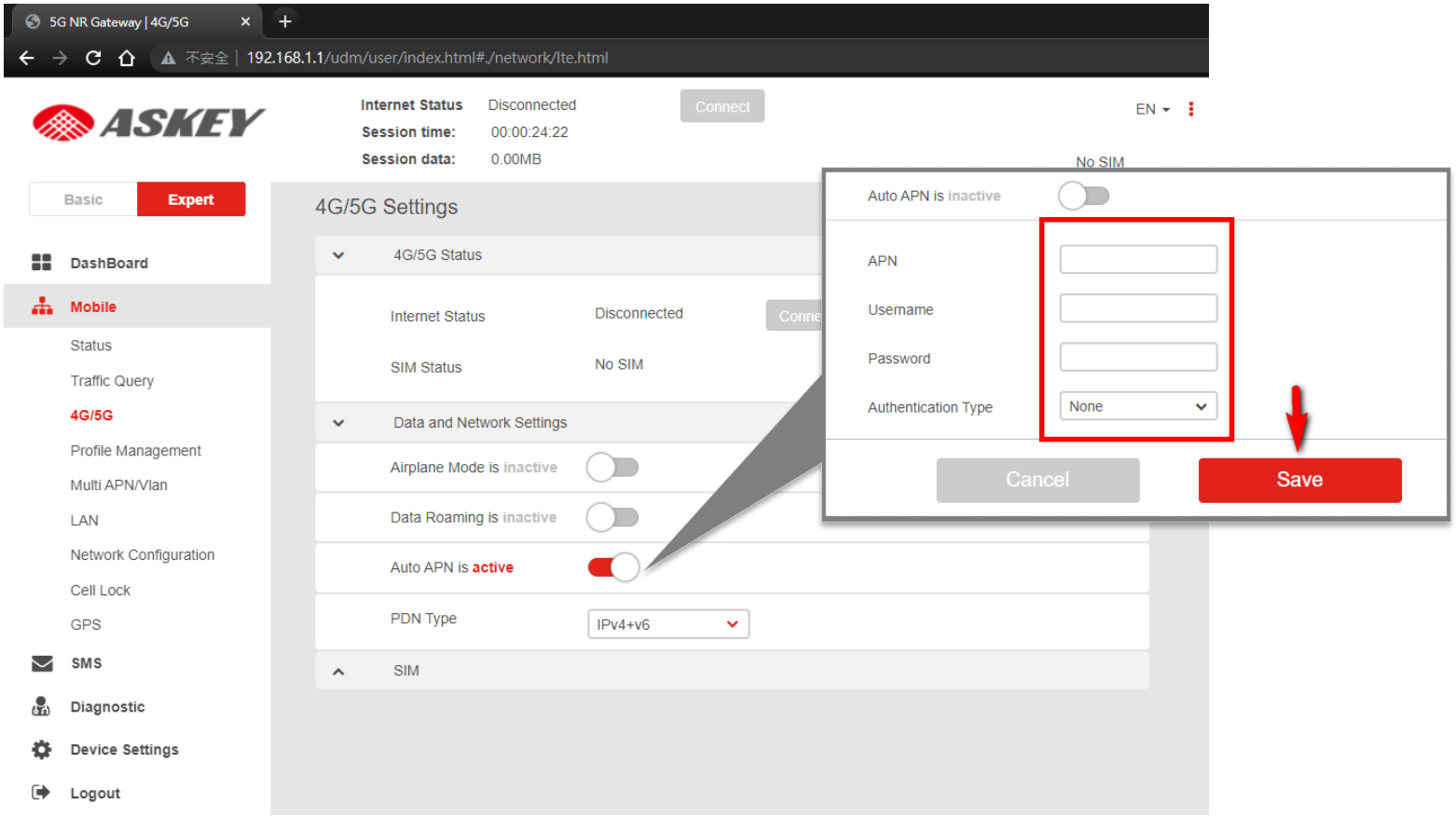
Step2. The SIM status, APN, and PIN related settings are here.



3.5 Manage LTE settings

Step3. To Change APN (Access Point Name) Profile. Disable auto APN.

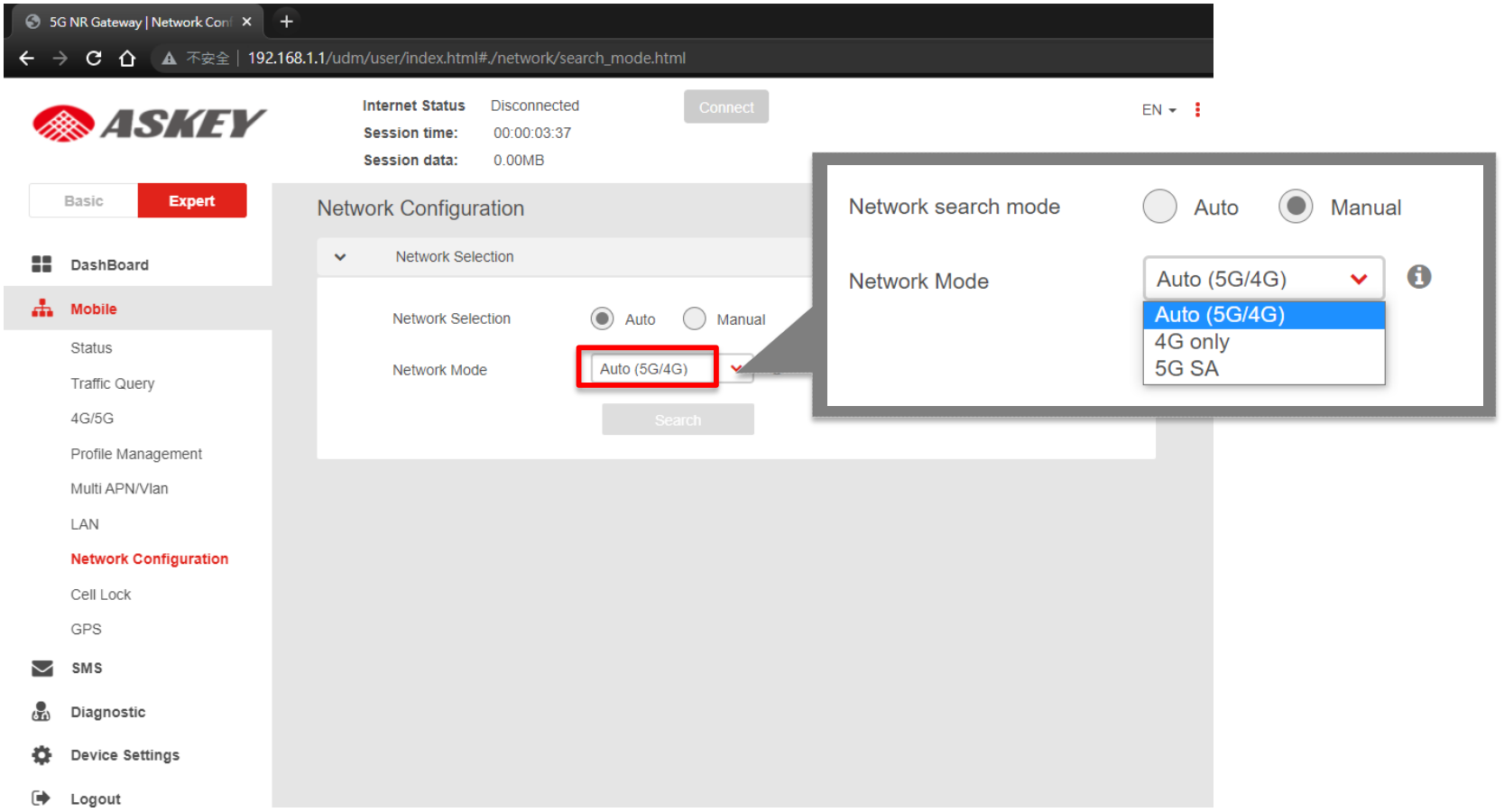
Step4. Add new APN manually, edit & save.



