

5G Industrial Router FNR500

User Manual

V1.0.1

*This manual applies to the following product model: FNR500.

Xiamen Four-Faith Communication Technology Co., Ltd. www.four-faith.com



Document Revision History

Date	Version	Version Remark		
2024-11-21	V1.0.0	English Version	YYL	
2025-04-30	V1.0.1	New WEB Version	Jonas	





Note: There may be differences in accessories and interfaces for different models. Please refer to the actual product for details.



Copyright Declaration

All materials or contents contained in this document are protected by copyright law. All Copyrights are owned by Xiamen Four-Faith communication technology co., LTD. Four-Faith without company's written permission, any person may not be any content in any way on this document copying, distribution, reproduction, connection, transmission, such as the use of any commercial purposes, but for noncommercial purposes, personal use, download or print (on the condition that may not be modified, and shall retain the copyright in the material or other ownership).

Trademark Statement

Four-faith is registered trademarks of Xiamen Four-Faith communication technology co., LTD. Without prior written permission, no one shall use the name of Xiamen Four-Faith and the trademarks and

marks of Four-Faith in any way.

Contact Us

Address:

11th Floor, Building A06, No. 370 Chengyi Avenue, Software Park Phase III, Jimei District, Xiamen, Fujian Province, China

Website: www.four-faith.com

Hotline: 400-8838-199

Phone: +86-592-6300320 / 6300321

Postal Code: 361021

Email: info@four-faith.com



Contents

Chapte	[•] 1 Product Introduction	. 1
1.1	Product Overview	1
1.2	Block Diagram of Working Principle & Key Feature	2
Chapte	[•] 2 Installation	. 3
2.1	Overview	3
2.2	Packing List	3
2.3	Installation and Cable Connection	4
2.4	Power Supply	7
2.5	Indicator Lights	7
2.6	Reset Button	8
Chapte	[•] 3 Parameter Configuration	. 9
3.1	Configuration Connection	9
3.2	Access to the Configuration Page	9
3.2	2.1 PC IP Address Setting(two methods)	9
3.2	2.2 Access to Configuration Web Page	10
3.3	Startup Guide	11
3.4	Navigation Bar	13
3.5	Operating Status	13
3.6	Network Setting	13
3.0	5.1 WAN	18
	3.6.1.1 WAN	18
	3.6.1.2 Global Setting	22
3.0	5.2 LAN	22
3.0	5.3 WIFI	22
	3.6.3.1 WIFI	24
	3.6.3.2 Virtual Interface	25
3.0	5.4 VPN	25
	3.6.4.1 PPTP	25
	3.6.4.2 L2TP	26



	3.6.	4.3	OPENVPN	28
	3.6.	4.4	IPSEC	31
	3.6.	4.5	GRE	35
	3.6.	4.6	GRETAP	36
	3.6.	4.7	VXLAN	37
	3.6.	4.8	EOIP	37
	3.6.	4.9	FRP	38
	3.6.5 I	NAT		39
	3.6.	5.1	Port Forwarding	39
	3.6.	5.2	DMZ	41
	3.6.	5.3	Virtual IP Setting	41
	3.6.6	VLAN	۱	42
	3.6.7 E	Bridg	Je	42
	3.6.8 F	Rout	ing	44
	3.6.9 l	LAN	Settings	46
	3.6.10	MAC	Clone	46
3.7	′ Ар	plic	ation Setting	46
	3.7.1 A	ctive	Policy	46
			ty Policy	
	3.7.2 Se	ecuri	ty Policy	46
	3.7.2 Se 3.7.	ecuri 2.1	IP Restriction	46 47
	3.7.2 Se 3.7. 3.7.	ecuri 2.1 2.2	IP Restriction URL Restriction	46 47 47
	3.7.2 Se 3.7. 3.7. 3.7.	ecuri 2.1 2.2 2.3	IP Restriction URL Restriction MAC Restriction	46 47 47 47
	3.7.2 Se 3.7. 3.7. 3.7. 3.7. 3.7.	ecuri 2.1 2.2 2.3 2.4	IP Restriction URL Restriction MAC Restriction Firewall	46 47 47 47 47
	3.7.2 Se 3.7. 3.7. 3.7. 3.7. 3.7. 3.7.	ecuri 2.1 2.2 2.3 2.4 2.5	IP Restriction URL Restriction MAC Restriction Firewall WEB Access	46 47 47 47 47 47
	3.7.2 Se 3.7. 3.7. 3.7. 3.7. 3.7. 3.7. 3.7.	ecuri 2.1 2.2 2.3 2.4 2.5 QO	IP Restriction URL Restriction MAC Restriction Firewall WEB Access S	46 47 47 47 47 49 49
3.8	3.7.2 Se 3.7. 3.7. 3.7. 3.7. 3.7. 3.7.3 3.7.3	ecuri 2.1 2.2 2.3 2.4 2.5 QO aint	IP Restriction URL Restriction MAC Restriction Firewall WEB Access S enance	46 47 47 47 47 49 49 49 46
3.8	3.7.2 Se 3.7. 3.7. 3.7. 3.7. 3.7. 3.7.3 3.7.3 3.7.3 Ma 3.8.1	ecuri 2.1 2.2 2.3 2.4 2.5 QO aint Diag	IP Restriction URL Restriction MAC Restriction Firewall WEB Access S enance gnostics	46 47 47 47 47 49 49 49 49 40
3.8	3.7.2 Se 3.7. 3.7. 3.7. 3.7. 3.7.3 3.7.3 Ma 3.8.1 3.8.2	ecuri 2.1 2.2 2.3 2.4 2.5 QO aint Dia	IP Restriction URL Restriction MAC Restriction Firewall WEB Access S enance gnostics work Tools	46 47 47 47 47 49 49 49 40 50 50
3.8	3.7.2 Se 3.7. 3.7. 3.7. 3.7. 3.7.3 3.7.3 Ma 3.8.1 3.8.2 3.8.3	ecuri 2.1 2.2 2.3 2.4 2.5 QO aint Dia Net Cor	IP Restriction URL Restriction MAC Restriction Firewall WEB Access S enance gnostics work Tools nmand Debugging	46 47 47 47 47 49 49 49 49 50 50 51
3.8	3.7.2 Se 3.7. 3.7. 3.7. 3.7. 3.7.3 3.7.3 3.8.1 3.8.2 3.8.1 3.8.2 3.8.3 3.8.4	ecuri 2.1 2.2 2.3 2.4 2.5 QO Dia Dia Net Cor Log	IP Restriction URL Restriction MAC Restriction Firewall WEB Access S enance gnostics work Tools mmand Debugging	46 47 47 47 47 49 49 49 49 50 50 51 52
3.8	3.7.2 Se 3.7. 3.7. 3.7. 3.7. 3.7.3 3.7.3 3.8.1 3.8.2 3.8.3 3.8.4 3.8.5	ecuri 2.1 2.2 2.3 2.4 2.5 QO Dia Dia Dia Cor Log Traf	IP Restriction URL Restriction MAC Restriction Firewall WEB Access S enance gnostics work Tools nmand Debugging Management ffic Statistics	46 47 47 47 47 49 49 49 49 50 50 51 51 52 53
3.8	3.7.2 Se 3.7. 3.7. 3.7. 3.7. 3.7.3 3.7.3 Ma 3.8.1 3.8.2 3.8.3 3.8.4 3.8.5 3.8.6	ecuri 2.1 2.2 2.3 2.4 2.5 QO aint Dia Dia Dia Cor Log Traf	IP Restriction URL Restriction MAC Restriction Firewall WEB Access S enance gnostics work Tools mmand Debugging Management ffic Statistics rage Settings	46 47 47 47 47 49 49 49 49 50 50 51 51 52 53 54



	3.8.7.1	SSH	
	3.8.7.2	Telnet	55
	3.8.7.3	SNMP	
3.9	Cloud	Platform Management	
3.10	Syster	n Management	
3.1	0.1 Sys	tem Settings	56
3.1	0.2 Log	jin Management	56
3.1	0.3 Res	store to Factory Defaults	56
3.1	0.4 Cor	nfiguration Backup	58
3.1	0.5 Firr	nware Upgrade	58
Append	ix		错误!未定义书签。



Chapter 1 Product Introduction

1.1 Product Overview

The FNR500 is a dual-SIM dual-module 5G IoT wireless communication router that leverages public 3G/4G/5G networks to provide users with wireless, long-distance, large data transmission capabilities.

This product features a high-performance industrial-grade 32-bit communication processor and an industrial-grade wireless module. It uses an embedded real-time operating system as the software support platform, providing 1 Gigabit Ethernet WAN/LAN port, 4 Gigabit Ethernet LAN ports, 1 USB interface, and 1 RS232 (or RS485) port. It supports simultaneous connections to serial devices, Ethernet devices, and WiFi devices, enabling transparent data transmission, WiFi 6, VxLAN, and intelligent dual-link switching between primary and backup SIMs, along with routing functionality.

