AF792 User Manual

Version number：V1.0.1

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Product Introduction

AF792 is a high-speed portable 4G router that provides various network formats such as TDD-LTE/FDD-LTE/WCDMA for data networking and SMS functions. It supports China Unicom's 4G/3G data and SMS services, as well as China Mobile and China Telecom's 4G data services, and supports customization of foreign frequency bands; The router is designed with rich peripheral interfaces and a powerful software support platform, providing a friendly secondary development software and hardware platform that can support various peripheral devices and meet users' diverse business

functional needs.The product adopts an industry grade high-performance embedded architecture that supports wired WAN access to local area networks,Support wired LAN port access to 4G networks, support wireless WiFi local viewing, and provide reliable data transmission networking for the security field; Supports WiFi relay mode, suitable for home camera monitoring scenarios.

1.1 Product Features

>Supports TDD-LTE/FDD-LTE/WCDMA network standards.
>UI software supports SMS and phonebook functions
>Supports RNDIS mode, allowing you to connect to the internet without using modem dialing when plugging in a computer device
>Supports APN automatic network inspection, 3/4G format switching, and SIM information display
>Supports WPS functionality, allowing users to easily and securely connect to WIFI
>Support traffic statistics, set packages according to needs, set traffic and time reminders
>Support firewall functions, providing address filtering, port mapping, UPnP, DMZ, and other functions;
>Supports one WAN port, two LAN ports, and WiFi access, allowing multiple devices to access the internet simultaneously through the LAN

1.2 Basic parameters

The parameters of AF792 module are shown in Table 1: Basic parameters of AF792

Project		Describe
Name	AF792	Security routing module
structure	SIZE	49 mm x 38 mm x 8.5 mm
Wired network port	Wired network port	One WAN port and two LAN ports (multiplexing)
	Network port speed	10/100Mbps， Auto MDI/MDIX
WiFi	WiFi wireless LAN	Support 802.11b/g/n
	Antenna	I-PEX
	Coverage distance	30 meters in an open area
SIM card	SIM card	Nano-SIM card interface
	Antenna	I-PEX
Button	Reset button	One button reset
Led	Status	Power、Net
temperature	Work temperature	-20℃～+70℃
	storage temperature	-40℃～+85℃
humidity	Working humidity	5%~95% RH
	Storage humidity	1%~95% RH
Power	Power adapter	DC12V

	Power	Under DC12V power supply, the average current is 130mA, and the maximum current is 300mA
Frequency band information	FDD-LTE	Downlink rate 150Mbps, Upstream Rate 50Mbps
		Band 1/3/5
	TDD-LTE	Downlink rate 150Mbps, Upstream Rate 50Mbps
		Band 34/38/39/40/41
	WCDMA	Downlink rate 21Mbps, Upstream Rate 5.76Mbps
		Band 1/5

1.3 hardware description

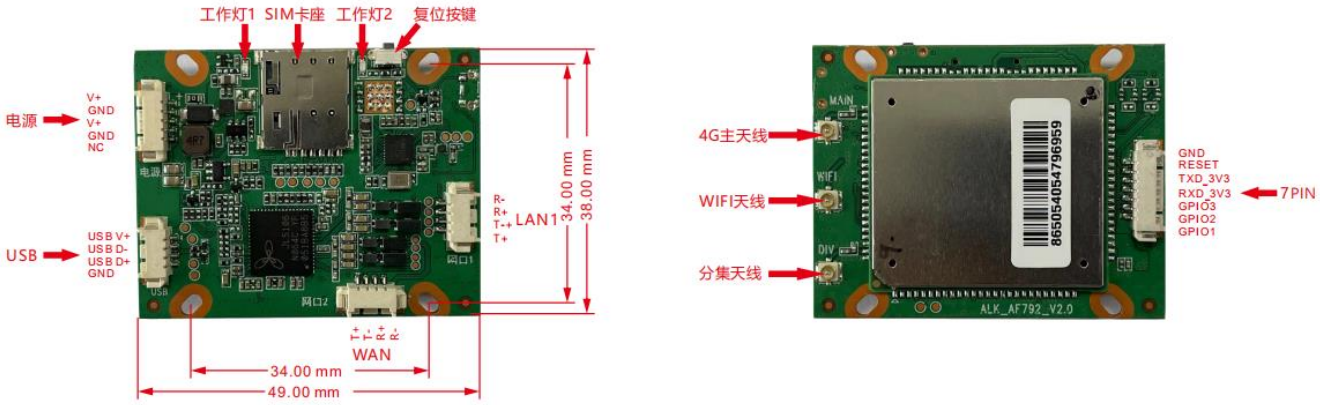


Figure 1 AF792 Dimensional Drawing

Product size：49.0*38.0*8.5mm（L*W*H）Installation method: fixed with holes or directly fixed with bolts