3.6 Network Selection

Step1. Navigate to Expert → Mobile → Network Configuration.

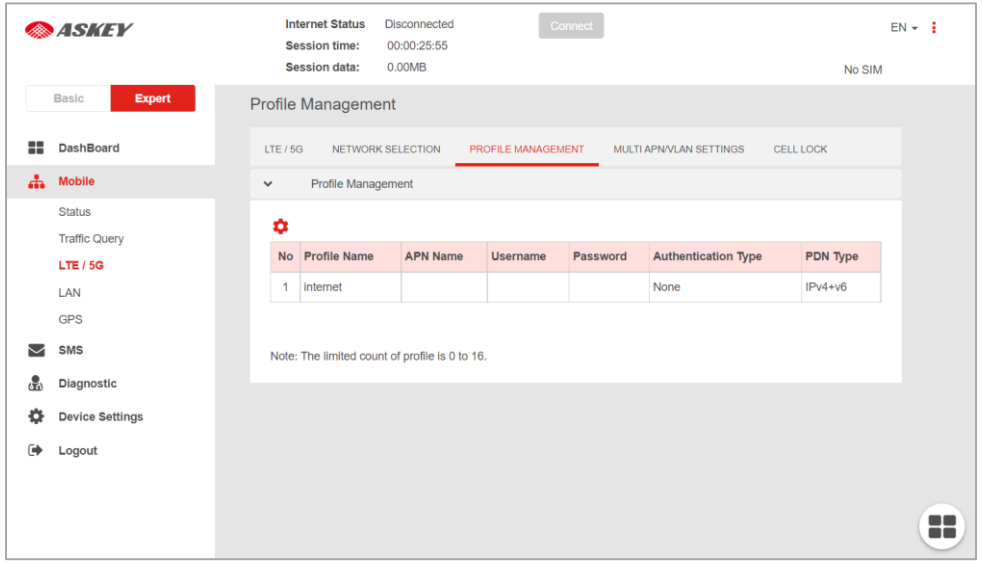
Step2. The default network mode is **Auto**. Select Manual to change the setting.

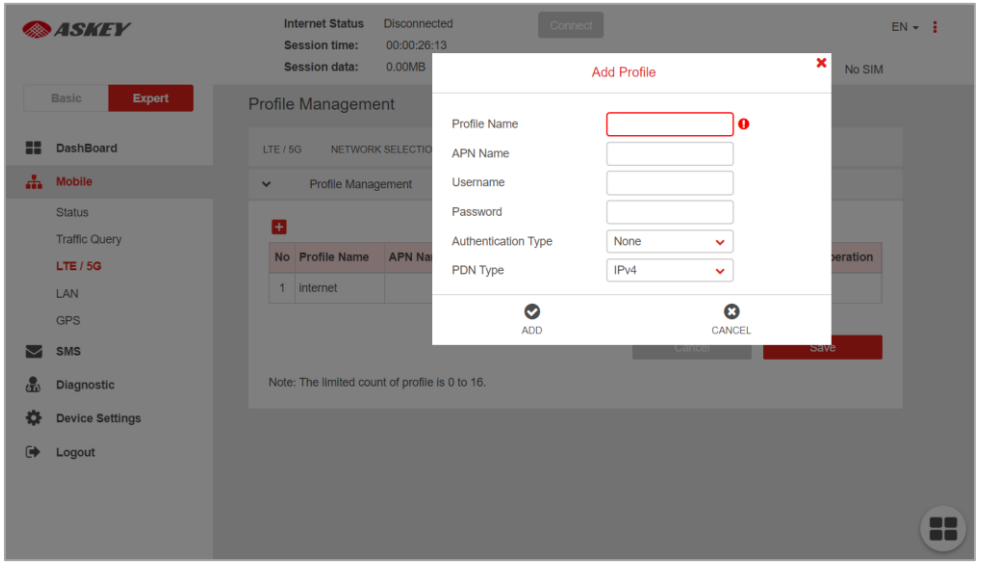


3.7 Profile Management

Step1. Navigate to Expert → Mobile → Profile Management.

Step2. Click "⚙" to set the profile and Click"+" to add profile.