The product has been widely applied in the IoT industry chain across M2M sectors such as smart grids, intelligent transportation, smart homes, finance, mobile POS terminals, supply chain automation, industrial automation, smart buildings, fire protection, public safety, environmental protection, meteorology, digital healthcare, remote sensing exploration, military, space exploration, agriculture, forestry, water resources, coal mining, petrochemical industries, and more.





1.2 Block Diagram of Working Principle & Key Feature

5G Router Working Principle:



Key Features of the Product:

- Supports 5G LAN functionality
- Enables dual 5G intelligent switching
- Provides intelligent load balancing for data stream distribution
- Supports dual-link intelligent failover and backup for 3G/4G/5G and wired WAN
- Compatible with VPN protocols including PPTP, L2TP, GRE, IPSEC, and OPENVPN
- Supports remote management via SYSLOG, SNMP, TELNET, SSHD, and HTTPS
- Includes SPI firewall, VPN passthrough, access control, and URL filtering
- WiFi supports multiple encryption methods such as WEP, WPA, WPA2, and MAC address filtering
- Supports lock screen, cell lock, EOIP, bridge mode, VxLAN, virtual IP, and GRETAP functionality
- Supports multiple DHCP servers, DHCP-MAC address binding, DDNS, firewall, NAT, DMZ host,
- QoS, traffic statistics, VLAN management, and segmentation
- Supports various WAN connection methods including Static IP, DHCP, PPPoE, 3G/UMTS/4G/LTE, and DHCP-4G/5G
- Facilitates local and remote online upgrades and configuration file import/export
- Supports NTP and built-in RTC
- Compatible with a wide range of domestic and international DDNS providers
- Includes VLAN, MAC address cloning, and PPPoE server support
- WiFi supports 802.11b/g/n/ac/ax and multiple operating modes including WiFi AP, AP Client, repeater, and relay bridge (optional)
- Offers multiple online/offline triggers such as SMS, phone ring, serial data, and network data
- Supports APN/VPDN
- Features multiple DHCP servers and clients, DHCP-MAC address binding, DDNS, firewall, NAT, DMZ host, QoS, traffic statistics, and real-time data transfer rate display
- Compatible with network protocols including TCP/IP, UDP, FTP (optional), and HTTP



Chapter 2 Installation

2.1 Overview

5G routers must be installed correctly to achieve the designed functions. Usually the installation of the equipment must be carried out under the guidance of qualified engineers approved by the company.

Caution: Do not install the 5G router while it is powered on.

2.2 Packing List

When you open the box, please keep the packing materials, so that you can use it when you need to transfer in the future.

The list is as follows:

- 1 x 5G router host
- 8 x 5G wireless cellular antennas (SMA male)
- x WIFI antenna (SMA female)
- 1 x Matching power supply
- 1 x Ethernet direct connection
- 1 x Warranty card



2.3 Installation and Cable Connection





5G Router Dimension

Antenna Installation:

The 5G antenna interface is an SMA female socket(4 "5G-1", 4 "5G-2"). Screw the SMA male of the matching wireless cellular antenna to the antenna interface and make sure to tighten it. To increase the isolation of the 5G antenna, try to keep the antenna at an angle of 30 degrees to enhance signal quality. Figure as follow.





The WIFI antenna interface is an SMA male socket("WiFi1", "WiFi2"). Screw the SMA female of the matching WIFI antenna to the antenna interface and make sure to tighten it. In addition, to increase the isolation of the Wi-Fi antenna, it is recommended that the two Wi-Fi are placed at a 90-degree angle.



SIM/UIM Card Installation:



Not Installed

Installed

SIM-1 and SIM-2 chip orientation: SIM-1 chip faces downward, SIM-2 chip faces upward

- Installing SIM/USIM Card: When inserting a Micro SIM card, orient the SIM-1 chip facing downward and the SIM-2 chip facing upward. Use a pointed object to push the SIM card inward until it is securely fixed.
- Removing SIM/USIM Card: Use a pointed object to press the SIM card. Once the card pops out, remove it.



Connecting Network Cable:

Insert one end of the network straight-through cable into any of the LAN1~LAN4 ports on the 5G router, and the other end into the Ethernet interface of the user device. The signal connections for the network straight-through cable are as follows:

RJ45-1	RJ45-2	Wire Color
1	1	White/Orange
2	2	Orange
3	3	White/Green
4	4	Blue
5	5	White/Blue
6	6	Green
7	7	White/Brown
8	8	Brown



Connect Console Cable:

Plug the RJ45 end of the Console line into the Console interface (RS232) of the Router and plug the DB9 end into the RS232 serial interface of the user device. The signal connections of the Console are as follows:

Console Wire Signal Definition(RS232)								
RJ45	Wire Color	Signal Definition	DB9F	Signal Description				
1	White/Orange	А	8	RS485-A (Optional)				
2	Orange	В	6	RS485-B (Optional)				
3	White/Green	RXD	2	RS232 Receive Data				
4	Blue		1					
5	White/Blue	GND	5	Power Light				
6	Green	TXD	3	RS232 Send Data				
7	White/Brown		4					
8	Brown		7					





2.4 Power Supply

5G routers are usually used in complex external environments. To adapt to the complex application environment and improve the stability of the system, the router adopts advanced power supply technology. Users can use the standard 12VDC/1.5A power adapter to power the 5G router, or directly use the DC 9~36V power supply to power the router. When the user uses an external power supply to power the router, the stability of the power supply must be ensured (the ripple is less than 300mV, and the instantaneous voltage does not exceed 36V), and the power supply must be greater than 8W.

It is recommended to use the standard 12VDC/1.5A power supply.

2.5 Indicator Lights



5G Router provide indicators as below: "Power", "System", "WIFI", "Online1", "Online2", "Signal":

Indicator	Status	Content
Device	On	Device powered on
Power	Off	Device not powered on
Orienteuro	Flashing	System running normally
System	Off	System running abnormally
Oplined	On	SIM 1 is online
Online	Off	SIM 1 is not online
Online2	On	SIM 2 is online
Onlinez	Off	SIM 2 is not online



	On 2.4G or 5.8G is on, or are both on			
VVIFI	Off	2.4G and 5.8G are both off		
	Off	WAN port not connected		
VVAN	On/Flashing WAN port connected/communicating			
	Off	LAN port not connected		
LAN1~LAN4	On/blank LAN port connected/communicating			
	One light on	Weak(<-90dBm)		
Signal Strength	Two lights on	Medium(-70dBm~-90dBm)		
U U	Three lights on	Good(>-70dBm)		

Note: The indicator lights for the WAN and LAN ports only show green; the yellow light is not active.

2.6 Reset Button

The 5G router has a reset button, marked as "RST"

The function of this button is to restore the parameter configuration of the 5G router to factory values

Methods as below: Power on device, let it running for 30 seconds, use a pen keep pressing the reset button for about 15 seconds, until all led turn off, the device will restart and reset to factory.



Chapter 3 Parameter Configuration

3.1 Configuration Connection

Before configuration, you should connect the Router and your configuration PC with the supplied network cable. Plug the cable's one end into the Local Network port (LAN Port) of the Router, and another end into your configure PC's Ethernet port. When connecting via WiFi, the factory default SSID for the 5G router is "FOUR-FAITH", and no password is required. The connection diagram is as following:



3.2 Access to the Configuration Page

3.2.1 PC IP Address Setting (Two methods)

The first method: Obtain an IP address automatically:



The second way: specify the IP address



Set the PC's IP address to 192.168.4.9 (or any other IP address within the 192.168.4 subnet), subnet mask to 255.255.255.0, and default gateway to 192.168.4.1. Set the DNS to the gateway address or a locally available DNS server.

You can get IP settings assigned this capability. Otherwise, you n for the appropriate IP settings.	d automatically if your network supports need to ask your network administrator
O Obtain an IP address autor	matically
• Use the following IP addres	ss:
IP address:	192.168.4.9
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	192.168.4.1
Obtain DNS server address	s automatically
• Use the following DNS serv	er addresses:
Preferred DNS server:	8.8.8.8
Alternate DNS server:	

3.2.2 Access to Configuration Web Page

This chapter describes the main functions of each page. The web-based tool can be accessed through a computer connected to the 5G gateway using a web browser. There are a total of seven main pages: Operation Status, Data Acquisition Application, Network Settings, Application Settings, Operation & Maintenance Settings, Cloud Platform Management, and System Management. Clicking on any of these main pages will display additional subpages.

