



Dual-band Wi-Fi6 Router | Extender WF-810DF

Product Datasheet : Version 1.0



Safety Notes

Read these instructions carefully before installing the device. It is important to be aware of these safety instructions. Install the device according to these instructions and keep this manual for future reference.

1. Do not use this device in a humid, rainy environment, or near splashing water. Do not install during thunder or lightning storm
2. The device should be installed in a location not to exceed the maximum temperature of 40 degrees Celsius (104 degrees Fahrenheit). Do not place the device near heat sources such as fire, radiators, or stoves.
3. Please set aside more than 10cm of heat dissipation space around the equipment. Do not cover any ventilation openings in the device case.
4. Clean the device only with a clean, dry cloth. Do not use liquid or chemical cleaners
5. The device is designed for IT power systems with phase-to-phase voltage at 100-240V. Keep the power plug clean, and dry, to avoid electric shock risk.
6. Disconnecting the Device: If the device becomes damaged or encounters some other abnormality, disconnect the power plug from the AC wall outlet immediately.
7. Please keep the equipment clean, and prevent it from dust pollution.
8. Keep the device away from Children and Pets.
9. Do not modify or attempt to disassemble the device. Use it only according to the instructions
10. Do not dispose of the device in a trash container. Please recycle.



Interface



Mesh Button : Press and hold for 3-5 seconds to activate the Mesh-Pairing process. The AP will find and establish Mesh with a neighbour AP around.

Reset Button : Hold the Reset Button for more than 10s, the LED will be white blinking, then release the reset button. The device will begin to restore to the default configuration. Do not turn off the power during the resting process. This process will finish in about 2 minutes.

LAN: Used to connect Ethernet devices, such as computer, gaming consoles, printers.

WAN: Connected Gateway Router. Power: connected with power adapter (DC12V-1A)



LED Indicators

See the following diagram and description of the device's LED behaviour, and behaviour of the back panel Ethernet indicators.

Wireless Router has only 1 STATUS led with light description as below:

Colour	Solid	Pulsing slow 4s on, 1s off	Pulsing Fast 2s on, 1s off	Blinking
White	Problem-free operation	No back-haul	Back-haul pairing(Press and Hold Mesh button in 3 sec)	Very weak back-haul signal
Red	Both radios OFF	2.4G Radio OFF	5G Radio OFF	
OFF	Power OFF			



Set Up

Web Login

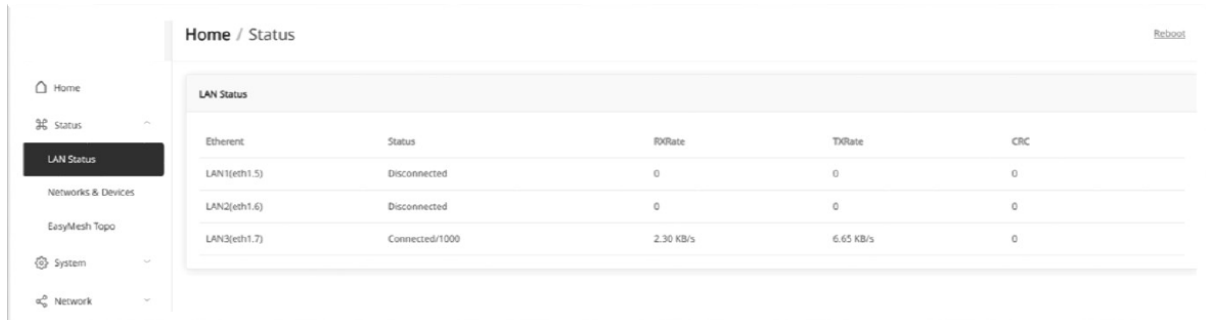
1. Configuring the IP address of your PC to 192.168.100.x (x can be 2~254, subnet mask is 255.255.255.0).
2. Ping the IP address of Wireless Router WF-810DF. (Default address is 192.168.100.1). If the PC can get the right reply from Ping command, it means the connection between the PC and the device has been successfully established.
3. Open a browser on PC and input the IP address <http://192.168.100.1> (default IP of Wireless Router).
4. See the backside lable on the device to find the default user name and password.
5. After logging Wireless Router view the status or modify the configuration of the device. Some configurations or changing will take effect only after rebooting the device.

The screenshot displays the web interface of a Camtech wireless router. On the left is a sidebar menu with options: Home (selected), Status, System, and Network. The main content area is titled 'Home' and features a status bar with three components: 'Terminal devices' (0 connected), 'System' (Online), and 'WAN' (Disconnect). Below this is a 'System Information' table.