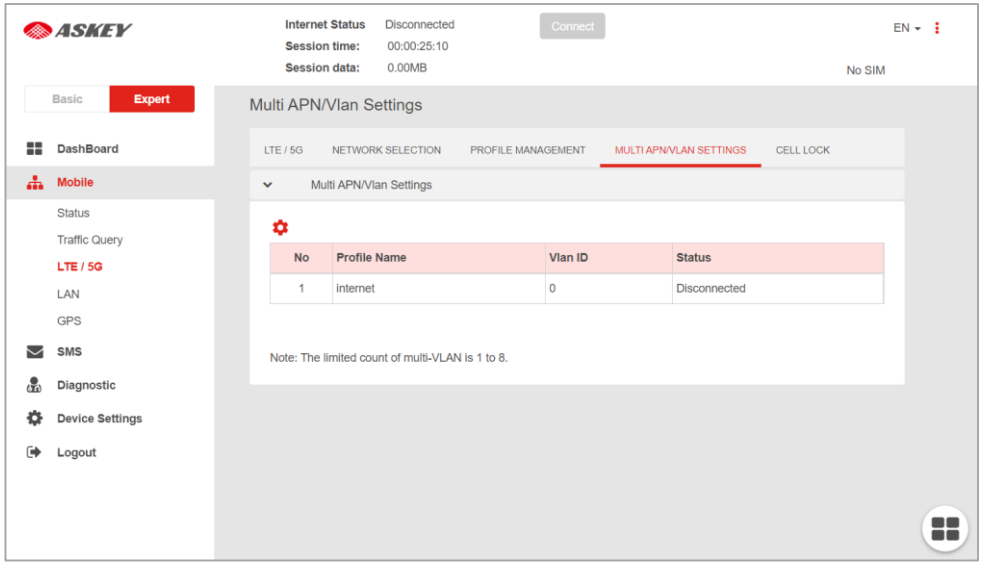


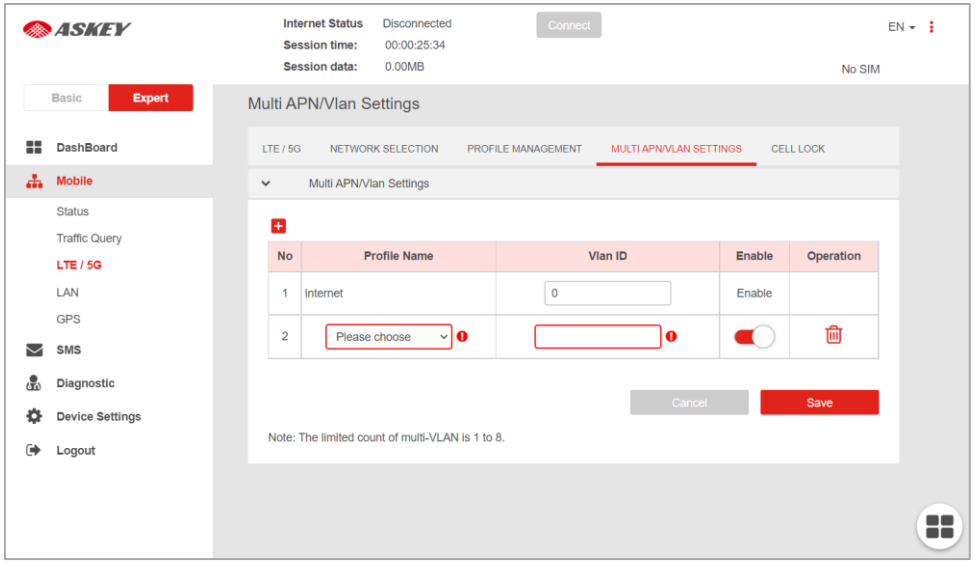
3.8 Multi APN/Vlan Settings

Step1. Navigate to Expert → Mobile → Multi APN/Vlan Settings.

Step2. Click "⚙" to set the Vlan and Click"＋" to add profile Vlan.

Step3. The limitation of Multi APN / Vlan are 8 groups.





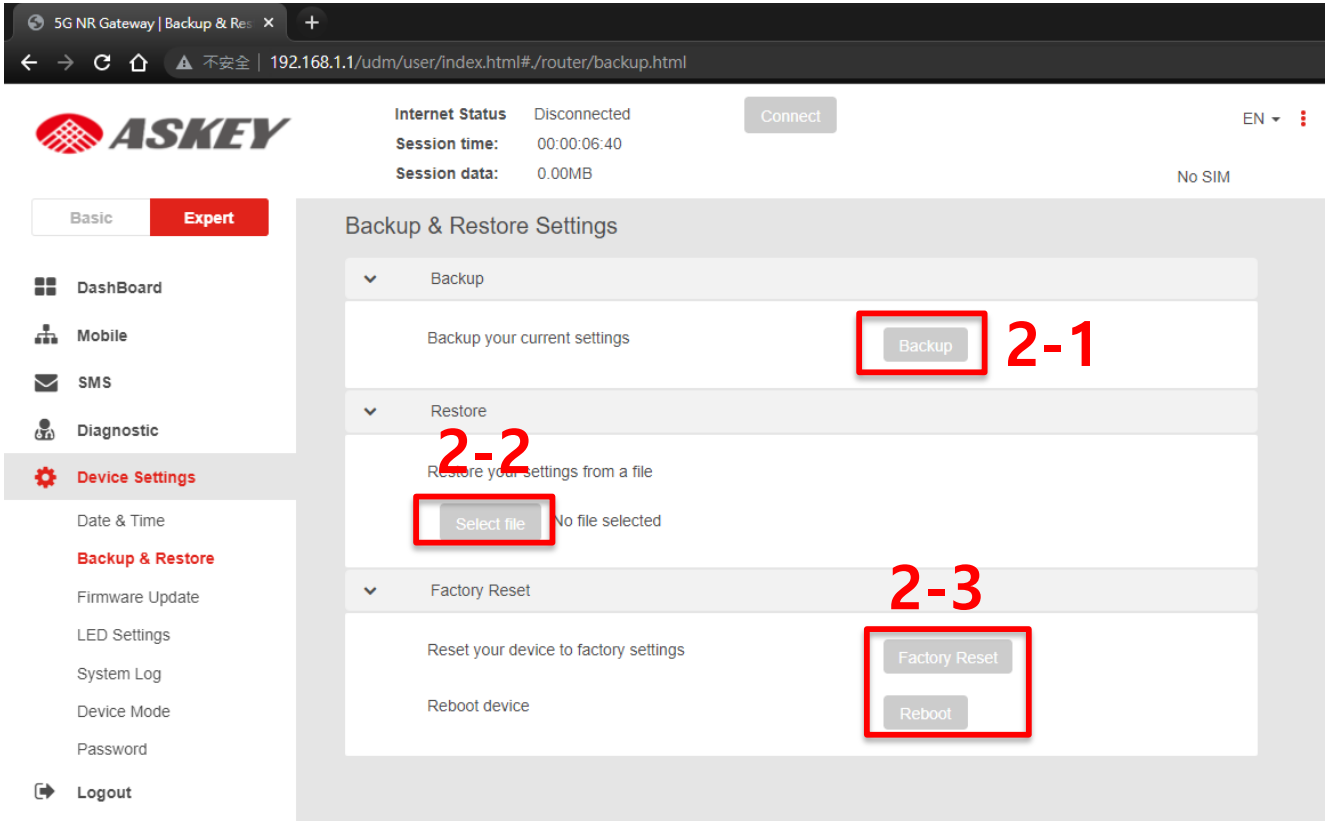
3.9 Backup / Restore

Step1. Navigate to Expert → Device Settings → **Backup & Restore**.