To access the web-based management tool of the 5G gateway, launch Internet Explorer or another browser, enter the default IP address of the 5G gateway (192.168.4.1) in the address bar, and press Enter. If this is the first time logging into the web interface, a page will appear prompting the user to change the default username and password of the 5G gateway. To set a custom username and password, click the "Change Password" button to apply the changes.



After access to the information main page.



3.3 Startup Guide

(1) The default IP address of the gateway is 192.168.4.1. Before accessing it, please set your computer to the same subnet or configure it to obtain an IP address automatically. As shown in the figure, this is the startup guide page for the initial gateway configuration. The default username and password for the first login are both admin.

		Auto	中文	English
	FNR500 Login Please			
A C Prese C	admin Password enter your password Login			

Change Login Password	WAN	Wireless Setting	Cloud Platform Settings	Initialization Completed
The login password i configured. The pass	s the password used to acc word needs to be reset whe	ess the device management page. In the device is first used.	With this password, all device parame	ters can be viewed and
	* Re-enter	Password Can not be empty To Confirm		
		Previous Next Skip user	guide	

(3) Perform the initial configuration based on the network environment. If the gateway connects to the internet via a SIM card, select Cellular Network. If it uses a wired connection, select Ethernet. When choosing Ethernet, ensure that the corresponding IP fields are configured correctly in order to access the internet.



(4) Users can choose whether to enable the Wi-Fi hotspot and set a password as needed.

Change	Login Password	WAN	W	/ireless Se	etting	Cloud Platform Settings	Initialization Completed
	Configure wireless settings.						
		2.4G					
			Enable				
			* SSID	Four-Faith			
			* Security Mode	Open	~		
		5G					
			Enable				
			* Security Mode	Open	_5G		
			Previous	Next	Skip user guide		

(5) After configuring the cloud platform, it enables convenient remote operations, NAT traversal, and other functions through the cloud platform.

Change Logir	Password	WAN	Wireless Setting	Cloud Platform Settings	Initialization Completed
C)	<u> </u>	<u> </u>		O
	The Device Cloud Pla penetration of operation subsequent remote op to Device Cloud to reg	tform supports remote op on and maintenance sub peration of devices. To us gister and log in for use. c	peration and maintenance device p device firmware, data reports, etc e the Device Cloud Platform, you levice.fourfaith-cloud.com	parameter configuration, upgrading device . Configuring devices to the Device cloud need to register a Device Cloud account i	firmware, intranet platform can facilitate n advance. Click to go
		Cloud Platform	Connection		
			* Platform • Four-Faith Clou Private Cloud	ıd	
			Previous Next Skip us	ser guide	



(6) Initialization is complete, and the device now has basic internet access. For more advanced configurations, parameters need to be set in the corresponding sections.

3.4 Navigation Bar



From left to right: cellular signal, cloud platform connection indicator, reboot button, language options, and a button to switch back to the legacy router page.



3.5 Operating Status

The homepage displays the operating status of the router. On this page, you can view the status parameters of all modules in a centralized manner. The following sections introduce each module.

FNR500	E Home / Home		Talo Talo 😒 🐃 🎒 🗖 🗖 🌢
 Home Network ~ 	WELCOME!	© CPU 10.4%	Memory (111.59MBH499 99MB) Up Rate 0 B/s 22.3% Up Rate 0 B/s Down Rate 0 B/s
Application ~	Device Info	Internet Online Online Setup>>	Wireless Setup >>
Maintenance Cloud MGT	Name: Four-Faith Model: FNR500 SN: FJ4160808409	att att	2.4G Access Point 5G Access Point
08 System ∨	Netroin: SIM1 MAC: 50:00 28:457 95:59 Firmware: 12:37:41 93 Sys Tim: 20:204-41:60 92:03.8 Sys Liptime: 0days 00:06:28	Protocol: SM1-1-46/5G Uptime: IP: 0.0.00 DNS: Mask: 0.0.00 Diagnosis> Gateway: 0.0.00 IPN6:	SSID: Four-Fath, SSID: Four-Fath, 5G Passuod: Territory Passuod: Territory Encryption: Open Encryption: Open Devices: 0 Devices: 0 More>> More>>
	LAN Port Connected Dide Setup >>	4G/5G Cellular Network Setup >>	
		SIM2 SIM1 Not Davied.	
	MAC: 54.00.84.57.96.59 DHCP: Exable IP Address: 192.158.4.1 IP Start: 192.158.4.100 Mark: 255.255.255.0 IP End: 192.168.4.150 Local DNS: 0.0.0 Devices: 1	Operator: - IMS: Netroxi: - BAND: - Signat: - Moter>>	

Real-time Operating Parameters:

In the top bar, you can see the CPU usage, memory consumption, and the real-time upload and download speeds of the internet connection. These data dynamically update in real-time as the device operates.

WELCOME	-	CPU		Memory (111.61MB/499.99MB)	†1	Up Rate:0 B/s
FNR500	-	9.7%	-	22.3%	14	Down Rate:0 B/s



Device Information:

- **Product Name**: The name of the device, which can be changed in the System Management System Settings.
- **Product Model**: Displays the specific model of the device.
- **Device SN**: The serial number (SN) of the gateway, which uniquely identifies the device.
- **Current Network**: The current internet connection. If connected via a wired network, it will display "Ethernet."
- **MAC**: The MAC address of the device.
- Firmware Information: The current firmware version.
- System Time: The current system time.

Device Info	
Name: Four-Faith	
Model: FNR500	
SN: FJ4160808409	
Network: SIM1	
MAC: 54:D0:B4:57:9E:59	
Firmware: FNR500 v1.0 (Sep 10 2024 12:37:44) std	
Sys Time: 2025-04-18 09:21:35	
Sys Uptime: 0days 00:07:25	

Internet Connection:

This module displays the WAN port connection information.

- Main Link: Green indicates normal connection, while gray means not yet connected.
- **Protocol**: The type of device connected to the WAN port.
- IP: The WAN IP address.
- Subnet Mask: The subnet mask for the device's internet connection.
- Gateway: The configured gateway IP address.
- DNS: The configured DNS address.
- **Uptime**: The duration since the WAN successfully dialed for internet connection.

nternet		Online Offline Setup >>
Main	Backup	
Protocol:	SIM1 - 4G/5G	Uptime:
IP:	0.0.0.0	DNS:
Mask:	0.0.0.0	Diagnosis>>
Gateway:	0.0.0.0	
IPv6:	-	



Clicking on "Setup" allows you to configure the internet connection link, as shown in the image.

I Link Option				
Enable WAN Failover				
1				
* Connection Type	SIM1 - 4G/5G	~	Username	
Password			APN	cmnet
* Connection type	AUTO	~	PIN Code	
* Keep Online Detection	Ping	~		
* Detection Interval	120	S	* Main Detection IP	223.5.5.5

Clicking on " Diagnosis" allows for detailed network analysis, as shown in the image.

* Diagnostic Content	Network \lor	
	Diagnosing	
agnostic Results		
	DNS resolution failed, please check if the correct DN	IS address is set. If it is a dedicated network card,
	please ignore it	
Main Link		
Network Config	SIM1 - 4G/5G	Normal
WIFI STA	Status: Not Connected	Error
	Channel: Channel 48	
	Signal:%	
	RSSI: dBm	
	Please check if the SSID or password is correct	
Bkup Link		
Network Config	SIM2 - 4G/5G	Normal

Wireless

Displays information related to the dual-band WiFi. By clicking on "Settings," you can access more detailed wireless (WiFi) settings. WiFi supports AP and client bridge modes, and you can also view information about devices connected to the WiFi.



/ireless		Setup >	>		
2.4G Acces	ss Point 50	Access Point			
SSID: Four-Fait	h s	SSID: Four-Faith_5G			
Password: ******	Pass	word: ******			
Encryption: Open	Encry	ption: Open			
Devices: 0	Dev	vices: 0			
Moress		Moress			
Wore>>		WOICZZ			
Virtual Interface					
4G					
Enable					
* Wireless Mode	Access Point				
Wileless Mode	Access Point Only	·			
* 9910	Four Foilb			* Pogurity Modo	0.000
- 5510	Four-Faith			- Security Mode	Open
* Signal	Through Walls	~		Hide SSID	
			> Advance		
G					
Enable					
* Wireless Mede	Access Daint				
wireless Mode	Access Point Only				
* 0010	Feur Feilh 50			* Coquity Mada	0.000
^ SSID	Foul-Faitn_5G			- Security Mode	Open
* Signal	Through Walls	~		Hide SSID	

LAN Port

- 1. If the port is displayed in green, it indicates that a device is connected; if it is displayed in gray, it means no device is connected.
- MAC Address: The MAC address of the LAN port.
- IP Address: The gateway's IP address in the local area network (LAN).
- Subnet Mask: The gateway's subnet mask.
- Client: Click to view information about the connected device.
- Setup: Click to access detailed LAN port parameter settings.