Hole size：33.0*33.0mm（L*W）

1.3.2 Interface Overview

Table 2: Interface and Status Indicator Description

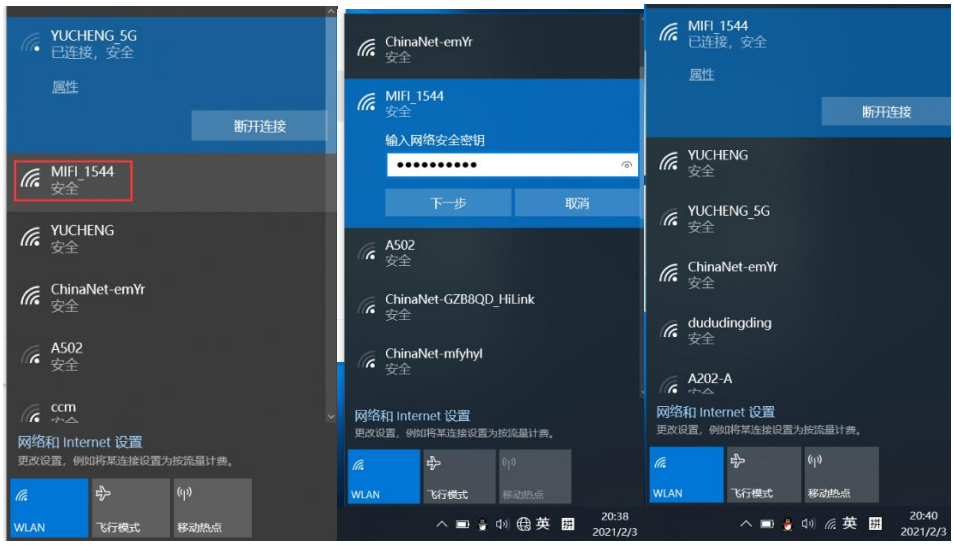
NO.	icon	Function
1	power interface	Module power supply interface, power supply requirement: DC12V
2	Work light 1	After the module is turned on and started, it remains on and flashes when there is a terminal connected to WIFI; The power supply is disconnected and the indicator light is off
3	Work light 2	Insert the Nano SIM card, and the module will flash after registering with the network and dialing successfully; The 4G network disconnection indicator light is constantly on
4	SIM card slot	Insert the Nano SIM card for connecting to the network
5	USB interface	Connect to the computer for debugging and data transmission of the module
6	Network interface	Provide wired data transmission for LAN terminals, used to connect computers or other LAN devices
7	GPIO+ Serial port	GPIO and serial debugging interface provided to customers
8	reset key	Press and hold the reset button for 5 seconds before releasing, the module returns to factory settings, and the device automatically restarts

2,Basic system functions

This chapter will introduce the basic functions of AF792, and the overall block diagram of the routing function is as follows

2.1,How to log into 4G router and manage router

A, Use a computer or mobile phone to connect to the WIFI of the 4G camera,



1 2 3

Use a computer to search for the WIFI signal of the camera. The WIFI name is the WIFI signal starting with MIFI-X, as shown in Figure 3. Select this WIFI signal and enter the connection password: 1234567890. Click the connect button, the computer will automatically connect to the camera via WIFI. As shown in Figure 4, the WIFI connection is successful.

B, Open the browser, enter the login address of the 4G router in the address bar of the browser: 192.168.100.1, enter the login user: admin, login password: admin, as shown in Figure 5.

If the system is displayed in Chinese, please change the language to English, as shown in Figure

2.2 UI Introduction

The device supports webUI function. After successfully connecting the device to a computer or mobile phone, enter 192.168.100.1 in the browser address, enter the password admin, and then click to confirm login; There is a language selection in the upper right corner, which defaults to Chinese and supports English.