Step2-1. To save the configuration. Firstly click **Backup**. Then click **Download**.

Step2-2. Click **Select file** to restore settings.

Step2-3. Click **Factory Reset** to load default setting. Click **Reboot** to restart the ODU.

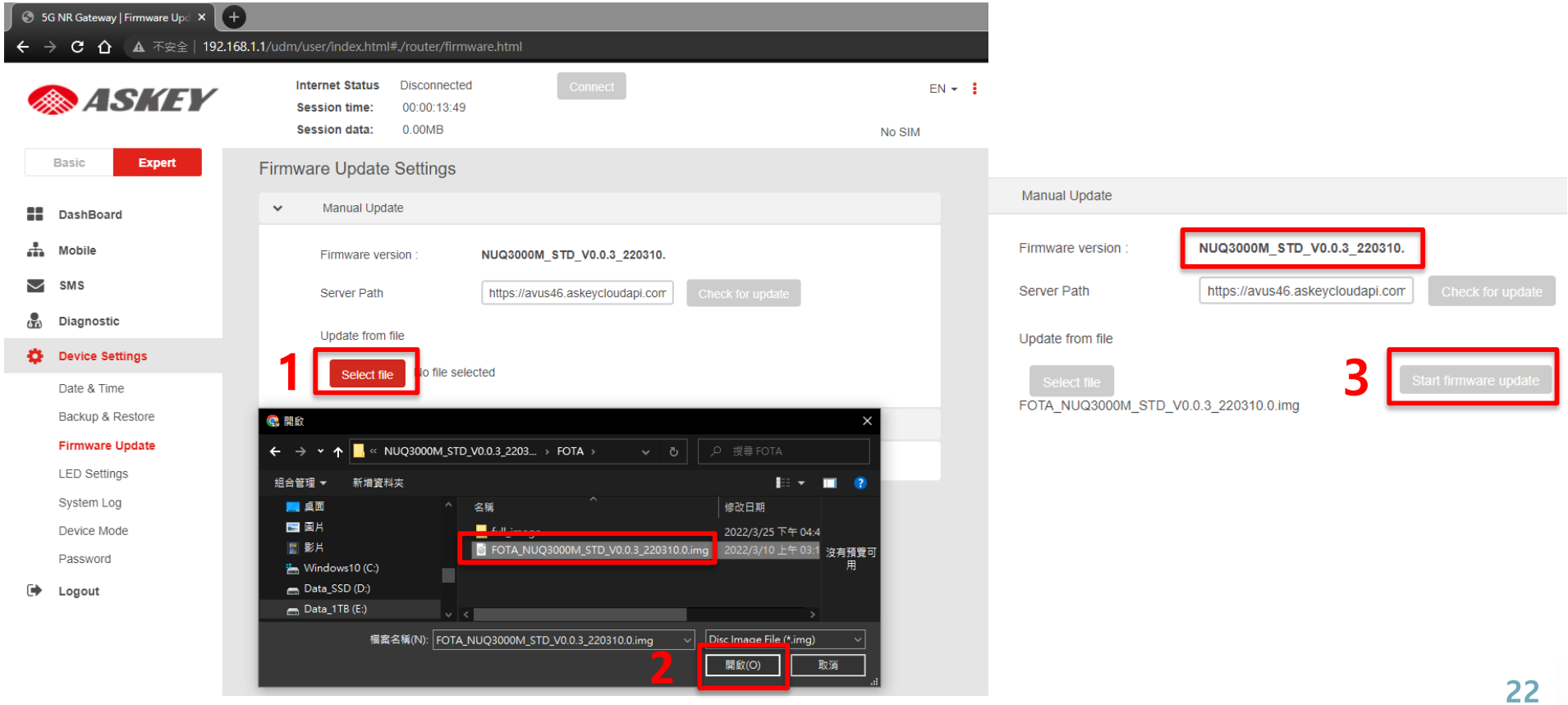


3.10 Firmware Upgrade

Step1. Navigate to Expert / Device Settings / Firmware Update. Click **Select file**.

Step2. Open file "FOTA_NUQ3000M_STD_VX.X.X_XXXXXX.X.img" to update.

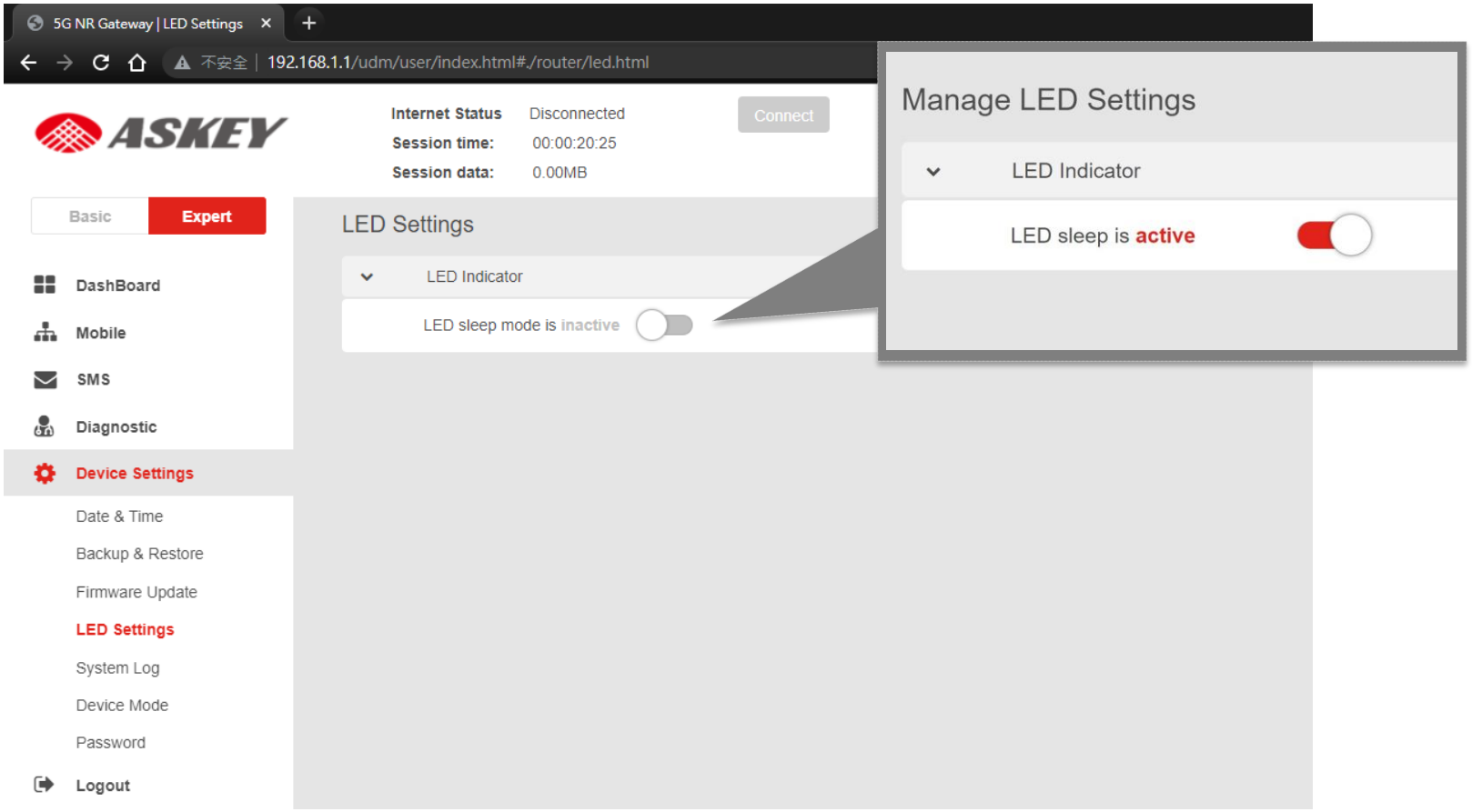
Step3. Click **Start firmware update**. Then check new firmware version is correct.