System Information	
Hostname	AP-AX3000CV2-6991
Model	AP-AX3000CV2
Architecture	ARMv7 Processor rev 4 (v7l)
Firmware Version	0.3.15-NCS-T
Kernel Version	5.4.164
Local Time	Fri, 19 Apr 2024 23:08:16 Asia/Ho Chi Minh
Uptime	0h 3m 15s
Wan MAC	5C:1A:6F:04:69:91

Status and System

You can see all the device status under Home/Status and Home/System page

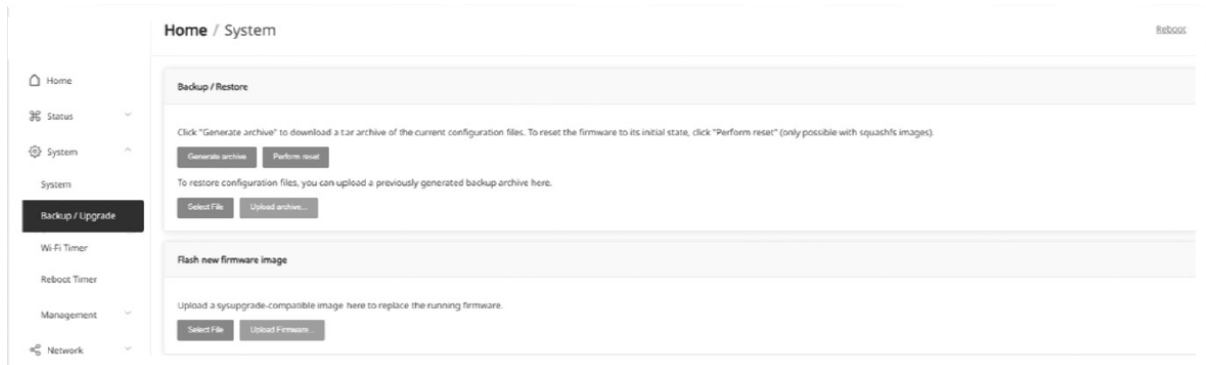


Ethernet	Status	RxRate	TxRate	CRC
LAN1(eth1.5)	Disconnected	0	0	0
LAN2(eth1.6)	Disconnected	0	0	0
LAN3(eth1.7)	Connected/1000	2.30 KB/s	6.65 KB/s	0

Upgrade

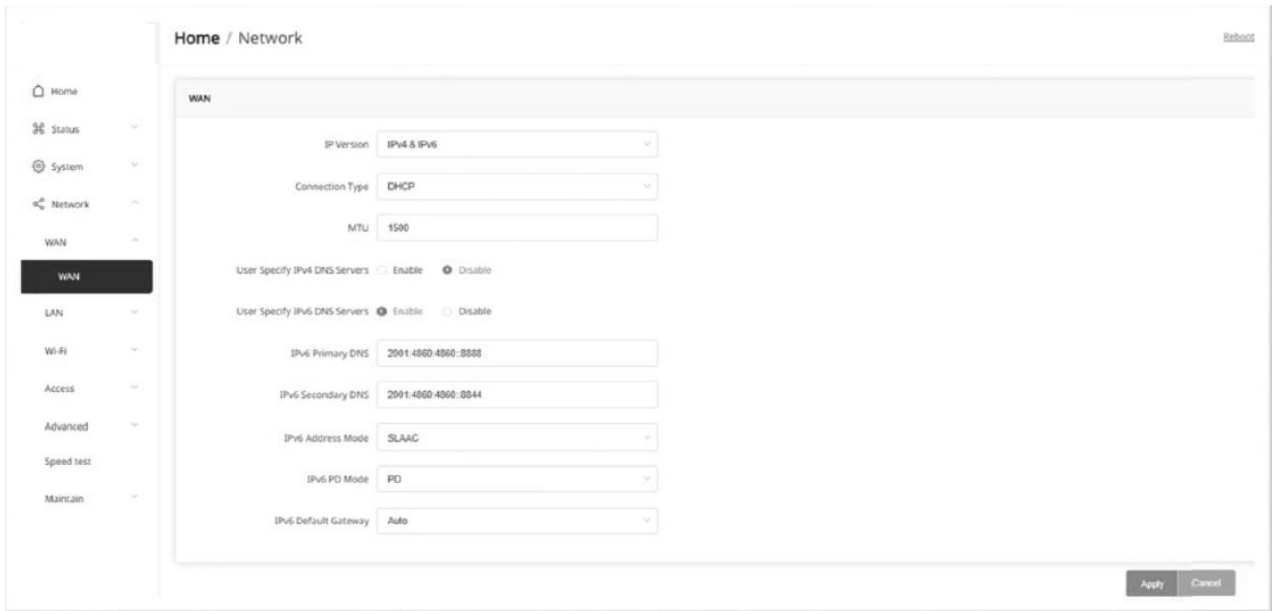
You can upgrade the FW under Home/System/Backup/upgrade page:

- Step 1: Select the new FW file
- Step 2: Upload FW



Network

You can change the settings under Home/Network page:

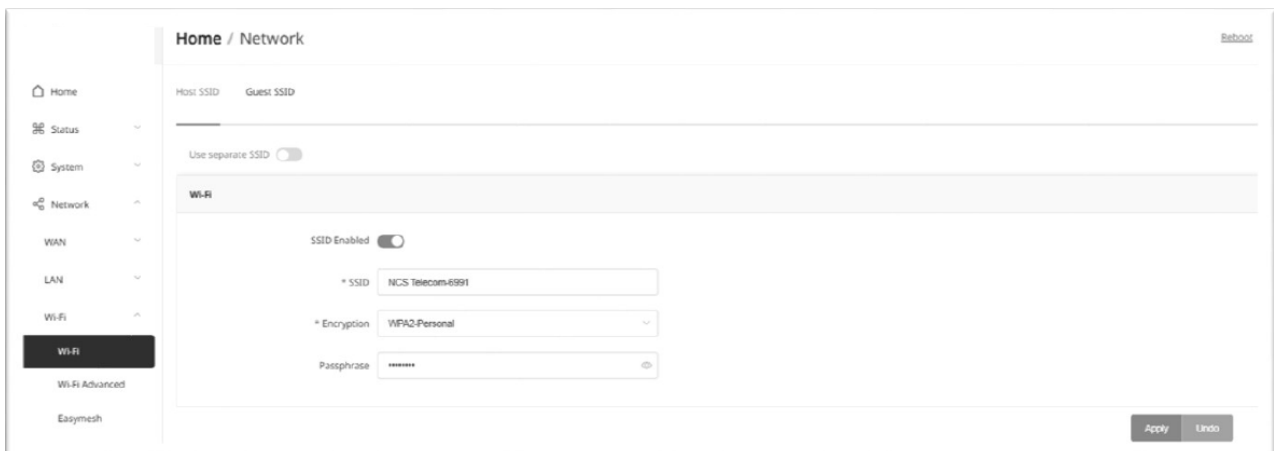


The screenshot shows the 'Home / Network' page with the 'WAN' tab selected. The settings are as follows:

- IP Version: IPv4 & IPv6
- Connection Type: DHCP
- MTU: 1500
- User Specify IPv4 DNS Servers: ☐ Enable ☒ Disable
- User Specify IPv6 DNS Servers: ☒ Enable ☐ Disable
- IPv6 Primary DNS: 2001:4860:4860::8888
- IPv6 Secondary DNS: 2001:4860:4860::8844
- IPv6 Address Mode: SLAAC
- IPv6 PD Mode: PD
- IPv6 Default Gateway: Auto

Buttons at the bottom right: Apply, Cancel, Reboot.

Wi-Fi Setting



The screenshot shows the 'Home / Network' page with the 'Wi-Fi' tab selected. The settings are as follows:

- Host SSID: Guest SSID
- Use separate SSID: ☐
- Wi-Fi:
 - SSID Enabled: ☒
 - * SSID: NCS Telecom-6991
 - * Encryption: WPA2-Personal
 - Passphrase: 12345678

Buttons at the bottom right: Apply, Undo.

Use separate SSID:

Enable: Use the same SSID/Password for dual-band

Disable: Separate SSID/Password for every band

SSID Enabled: On/off Wi-Fi

SSID: Name Wi-Fi

Passphrase: Password login to Wi-Fi



How to build a Mesh System

- Follow below steps to establish the mesh: (via Ethernet)

Step 1 : Please Make sure the CIG WF-810DF AP #1 as gateway is working normally with internet connection

Step 2 : Please power on the CIG WF-810DF AP #2 and use ethernet cable to connect the LAN ports on both #1 & #2 CIG WF-810DF APs.

(Top 3 ethernet ports in WF-810DF are the LAN ports.)

Step 3 : Waiting for a few minutes

Step 4: Check if the EasyMesh topo in the WF-810DF AP #1 is normally. (Web gui--->Status-->EasyMesh topo), or you can check the LED on the extender, when Mesh established, the LED should show solid white

Step 5: If you want to add more APs, please repeat the step 2.

Step 6: If you want to switch to wireless backhaul between APs, please unplug the ethernet cable and wait for a few minutes.

- Follow below steps to establish the mesh: (via WPS button)

1. Please Make sure the CIG WF-810DF AP #1 as gateway is working normally with internet connection.
2. Please power on the CIG WF-810DF AP #2. It will take no more than 3 minutes to bootup. (Check the LED if it is white pulsing 4s on,1s off)
3. Press WPS button both at CIG WF-810DF AP #1 and # 2 together. (Notice: the WPA pairing can only pair with one AP at a time.)
4. Waiting for a few minutes.
5. Check if the EasyMesh topo in the WF-810DF AP #1 is normally. (Web gui--->Status-->EasyMesh topo), or you can check the LED on the extender, when Mesh established, the LED should show solid white.
6. If you want to add more APs, please repeat the step 2 and step 3.
7. If you want to switch to wired backhaul between APs, please connect the ethernet cable between #1 & #2, then waiting for a few minutes.



Contact Information

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