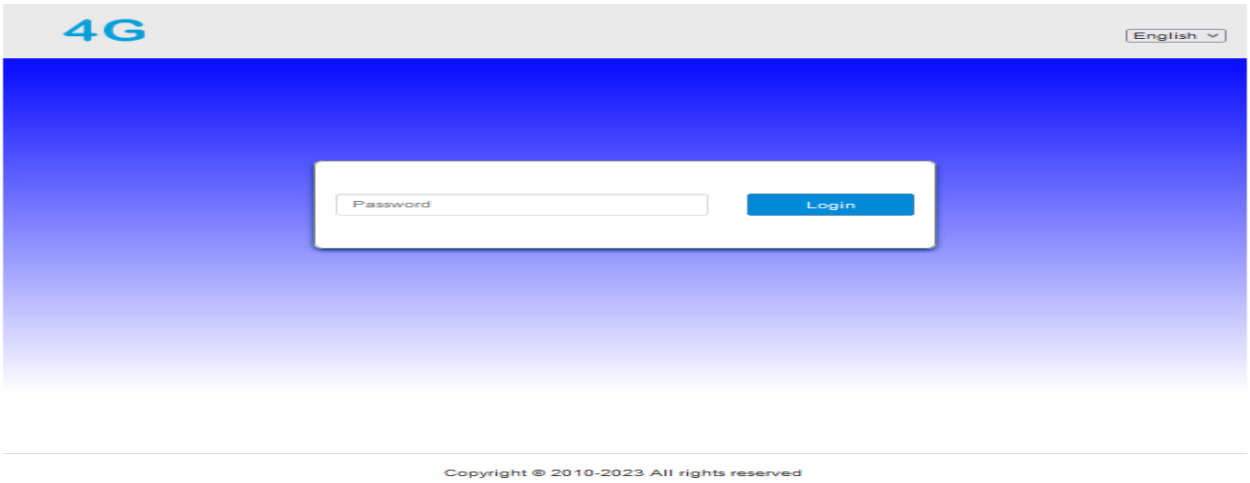


Figure 3 Login Interface

After logging in, you can make a series of settings for the router.

1) Home page: Display device connection status, signal strength, operator, card status, WiFi access count, IP address, software version, etc.

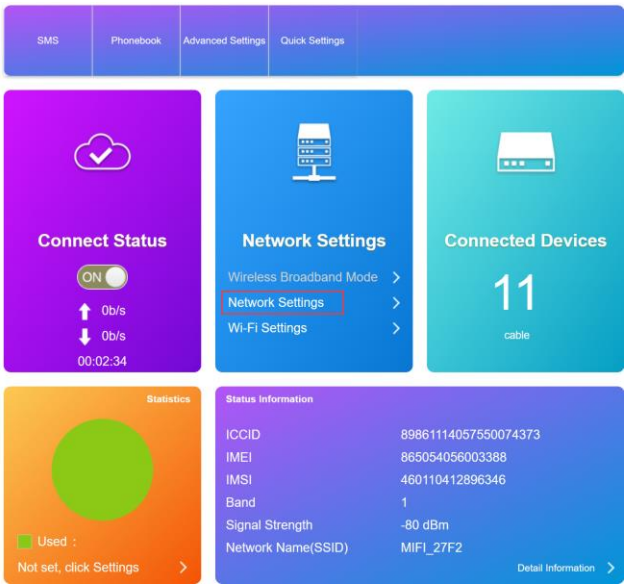
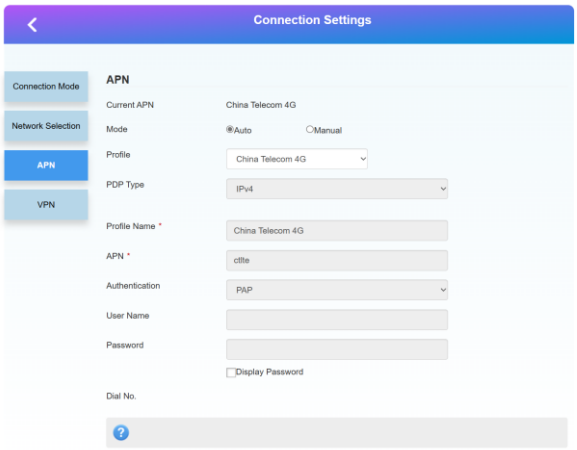
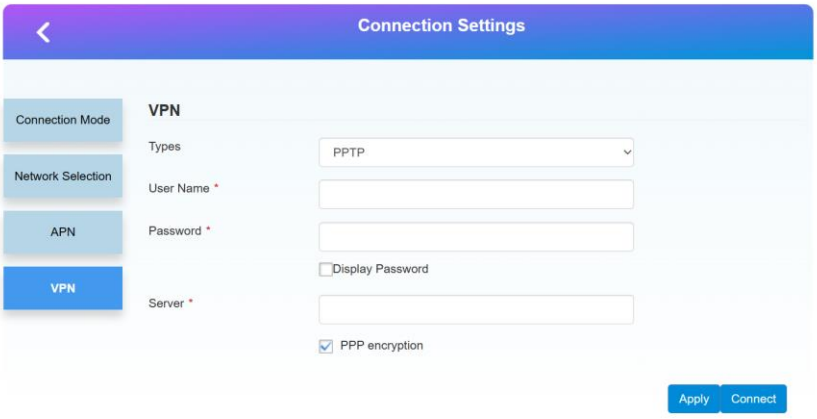