3.11 LED Settings

Step1. Navigate to Expert / Device Settings / LED Settings.

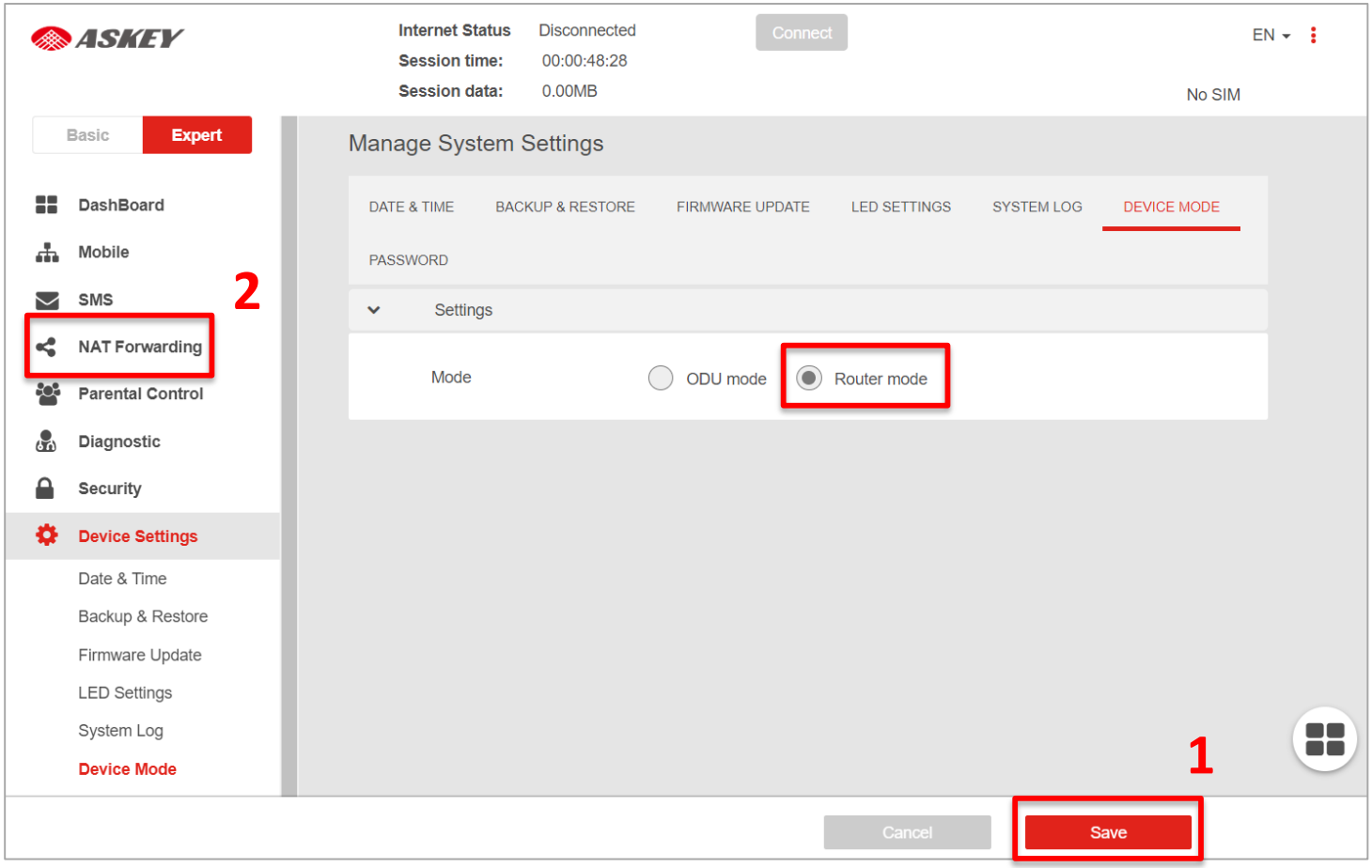
Step2. Enable LED sleep.



4.1 Enable Router Mode

Step1. Navigate to Expert / Device Settings / Device Mode.