LAN Por	t		Connected Idle Se	etup >>
LAN1	LAN2	LAN3	LAN4	
MAC:	54:D0:B4:57:9E:59		DHCP: Enable	
IP Address:	192.168.4.1		IP Start: 192.168.4.100	
Mask:	255.255.255.0		IP End: 192.168.4.150	
Local DNS:	0.0.00		Devices: 1	





Click "Setup" to view configuration:

			No Data			
No.	IP A	iddress		Mask	✓ Select All	Operation
tiple LAN IP					Colored AT	
			> Advance			
* IP Start	192.168.4 100		* Maximum DHCP Users	50		
* DHCP Type	DHCP Server V		DHCP Server			
Р						
* Gateway	0.0.0.0		* Local DNS	0.0.0.0		

Cellular:

When the main link is set to cellular, if the dial-up is successful, the related cellular information will be displayed. Clicking "More" will show detailed cellular information. If the main link is set to wired mode, no dial-up will occur, and no cellular information will be displayed.

4	IG/5G Cellular Network			Setup >>
	SIM2		Not Dialed	
	Operator: Network:	IMSI: BAND:		
	Signal:	More>>	•	

Serial Port:

When a device is connected to the serial port and a subdevice has been successfully added, the serial port will be green; otherwise, it will be gray. Below, the parameters of each serial port and the number of connected devices are displayed. Click to view details.



3.6 Network Setting

3.6.1 WAN

3.6.1.1 WAN

Link Option			
Enable WAN Failover			
1			
* Connection Type	SIM1 - 4G/5G 🗸 🗸	Username	
Password		APN	cmnet
* Connection type	AUTO \lor	PIN Code	
* Keep Online Detection	Ping ~		
Detection Interval	120 S	* Main Detection IP	223.5.5.5
* Backup Detection IP	208.67.220.220		

Dual Link Configuration Options

Dual Link Option

Enable WAN Failover

This option allows you to enable or disable dual-link functionality, meaning whether two links are active. Disabling this option means only the main link is active, and the backup link will not work. When enabled, you will see configuration options for dual links being online simultaneously, which works as follows:

• **Enabled**: When the main link is online, all default data is sent through the main link to the Internet. If the main link goes offline and the backup link is online, the system will switch to the backup link, sending the default data through the backup link to the Internet. Meanwhile, the main link will continuously try to reconnect. Once the main link reconnects, the system will switch back to the main link. In summary, the main link is prioritized, and the backup link serves as a backup.

Note: When both SIM cards are online, enabling load balancing and traffic distribution, the detailed data flow will be explained in the load balancing menu.

Attention: When the dual-link backup function is enabled, if the "Main Link Connection Type" or "Backup Link Connection Type" is set to "Static IP" or "DHCP," the corresponding online persistence function must be configured. For detailed configuration, refer to the online persistence description. The "Main Link Connection Type" and "Backup Link Connection Type" cannot be the same, and they cannot share the same physical WAN port.



Main Link/Backup Link

Select the Internet connection type from the dropdown menu. There are 8 WAN connection types available:

|--|

 M	ain	

* Connection Type Disable

Disables the WAN port connection type.

2. Static IP			
* Connection Type	Static IP V	* WAN IP Address	0.0.0.0
* Mask	0.0.0.0 ~	* Galeway	0.0.0.0
* Static DNS	+		
* Keep Online Detection	Ping ~		
* Detection Interval	120 S	* Main Detection IP	223.5.5.5
* Backup Detection IP	208.67.220.220		

This connection type is commonly used for business fiber optic or leased line access. The broadband service provider will provide details such as the IP address, subnet mask, gateway, and DNS, which need to be configured on the 5G gateway.

- WAN IP Address: The IP address set by the user or provided by the ISP.
- Subnet Mask: The subnet mask set by the user or provided by the ISP. •
- Gateway: The gateway set by the user or provided by the ISP.
- Static DNS: The static DNS set by the user or provided by the ISP.

3. Automatic Configuration – DHCP

Main	Configuration		
* Connection Type	DHCP ~)	
* Keep Online Detection	Ping ~		
* Detection Interval	120 S	* Main Detection IP	223.5.5.5
* Backup Detection IP	208.67.220.220		

This connection type is commonly used for cable TV (Cable) or some residential broadband services, such as Shenzhen Tianwei Video and Shanghai Cable Communication. The WAN port's IP address is obtained via DHCP.

4. PPPOE			
* Connection Type	PPPoE ~	Usemame	
Password			
* Keep Online Detection	Ping ~		
* Detection Interval	120 S	* Main Detection IP	223.5.5.5
* Backup Detection IP	208.67.220.220		

This connection type is typically used for ADSL broadband services from China Telecom and China Netcom, as well as other broadband providers. The PPPOE connection type requires the ISP to provide a username and password, which need to be configured on the 5G gateway.

- Username: The username used to log in to the Internet.
- **Password**: The password used to log in to the Internet.

aith				FNR500 Us
4G/5G				
* Connection Type	SIM1 - 4G/5G	~	Username	
Password			APN	cmnet
* Connection type	AUTO	~	PIN Code	
* Keep Online Detection	Ping	~		
* Detection Interval	120	S	* Main Detection IP	223.5.5.5
Detection Interval Backup Detection IP Use Pas	120 208.67.220.220 ername: Th ssword: The	e username use e password use	ed to log in to the Internet.	223.5.5
* Detection Interval * Backup Detection IP • Use • Pas • API • PIN 3G/UMTS/4	200 67.220.220 ername: The ssword: The N: The Acce I: The PIN c G/LTE	e username use e password use ess Point Name code provided b	ed to log in to the Internet. d to log in to the Internet. y the SIM card.	223.5.5
* Detection Interval * Backup Detection IP • Use • Pas • API • PIN 3G/UMTS/4 * Connection Type	200 2006.67.220.220 ername: The ssword: The N: The Acce I: The PIN c G/LTE	e username use e password use ess Point Name code provided b	• Main Detection IP ed to log in to the Internet. ed to log in to the Internet. y the SIM card.	223.5.5
* Detection Interval * Backup Detection IP • Use • Pas • APP • PIN 3G/UMTS/4 * Connection Type Password	120 208.67.220.220 ername: The ssword: The Sword: The N: The Acce I: The PIN c G/LTE	e username use e password use ess Point Name code provided b	• Main Detection IP ed to log in to the Internet. ed to log in to the Internet. y the SIM card. Username	223.5.5
 Detection Interval Backup Detection IP Use Pass API PIN 3G/UMTS/4 Connection Type Password Dial String 	120 208.67.220.220 ername: The ssword: The N: The Acce I: The PIN c G/LTE SIM1 - 3G/UMTS/4G/LTE	e username use e password use ess Point Name code provided b	• Main Detection IP ed to log in to the Internet. ed to log in to the Internet. • y the SIM card. • Username APN • Connection type	223.5.5
* Detection Interval * Backup Detection IP • USE • Pass • AP • PIN 3G/UMTS/4 * Connection Type Password • Dial String PIN Code	120 208.67.220.220 ername: The ssword: The Ssword: The N: The Acce I: The PIN c G/LTE SIM1 - 3G/UMTS/4G/LTE	e username use e password use ess Point Name code provided b	• Main Detection IP ed to log in to the Internet. d to log in to the Internet. y the SIM card. Username APN • Connection type	223.5.5 cmnet AUTO V
* Detection Interval * Backup Detection IP • Use • Pas • APP • PIN 3G/UMTS/4 * Connection Type Password • Dial String PIN Code * Keep Online Detection	120 208.67.220.220 ername: The ssword: The N: The Acce I: The PIN c G/LTE SIM1 - 3G/UMTS/4G/LTE *98*1# (TD-SCDMA) Ping	e username use e password use ess Point Name code provided b	• Main Detection IP ed to log in to the Internet. d to log in to the Internet. y the SIM card. Username APN • Connection type	223.5.5 cmnet AUTO ~

- **Username**: The username used to log in to the Internet.
- **Password**: The password used to log in to the Internet.
- Call Center Number: The call number to contact the operator.
- **APN**: The Access Point Name.
- **PIN**: The PIN code provided by the SIM card.

Network Type

* Connection type	AUTO	\sim
-------------------	------	--------

Network Selection: Includes various options such as Automatic, Force to 3G, Force to 2G, 3G Preferred, 2G Preferred, etc. If a 5G module is used, the 5G network option will be added accordingly. Choose based on user needs and the type of module.

Online Persistence

* Keep Online Detection	Ping	\sim		
* Detection Interval	120	S	* Main Detection IP	223.5.5.5
* Backup Detection IP	208.67.220.220			

The online persistence function is used to detect whether the Internet link is valid. If enabled, the 5G gateway will automatically detect the Internet link. Once a disconnection or invalid link is detected, the system will automatically reconnect and establish a valid link. If the network environment is poor or in a private network, it is recommended to use 5G routing mode.