Figure 4 Home page interface

2) Network page: mainly for network settings, including settings for external network connections and wireless internal networks



APN setting



VPN Setting

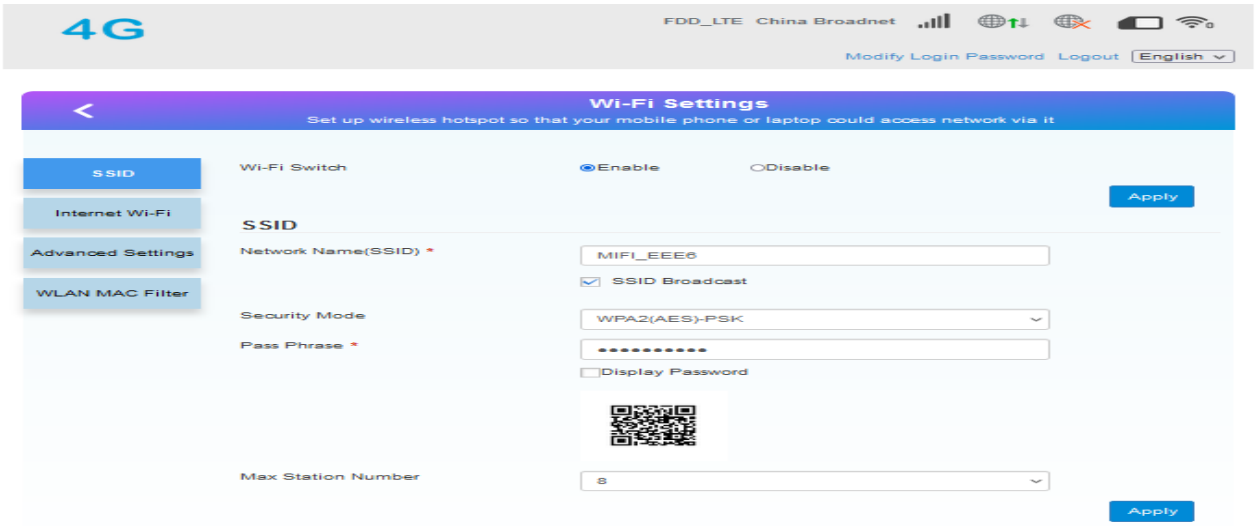


Figure 6 Wireless Intranet Interface

3) Advanced settings page: including routing, firewall, firmware upgrade, restart, factory reset, etc