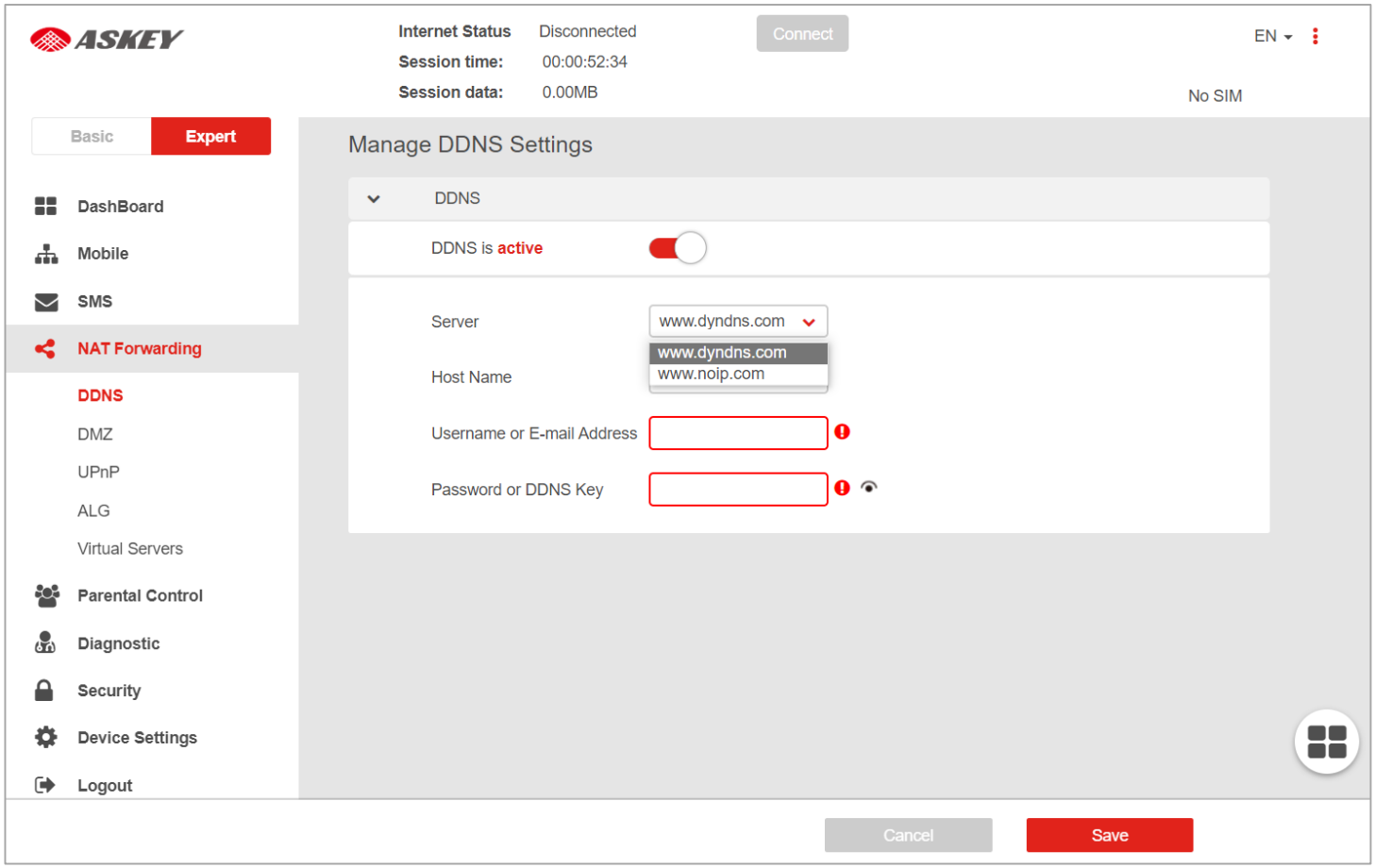
Step2. Select Router Mode, GUI shows NAT Forwarding.



4.2 Set DDNS

Step1. Enable DDNS.

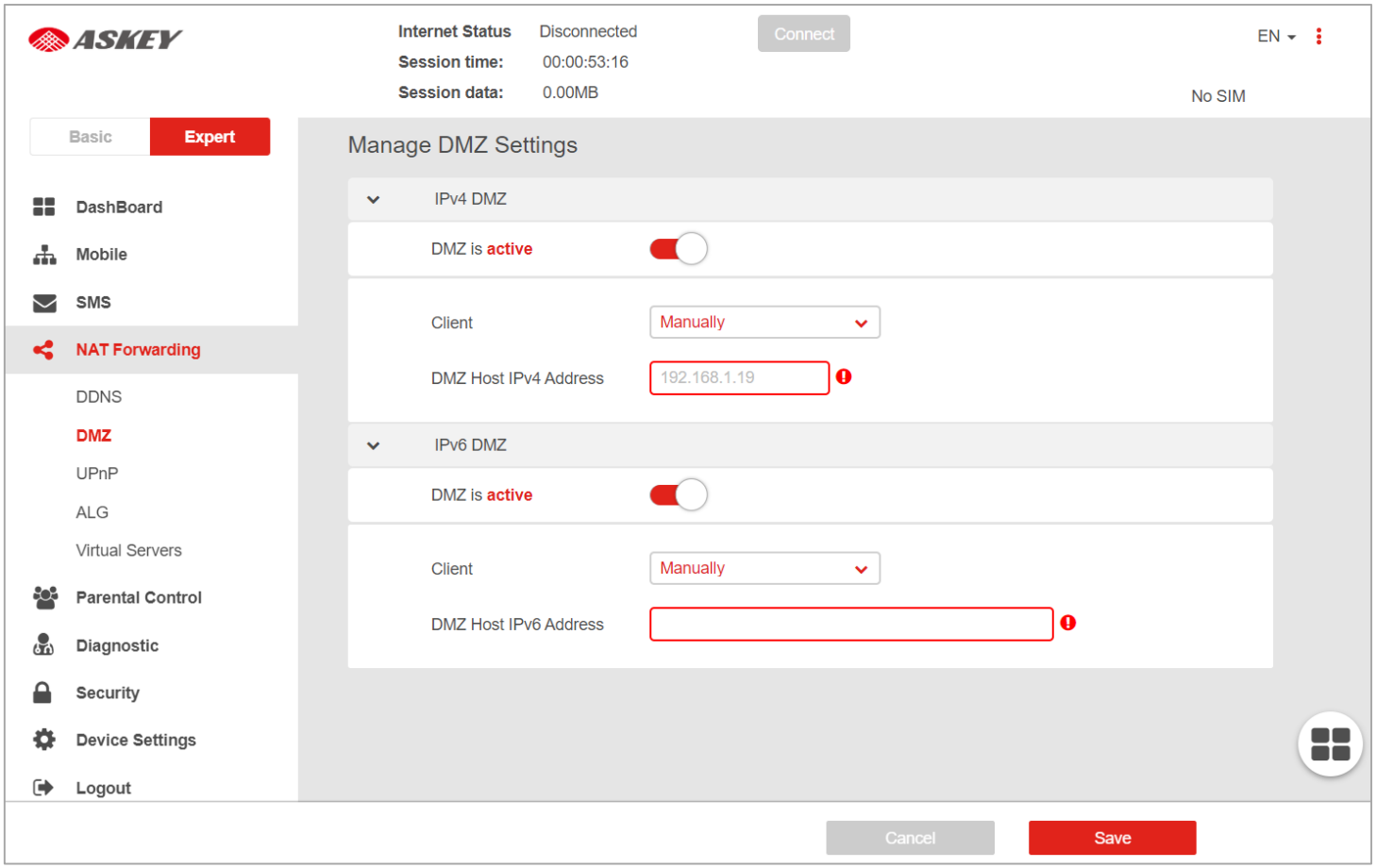
Step2. Select server, fill in Username or Email address and Password.