Online Persistence Methods:

- None: No online persistence function used.
- **Ping**: Sends ping packets to check the link. If this method is selected, the "Online Persistence Detection Interval," "Primary Server IP for Online Persistence Detection," and "Secondary Server IP for Online Persistence Detection" must be configured properly.



- Route: Uses the route method to check the link. If this method is selected, the "Online Persistence Detection Interval," "Primary Server IP for Online Persistence Detection," and "Secondary Server IP for Online Persistence Detection" must be configured properly.
- TCP: Uses the TCP method to check the link. If this method is selected, the "Online Persistence Detection Interval," "Primary Server IP for Online Persistence Detection," and "Secondary Server IP for Online Persistence Detection," and the "Check Times" configuration must be properly configured.

Online Persistence Detection Interval:

The time interval between two online persistence checks, in seconds.

Link Detection Interval:

When dual links are enabled, the time interval between two ping detection checks after obtaining the IP address, in seconds.

Primary Server IP for Online Persistence Detection:

The IP address of the primary server that responds to the 5G gateway's online detection packets. This configuration is only effective when the "Online Persistence Method" is set to "Ping" or "Route."

Secondary Server IP for Online Persistence Detection:

The IP address of the secondary server that responds to the 5G gateway's online detection packets. This configuration is only effective when the "Online Persistence Method" is set to "Ping" or "Route."

Advanced

		✓ Advance	
Fixed WAN IF			
Fixed WAN GW Address			
* Allow these authentication	V PAP V CHAP	Dial Failure to Restart	
	MS-CHAP MS-CHAPv2	Ppp Asyncmap	
Force reconnect		Wan Nat	
STP		* Band	AUTO \checkmark

Dial-up Failure Restart Mechanism:

This setting determines whether the device should restart if the dial-up fails for 10 minutes. If enabled, the device will restart; if disabled, it will attempt to redial.

Manual WAN IP/Gateway Setting:

If enabled, users can manually set the WAN port's IP address and gateway.

STP (Spanning Tree Protocol):

STP is a protocol used in loop networks to implement path redundancy through a specific algorithm, transforming a loop network into a loop-free tree network. This prevents packet duplication and infinite loops in the network.



3.6.1.2 Global Settings

WAN	Global Settings	-			
Globa	Settings				
	* Force Net Card Mode	Auto ~	• MTU	1500	Auto 🗸
As	sign WAN Port to Switch	When setting to 100M or above, sele	ct automatic		

Force NIC Mode:

Default is set to automatic, but can be adjusted to 10M or 100M.

Assign WAN Port as Switch Port:

This configuration allows the device's WAN port to be set as a LAN port.

3.6.2 LAN

Router IP				
	* LAN IP	192.168.4.1	* Mask	255.255.255.0
	* Gateway	0.0.0.0	* Local DNS	0.0.0.0

Gateway IP

• LAN IP:

This is the IP address of the 5G gateway as seen by your local area network (LAN). ● Subnet Mask:

Subnet iviask

The subnet mask corresponding to the 5G gateway's LAN IP.

• Gateway:

This sets the internal gateway of the 5G gateway. If left as default, the internal gateway is the IP address of the 5G gateway itself.

• Local DNS:

The DNS server is automatically assigned by the carrier's access server. However, if you have your own DNS server or prefer to use a more stable and reliable one, you may configure it here. Otherwise, the default settings will be used.

DHCP

These settings are used to configure the Dynamic Host Configuration Protocol (DHCP) server functionality of the 5G gateway. The gateway can act as a DHCP server in the network, automatically assigning IP addresses to each device. If you enable this feature, make sure that no other DHCP servers exist in the network, and all LAN devices should be set to automatically obtain IP and DNS.

DHCP			
* DHCP Type	DHCP Server V	DHCP Server	
* IP Start	192.168.4 100	* Maximum DHCP Users	50
		✓ Advance	
* Client Lease Time	1440 minutes	- WINS	0.0.0.0
Use DNSMasq for DHCP		Use DNSMasq for DNS	
DHCP-Authoritative			

• DHCP Type:

Options include DHCP Server and DHCP Relay. If you select DHCP Relay, you must enter the IP address of the external DHCP server.



• DHCP Server:

DHCP is enabled by default. If another DHCP server is already in use in your network, or if you prefer not to use this feature, disable it. If you choose **DHCP Relay**, input the appropriate server IP.

• Start IP Address:

Enter a number from 1 to 254 for the starting address used by the DHCP server. Since the gateway's default IP is 192.168.4.1, the starting address must be 192.168.4.2 or higher, and no greater than 192.168.4.254. Default is 192.168.4.100.

• Maximum DHCP Users:

Set the maximum number of devices that the DHCP server can assign IPs to. Cannot exceed 253, and the total of start IP + user count must not exceed 255. Default is 50.

Client Lease Time:

This defines how long a dynamic IP is leased to a client, in minutes. When the lease expires, the IP will be reassigned. Default is 1440 minutes (1 day). Range: 0–99999.

• WINS:

Windows Internet Name Service (WINS) manages computer names in networks. If using a WINS server, enter its IP here; otherwise, leave it blank.

• DNSMasq:

Allows your domain name to join the local search domain and enables extended host options. With DNSMasq, IP and DNS can be assigned to subnet devices. If not selected, the system defaults to using dhcpd to assign IP and DNS.

Multi-Subnet on LAN Port

Multiple LAN IP				
				✓ Select All + Add 🗈 Delete
No.	IP Address		Mask	Operation
		No Data		
	Tel			

You can define multiple LAN subnets by clicking the Add button and entering the corresponding IP address and subnet mask. You can also delete existing configurations as needed.

Static IP Assignment

Static A	llocation					
					✓ Select All	+ Add 🗎 Delete
	No.	MAC	Name	IP Address	Client Lease Time	Operation
			No Data			
			Total 0 10/page < 1	Go to 1		

You can add devices by selecting their MAC address, setting a device name and IPv4 address. This binds the selected device to a fixed IP address and lease time. Upon lease expiration, the lease is automatically renewed by default.

Add			×
* MAC	Please enter MAC	~	
* Name			
* IPv4			
* Client Lease Time		minutes	
		Cancel	OK



3.6.3 WiFi

3.6.3.1 WiFi

WIFI Virtual Interface	е			
2.4G				
	Enable			
* Wireles	ess Mode	Access Point ~		
		Access Point Only		
	* SSID	Four-Faith	* Security Mode	Open \lor
	* Signal	Through Walls 🗸	Hide SSID	
	2			
	2		> Advance	
	-		> Advance	
5G			> Advance	
5G	Enable		> Advance	
5G * Wirelet	Enable ess Mode	Access Point V	> Advance	
5G * Wirele:	Enable ess Mode	Access Point V Access Point Only	> Advance	
5G * Wirelet	Enable ess Mode	Access Point Access Point Only Four-Fatth_5G	> Advance	Open 🗸

Enable: Turns WiFi on.

Disable: Turns WiFi off.

Wireless Mode:

Four selectable modes: Access Point, Client, Repeater, Repeater Bridge.

* Wireless Mode	Access Point ^
	Asses Bailed Oak.
	Access Point
* SSID	Client
* Signal	Repeater
	Repeater Bridge

SSID:

You can set the name of the wireless AP (access point). All devices in the wireless network must share the same SSID. SSIDs are case-sensitive, must consist of letters and/or numbers, and cannot exceed 32 characters.

Security Mode:

* Security Mode	Open ^
Hide SSID	Open
	WPA
	WPA/WPA2-PSK
	WPA2
	WPA3

Options include Open, WPA, WPA/WPA2-PSK, WPA2, and WPA3.



Signal Strength:

* Signal	Through Walls	^
	Through Walls	
	Standard	
	Energy Saving	

Selectable modes include Through Walls, Standard, and Energy Saving.

3.6.3.2 Virtual Interface

Click Add to create a virtual interface. After successful creation, click Remove to delete the virtual interface.

WIFI	Virtual Interface			
2.4	G			
				Select All + Add Delete
	No. SSID	Security Mode	Hide SSID	Operation
		No Data		
		Total 0 10/page V 4 1	> Go to 1	

3.6.4 VPN

3.6.4.1 PPTP

PPTP	L2TP	OPENVPN	IPSEC	GRE	GRETAP	VXLAN	EOIP	FRP							
РРТР	Server														
	1	PTP Server													
	Broad	cast Support											Force MPPE Er	cryption	
		DNS1												DNS2	
		WINS1												WINS2	
		Server IP											Cli	ent IP(s)	0.0.0.0-0
									Users		Connection Stat	tus			
РРТР	Client														
	PPTP C	lient Options													
	Server IP o	DNS Name											* Remote	e Subnet	
	Remote \$	Subnet Mask											MPPE Er	cryption	mppe stateless
		* MTU	1450											* MRU	1450
		NAT												Fixed IP	
		Username	DOMAIN\\Use	mame									P	assword	
	pi	ng Detection													
										Connectio	n Status				

Broadcast Support:

Enable or disable broadcast support for the PPTP server.