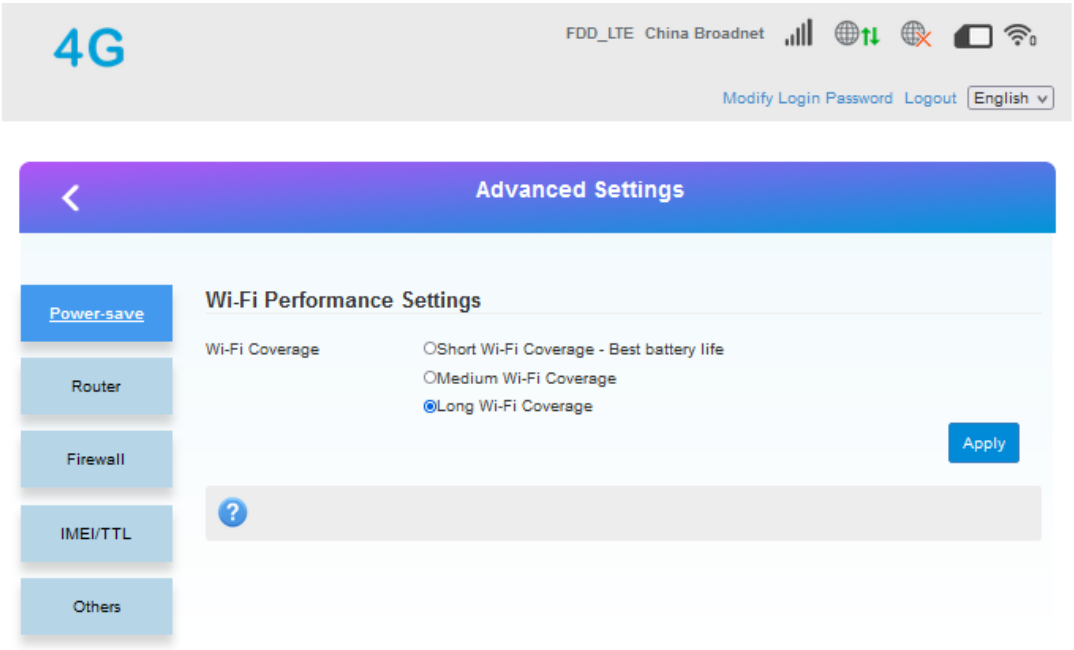
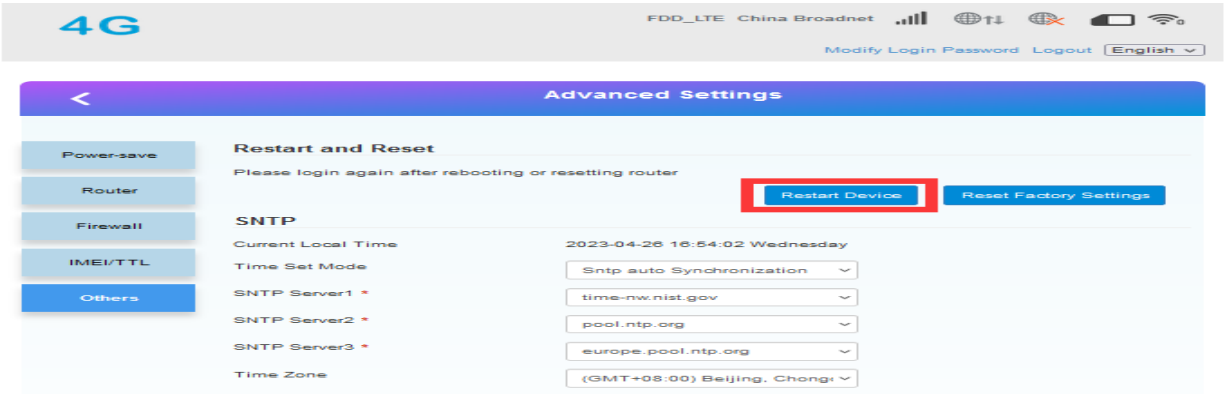


Figure 7 Advanced Settings Interface

2.3 Soft restart function

Support web based restart routers; The restart time is about 40 seconds, and after 40 seconds, the device fully starts successfully.



2.4 Restore Factory Settings Function

Support web based restoration of factory settings.

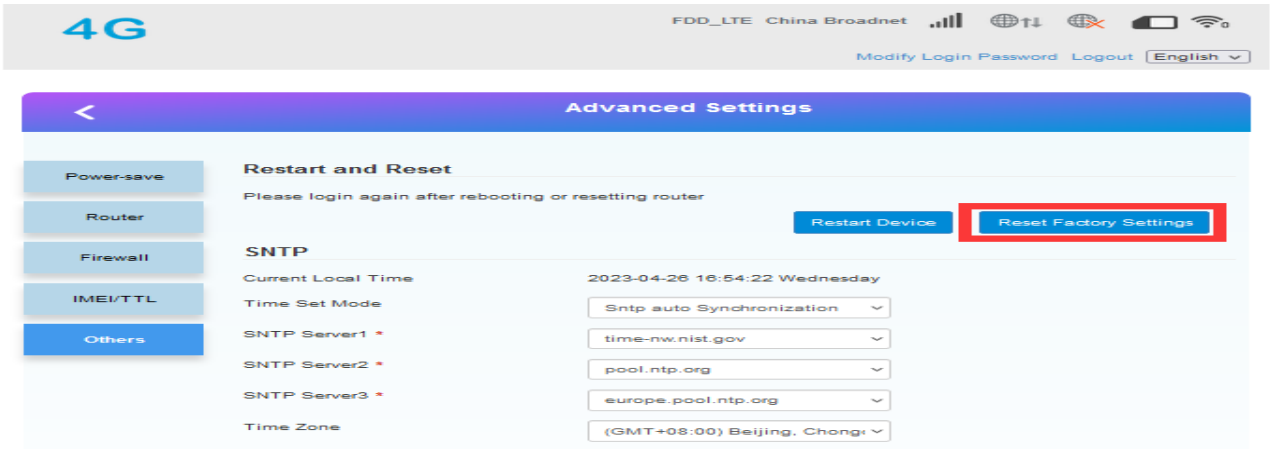


Figure 9 Restore Factory Settings Page

The module can also be restored to factory parameters by pressing the Reload button (hardware reset button).

Method: Press and hold for 5 seconds to release, and the router will automatically restore its factory parameter settings and restart

.contact information

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