4.3 Set DMZ

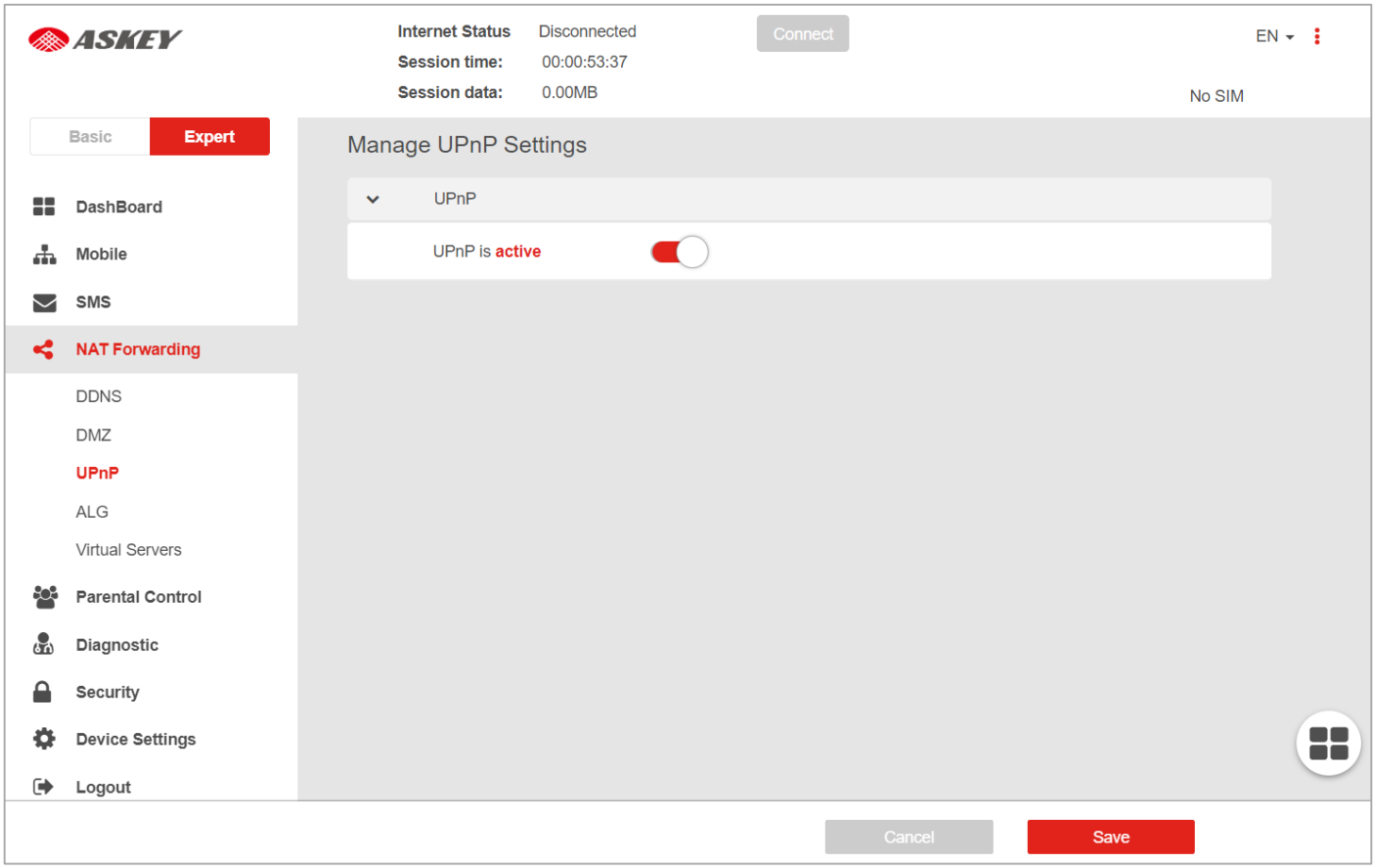
Step1. Enable DMZ.

Step2. Fill in DMZ host IP address.