Force MPPE Encryption:

Specify whether to force MPPE encryption for PPTP data.



DNS1, DNS2, WINS1, WINS2:

Set the primary and secondary DNS and WINS server addresses.

Server IP:

Enter the IP address of the 5G gateway to be used as the PPTP server. This must be different from the LAN address.

Client IP:

Specify the IP address range for clients in the format xxx.xxx.xxx.xxx.xxx. **Note**: The client IP range must not overlap with the DHCP IP pool of the 5G gateway. Any range outside of the DHCP pool is acceptable.

Server IP or DNS Name:

The IP address or DNS name of the remote PPTP server.

Remote Subnet:

The internal network of the remote PPTP server.

Remote Subnet Mask:

The subnet mask of the remote PPTP server's internal network.

MPPE Encryption:

Specify whether MPPE encryption is supported.

MTU (Maximum Transmission Unit):

Set value between 0 and 1500.

MRU (Maximum Receive Unit):

Set value between 0 and 1500.

NAT:

Enable or disable NAT traversal.

Username:

Username authorized by the PPTP server.

Password:

Password associated with the username.



PPTP	L2TP	OPENVPN	IPSEC	GRE	GRETAP	VXLAN	EOIP	FRP	
L2TP	Server								
	L2TP S	erver Options							
	Force MP	PE Encryption							Server IP
		Client IP(s)	0.0.0-0						Tunnel Authentication Password
									Users Connection Status
L2TP	Client								
	L2TP	Client Options							
		Tunnel Name	Router						Username DOMAIN/Username
		Password							Tunnel Authentication Password
		L2TP Server							* Remote Subnet 172.16.1.0
	• Remote	Subnet Mask	255 255 255 0	0					MPPE Encryption mppe stateless
		• MTU	1450						* MRU 1450
		NAT							Fixed IP
	F	Require CHAP							Refuse PAP
	Require	Authentication							ping Detection
									Connection Status



Force MPPE Encryption:

Specify whether to force MPPE encryption for L2TP data.

Server IP:

Enter the IP address of the 5G gateway to be used as the L2TP server. This must differ from the LAN address.

Client IP:

	Router	Username	OMAIN\\Username
		Tunnel Authentication	
		Password	
		* Remote Subnet 1	72.16.1.0
	255.255.255.0	MPPE Encryption n	nppe stateless
	1460	* MRU 1	450
		Fixed IP	
		Refuse PAP	D
		ping Detection	
Connection State		Connection Status	

L2TP Server:

IP address or DNS name of the L2TP server.

Remote Subnet:

The internal network of the remote L2TP server.

Remote Subnet Mask:

Subnet mask of the remote L2TP server's network.

MPPE Encryption:

Specify whether MPPE encryption is supported.

MTU:

Maximum transmission unit, range 0–1500.

MRU:

Maximum receive unit, range 0–1500.

NAT:

Enable or disable NAT traversal.

Username:

Username authorized by the L2TP server.

Password:

Password associated with the username.

Allow CHAP Authentication Protocol:

Specify whether to allow CHAP authentication.

Reject PAP Authentication Protocol:

Specify whether to reject PAP authentication.

Allow Authentication Protocols:

Specify whether to allow authentication protocols.

3.6.4.3 OPENVPN

OpenVPN Server	
Enable	
Connection Status	Show
* Start Type	• System O WAN Up
* Config Via	• Daemon O Server
CA Cert	+ Select Upload File
Public Server Cert	+ Select Upload File
Private Server Key	+ Select Upload File
DH PEM	+ Select Upload File
Additional Config	

Public CA Certificate:

The shared CA certificate for both the server and clients.

Public Server Certificate:

The server's certificate.

Server Private Key:

The private key configured on the server side.



DH PEM	+ Select Upload File	
		11
Additional Config		
		11
TLS Auth Key	+ Select Upload File	
Configurate Develop Link		11
Centricate Revoke List		1.

DH PEM Certificate:

The server's PEM certificate.

Additional Configuration:

Other optional server configuration settings.

TLS Authentication Key:

The authentication key used for TLS (Transport Layer Security).

Certificate Revocation List:

A list of revoked certificates.

OpenVPN Client			
Enable			
Connection Status	Show		
* Server IP/Name	0.0.0.0	* Port	1194
* Tunnel Device	TUN 🗸	* Tunnel Protocol	
* Encryption Cipher	AES-128-CBC V	* Hash Algorithm	SHA256 V
User Pass Authentication			
ping Detection			
CA Cert	+ Select Upload File		
		1	
Public Client Cert	+ Select Upload File		
		1	
Private Client Key	+ Select Upload File		
		6	

Server IP/Hostname:

The IP address or domain name of the OpenVPN server.

Port:

The port on which the OpenVPN client listens.



Tunnel Device:

- **TUN** Routing mode
- **TAP** Bridged mode

Tunnel Protocol:

Supports UDP and TCP protocols.

Encryption Standard:

Supported encryption standards for the tunnel include:Blowfish CBC, AES-128 CBC, AES-192 CBC, AES-256 CBC, AES-512 CBC

Hash Algorithm:

Provides fast data access, with options including:SHA1, SHA256, SHA512, MD5

Public CA Certificate:

The shared CA certificate for both the server and clients.

Public Client Certificate:

The certificate used by the client.

Client Private Key:

The private key used by the client.

		◇ 高级配置	
* TLS加密标准	None ~	* 使用LZO压缩	Adaptive \checkmark
NAT			
TAP绑定到br0网桥上			
IP地址		子网掩码	
* TUN MTU设置	1500	UDP隧道片段	Disable
TCP MSS		ns证书类型(nsCertType)	
TLS认证密钥			
额外配置			
基于路由策略			
PKCS12 Key			

Enable LZO Compression:

Enable or disable the use of LZO compression for data transmission.

NAT:

Enable or disable NAT traversal.

Bind TAP to br0 Bridge:

Enable or disable binding of the TAP interface to the br0 bridge.

Local IP Address:

Set the local IP address of the OpenVPN client.

TUN MTU Setting:

Configure the MTU value for the tunnel.



TCP MSS:

Set the maximum segment size for TCP data.

TLS Encryption Standard:

Supported TLS encryption standards include **AES-128 SHA** and **AES-256 SHA**.

TLS Authentication Key:

Authentication key used for TLS.

Additional Configuration (Routing Policy Based):

Enter custom routing policies as part of additional server configuration.

3.6.4.4 IPSEC

PPTP	L2	TP	OPENVPN	IPSEC	GRE	GRETAP	VXLAN	EOIP	FRP					
Glo	oal Set	ttings												
	Er	nable I	IAT-Traversal											
			Debug Level	Close			~							
					Cert Manag	ement								
Tun	nel													
												✓ Select All	+ Add	🖞 Delete
		No.	Status	Na	me	Туре		Con	nmon Name		Auth Mode	Enable	Operat	ion
								1	No Data					
						Тс	ital 0 10/p	age 🗸	< 1 →	Go to 1				

The IPSEC page displays all current IPSEC connections and their statuses.

Status:

Indicates the current connection status, with three possible states:

- **Disconnected**: No connection request has been initiated to the remote end.
- **Negotiating**: A connection request has been sent and is in the negotiation process, but the connection is not yet established.
- Established: The connection is successfully established and can be used.

Operations:

Available operations for each connection include:

- **Delete**: Removes the connection. If the IPSEC tunnel is established, it will be torn down.
- Edit: Modify the connection settings. After editing, you must reload the connection to apply changes.
- **Reconnect**: Tears down the current tunnel and re-initiates the connection.
- **Enable**: When enabled, the connection will attempt to establish automatically upon system reboot or manual reconnection. If disabled, it will not.

Add New:

Used to create a new IPSEC connection.

Delete:

Used to remove an existing IPSEC connection.

Name:

The name of the IPSEC connection.



Type:

Specifies the type and role of the current IPSEC connection.

Function:

Allows selection of IPSEC mode and function. Currently supports Tunnel Mode as either Client or Server.

Add

Туре					
	Enable		* Name		
	* Type	Net-to-Net Virtual Private Ne 🗸	* Function	Client	~

Connection Configuration:

This section contains the basic address information of the channel.

Connection Config			
* Interface	WAN \vee		
* Local Subnet	0.0.0.0/24	* Local Id	
* Peer WAN address		* Peer subnet	0.0.0/24
* Peer ID			

Local WAN Interface:

The local IP address for the tunnel.