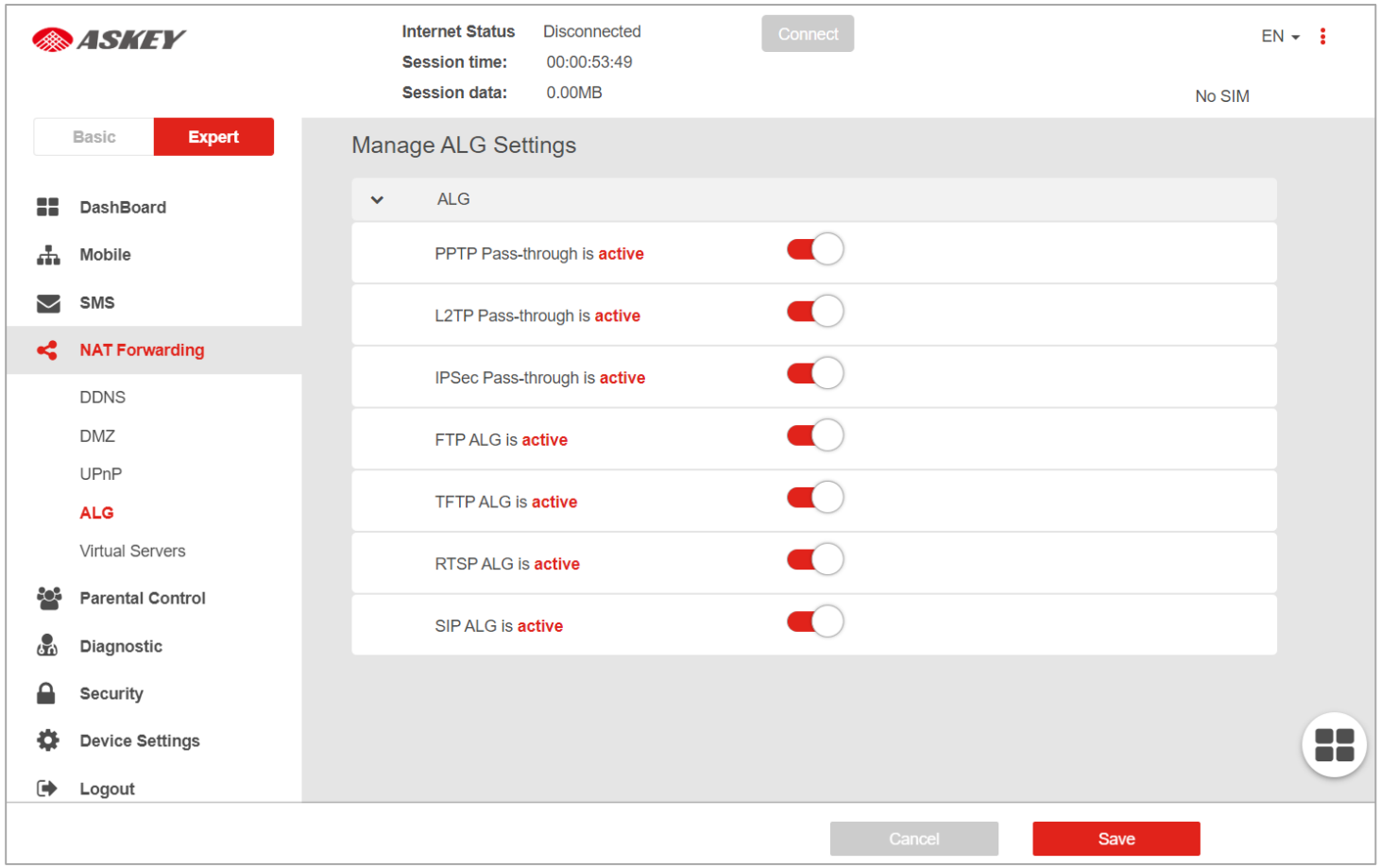
4.4 UPnP

Step1. Enable UPnP.



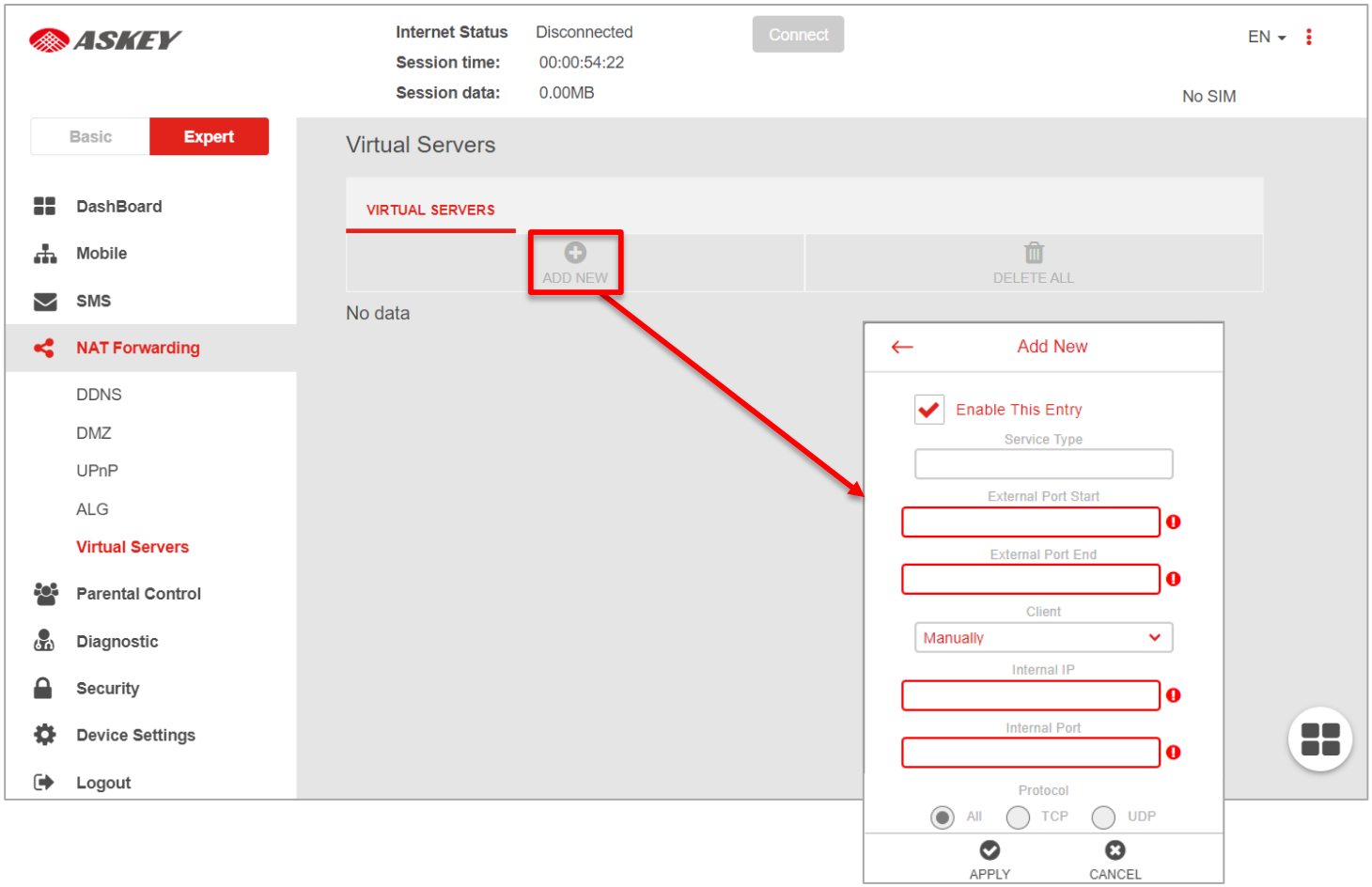
4.5 Set ALG

Step1. Enable ALG.



4.6 Add Virtual Servers

Step1. Click " ADD NEW " to add virtual server.



Manufacturing Experiences.

Since 1989.