Local Subnet:

The local protected subnet and mask (e.g., 192.168.4.0/24). Not applicable in transport mode.

Local Identifier:

The local identifier for the tunnel (IP or domain name).

Peer Address:

The remote peer's IP/domain. Not configurable if acting as a server in tunnel mode.

Peer Subnet:

Remote protected subnet and mask (e.g., 192.168.7.0/24). Not applicable in transport mode.

Peer Identifier:

The identifier of the remote peer (IP or domain name).



Detection:

This section contains the configuration information for connection detection (DPD).

Detection			
Enable DPD Detection			
* Time Interval	60	* Timeout	80
* Operation	restart V		
ping Detection			
* Detection Interval	30 S	* IP Address	10.10.10.1
* Restart times	10		

Enable DPD (Dead Peer Detection):

Enable or disable DPD.

Time Interval:

DPD detection interval time.

Timeout:

Timeout period for DPD.

Action:

Action to be taken upon DPD timeout.

Detection			
Enable DPD Detection			
* Time Interval	80	* Timeout	80
Sian:			

Choose between pre-shared key or certificate authentication. Currently, only pre-shared key is supported.

Sign					
	* Auth Mode	Pre-Shared Key	~	* Secret Key	

Advanced Configuration:

This section contains configuration settings related to IKE, ESP, and negotiation modes.

1						
Fou	r-Faith				FNR500 User I	Vanual
	Phase 1					
		* IKE Encryption	AES (256 bit) V	* IKE Integrity	MD5 V	
		* IKE Grouptype	Group2(1024) V	* IKE Lifetime	24	
	Phase 2					
		* ESP Encryption	AES (256 bit) \lor	* ESP Integrity	SHA2 (512)	
		* ESP Grouptype	NULL V	* ESP Lifetime	24	
	IKEv2					
		Use IKEv2				
		Aggressive Mode		Perfect Forward S	Secrecy 🔵	

Enable Advanced Configuration:

Enable this to manually set Phase 1 and 2 parameters; otherwise, the system will autonegotiate.

IKE Encryption:

Encryption method for the IKE phase.

IKE Integrity:

Integrity algorithm for the IKE phase.

IKE DH Group:

Diffie-Hellman group.

IKE Lifetime:

IKE lifetime (in hours), default is 0.

ESP Encryption:

Encryption method for ESP.

ESP Integrity:

Integrity algorithm for ESP.

ESP Lifetime:

ESP lifetime (in hours), default is 0.

Aggressive Mode:

Enable to use aggressive mode, otherwise main mode is used.

Perfect Forward Secrecy (PFS):

Enable to use session key forward encryption.



GRE (Generic Routing Encapsulation) is a tunneling protocol that encapsulates certain network layer protocols (e.g., IP, IPX) to transmit them over another network layer protocol (e.g., IP). GRE uses tunnel technology and is a Layer 3 VPN protocol.

Add			×
Name			
* Through	PPP V		
* Peer Wan IP Addr			
* Peer subnet	192.168.1.0/24		
* Peer Tunnel IP			
* Local Tunnel IP			
* Local Netmask			
NAT			
* MTU	1476		
Keepalive			
ping Detection			
		Canaal	OK
		Cancel	OK

GRE Tunnel:

Enable or disable GRE functionality.

Tunnel Count:

Up to 12 GRE tunnels can be configured.

Status:

Indicates whether the current GRE tunnel is enabled.

Name:

Tunnel name, up to 30 characters.

Interface:

GRE send/receive interface (LAN or PPP dial-up).

Peer WAN IP Addr:

WAN IP of the peer GRE.

Peer Subnet:

Subnet of the peer GRE (e.g., 192.168.4.0/24).

Peer Tunnel IP:

Tunnel IP of the remote GRE peer.



Local Tunnel IP: Tunnel IP address of the local GRE.

Local Subnet Mask: Subnet mask for the local GRE tunnel.

Keepalive: Enable or disable GRE keepalive.

Retry Count: Max retry count for failed keepalive.

Retry Interval: Interval between keepalive packets.

Failure Policy: Policy on keepalive failure.

3.6.4.6 GRETAP

P L2TP OPENVPN IPSEC	GRE GRETAP VXLAN EOIP	FRP			
RETAP					
					V Select All + Add B Deinte
No.	Tunnel Name		Peer Wan IP Addr	Enable	Operation
			No Data		
		Total 0	10ipage – < 1 > Go to 1		
			1		
dd		×			
* Name					
Enable					
* Peer Wan IP Addr					
ping Detection					
* Detection Interval	30 S				
* IP Address	10.10.10.1				
* Restart times	10				
		Cancel			
		Udilicei UK			

Name:

Interface name of GRETAP, max 32 characters.

Enable:

Enable or disable this GRETAP tunnel.

Peer WAN IP Addr:

WAN IP address of the remote GRETAP.

Ping Detection:

Enable link detection for GRETAP.

Detection Interval:

Time interval for link detection.



IP Address:

Target IP address for GRETAP detection.

Restart Times:

Number of failed checks before reinitiating GRETAP.

3.6.4.7 VXLAN

Vxlan	
Enable	
* VXLAN Tunnel Name	vxlan1
* VXLAN Network Identifer	
* VXLAN MTU	1450

* VXLAN remote ip addr	
* VXLAN destination port	8472

Enable:

Enable or disable VXLAN.

VXLAN Tunnel Name:

Name of the VXLAN network interface.

VXLAN Remote IP Addr:

WAN IP of the remote VXLAN peer.

VXLAN Network Identifier:

VXLAN network identifier (must match on both ends).

VXLAN Destination Port: Default is 8472.

VXLAN MTU:

MTU size for VXLAN transmission (default 1450).

3.6.4.8 EOIP

Add		×
Enable		
* Remote IP Address		
Bridged		
	Cancel	ОК

Enable:

Enable or disable EOIP.

Remote IP Address:

WAN IP of the peer EOIP.

Bridge:

Whether to enable bridging. If disabled, EOIP subnets differ; if enabled, subnets must match.



3.6.4.9 EVEL LEAR * FEP FEP Server Add * FEP FEP Server Add	FRP		* FRP FRP Server Pot 0		v Sansta - Add
No.	Name	Local IP	Local Port	Remote Port	Operation
			No Data		
			Total 0 10/page -> < 1 -> Go to 1		

Enable: Enable or disable FRP.

FRP Server Address:

Public IP address of the FRP server.

FRP Server Port: Port of the public FRP server.

FRP Remote Token:

Authentication key of the public FRP server.

Local IP:

Target IP to be accessed via FRP mapping.

Local Port:

Target port to be accessed.

Remote Port:

Port used by external users to access the device through the public FRP server.



3.6.5 NAT

3.6.5.1 Port Forwarding

Port forwarding allows you to set up public services (e.g., web server, FTP server, or other internet applications) on the network.

Port For	ward DMZ V	irtual IP Setting						
Port	Forward							
							✓ Select All	+ Add 🔋 Delete
	No.		Name	Protoco	ы	Action	Ena ble	Operation
					No Data			
				Total 0 10/page ~	< 1 > Go to 1			
Port	Range Forward							
							✓ Select All	+ Add 😰 Delete
	No.		Name	Protoco	ы	Action	ble	Operation
					No Data			
				Total 0 10/page v	\langle 1 \rangle Go to 1			
Ad	dd			×				
		Name						
		Enable						
		* Protocol	Select v					
		Course Net	0.0.0.004					
		Source Net	0.0.0.0/24					
		* Port From						
		* ID Addroop						
		" IP Address						
		* Port To						
				Cancel OK				

Name:

Enter the name of the application.

Protocol:

Select UDP or TCP; both can be selected.

Allowed Source IP Range:

Enter the IP addresses of Internet users.

Source Port:

Enter the external port number used by the service.

IP Address:

Enter the internal IP address of the server to be accessed.

Destination Port:

Enter the internal port number used by the service.

Enable:

Check to enable the defined port forwarding rule. Default is disabled.

After modifying the page, click "Save Settings" to apply changes or "Cancel" to discard.



Port Range Forwarding

Port Range Forward				✓ SelectAl + Ads @ Delete
No.	Name	Protocol	Action	Ena Operation ble
		No Data		
		Total 0 10/page \lor < 1 > Go to	1	

Some applications require a specific port range to operate correctly. The 5G gateway will forward these requests to the designated device.

Add			×
Name			
Enable			
* Protocol	Select ~		
* Start Port			
* End Port			
* IP Address			
		Cancel	ок

Name:

Name of the application.

Enable:

Check to enable this port range forwarding rule. Default is disabled.

Protocol:

Select UDP or TCP; both can be selected.

Start Port:

Start port number of the range.

End Port:

End port number of the range. **Destination IP:** Internal IP address of the server to be accessed.

Click "Save Settings" to save changes or "Apply" to make the settings effective.

Four-Faith		FNR500 User Manual
3.6.5.2 DMZ		
Use DMZ		
* DMZ Host IP Address	192.168.4 0	

The DMZ function allows a network user to be exposed to the Internet in order to use specific services. The DMZ host forwards all ports to a specific computer. Since only desired ports are opened in port forwarding, it is more secure. However, the DMZ host opens all ports, exposing the computer to the Internet.

To enable the DMZ function, select "Enable," then enter the IP address of the computer in the "DMZ Host IP Address" field.

3.6.5.3 Virtual IP Setting

Pet Formed DM2 Value IP Setting Virtual IP Setting Value IP Setting

Virtual IP:

The virtual IP address.

Real IP:

The actual IP address to be accessed, such as an IP under the router (e.g., 192.168.4.100).

Destination IP:

The subnet address and gateway of the peer; default is empty (0.0.0.0/0).

Interface:

The interface through which the virtual IP is forwarded.



3.6.6 VLAN

(irtual Local Area Network (VLAN)							
			Port				
VLAN	w	1	2	3	4	Assigned to Default Bridge	
1						Yes v	
2						Yes 🗸 🗸	
3						No v	
4						No	
5						No v	
0						No v	
7						No v	
8						No v	
9						No	
10						No v	
11						No v	
12						No	
13						No v	
14						No v	
15						No	

The VLAN feature allows users to flexibly divide VLAN ports as needed. The system supports VLAN1 to VLAN15, a total of 15 VLANs. However, the device only has 5 physical ports—1 WAN and 4 LAN ports. Ports can be grouped based on specific needs, but LAN and WAN ports cannot be assigned to the same VLAN.

3.6.7 Bridge

Bridge					
				II Bridge Now 🗸 Select	Al + Add 🖹 Delete
No.	Bridge Name	Priority	MTU	Assign To Interface ①	Operation
LAN	br0	32768	1500		ß
		Tatal 4 (Dianae			

Create Bridge:

Create a new bridge for use. STP stands for Spanning Tree Protocol, and you can set the priority for the bridge. A lower number indicates a higher priority.

Assign to Bridge:

This allows you to assign any valid interface to an already created bridge.

Current Bridge List:

Displays the list of currently active bridges.



Bridge Parameters

* Bridge Name	
STP	
* Priority	32768
* MTU	1500
IP Address	
Mask	

Steps to create a bridge:

Click the "Add" button in the Create Bridge section to access the configuration page.

- Bridge Name is the name of the bridge.
- **STP** indicates whether to enable the Spanning Tree Protocol.
- **Priority** indicates priority for STP (lower value = higher priority).
- **MTU** is the Maximum Transmission Unit (default is 1500). If unnecessary, you can delete it. Click "Save" or "Apply" to proceed to the next step:

After entering the bridge's IP address and subnet mask, click "Confirm" to generate the bridge. **Note:** The bridge must be created before it can be applied.

To assign interfaces to a bridge (e.g., assigning ra0—the wireless interface—to bridge br1):

Assign To Interface

		✓ Select All	+ Add	Delete
Interface	Priority		Oper	ation
	No Data			

Prio indicates interface priority. If multiple interfaces are bound to the same bridge, this becomes relevant (lower value = higher priority). Click "Apply" to activate.
 Note: Some WAN interfaces listed should not be bound. This bridge function is primarily used

for the LAN side and should not be bound to the WAN port.



On the Routing page, you can set the operation mode and configure static routing. For most users, Gateway mode is recommended.

Main Mode				
	Main Mode	Gateway	~	

Main Mode:

5

Select the appropriate operation mode. If the 5G gateway shares an Internet connection, keep the default setting as Gateway mode (recommended for most users). To use only the routing function of the 5G gateway on the network, select "5G Gateway."

Dynamic Routing:

This feature is not available in Gateway mode. Dynamic routing allows the 5G gateway to automatically adjust to physical changes in the network layout and exchange routing tables with other 5G gateways. It determines the packet route based on the minimum number of hops between source and destination.

Dynamic Routing	
Interface	Disable ^
	Disable
Static Routes	WAN
	LAN & WLAN
	Both

To enable dynamic routing for the WAN side, select WAN.

To enable it for the LAN and WLAN, select LAN & WLAN.

To enable it for both WAN and LAN, select Both.

To disable dynamic routing for all traffic, keep the default setting (Disabled).

Static Routes:



To set up a static route between the 5G gateway and another network, select a route ID from the static route dropdown list. (Static routing refers to predetermined paths for data to reach specific hosts or networks.)



Add		×
Route Name		
* Metric		
* Destination LAN NET		
* Mask		
* Gateway		
* Interface	Select ~	
		Cancel OK

Route Name:

User-defined name, up to 25 characters.

Metric:

Metric for the route from source to destination. Range: 0–9999.

Destination LAN NET:

Target IP address for the route.

Mask:

Determines which part of the destination IP is the network and which part is the host.

Gateway:

IP address of the gateway device used to reach the destination network or host.

Interface:

Choose an interface such as LAN, WLAN, or WAN based on the destination location.

To delete a configured static route, select the corresponding route ID and click the "Delete" button.

To view the current routing table of the 5G gateway, click the "Current Route" button.

(Current Route				×	[
	Destination LAN N ET	Gateway	Subnet Mask	Metric	Interface	
	127.0.0.0	0.0.0.0	255.0.0.0	0	lo	
	192.168.4.0	0.0.0.0	255.255.255.0	0	br0	

Click "Save Settings" to save changes without applying them. Click "Apply" to make changes effective immediately.



3.6.9 5G LAN Settings

The 5G LAN feature is related to the 5G module. Only specific 5G modules support this feature.

3.6.10 MAC Clone

Some ISPs require MAC address registration. If you want to avoid re-registering your MAC address, you can clone the registered MAC address to the 5G gateway.

MAC Clone		
MAC Clone		
* Clone LAN(VLAN) MAC	54:D0:B4:57:9E:59	
* Clone WAN MAC	54:D0:B4:57:9E:5A	Get PC MAC
* Clone LAN(Wireless) MAC	54:D0:B4:57:9E:5B	

MAC Address Cloning includes three parts: LAN port cloning, WAN port cloning, and Wireless MAC address cloning.

Two important notes:

- 1. MAC addresses are 48-bit and must not be multicast addresses. This means the first byte should be an even number.
- 2. Because the wireless and LAN ports are connected through the br0 bridge, the MAC address of bridge br0 is determined by the lower value between the LAN and Wireless MAC addresses.

3.7 Application Settings

3.7.1 Active Policy

The Active Policy page allows you to configure scheduled reboots and scheduled tasks. **Scheduled Reboot:**

Schedule Reboot	
Schedule Reboot	
* Select Method	Restart After A Few Seconds \smallsetminus
* Interval (in seconds)	3600

You can set the router to reboot:

- After a specified number of seconds (e.g., reboot after xxx seconds).
- At a specific date/time, on specific days of the week, or daily.



Timed Tasks:

Timed Tasks			
Enable			
	Minutes Hours Day Month		
	Every minute		V Select All + Add E Delete
Cycle	Cycle Cycle Every = 0 + minute(s) starting at minute - 3 + Every = 0 + minute(s) starting at minute - 3 +	Task	Operation
8			<u> </u>
		Can not be empty	
		10/page	
	Close Save		

3.7.2 Security Policy

3.7.2.1 IP Restriction

You can configure a blacklist or whitelist to restrict the source or destination IP addresses for incoming and outgoing traffic, including the communication protocols.

Enable					
* Strategy	Black List \lor				
	Discard compliant data				
				Select A	NI + Add 🔋 Delete
No.	Direction	Protocol	Source Address	Target Address	Operation
			No Data		
		Telel 0 40/mm	()		

3.7.2.2 URL Restriction

You can configure a blacklist or whitelist of URL addresses. Only traffic that matches the defined rules will be accepted; all others will be discarded.

URL Restrictions			
Enabl	•		
Strateg	y Black List 🗸		
	Discard compliant data		
			V Select All + Add 🔋 Delete
No.		URL	Operation
		No Data	
		Total 0 10 page v (1) Go to 1	

3.7.2.3 MAC Restriction

You can configure a blacklist or whitelist of MAC addresses. Only traffic that matches the defined rules will be accepted; all others will be discarded.

MAC Restrictions			
Enable	•		
* Strategy	y Black List \vee		
	Discard compliant data		
			Select Al + Add B Delete
No.		MAC	Operation
		No Data	
		Total 0 10 page ∨ < 1 > Go to 1	

3.7.2.4 Firewall

You can enable or disable the firewall, select to filter specific types of Internet data, and block anonymous Internet requests to enhance network security.

Firewall Protection Firewall Protection SPI Firewall

The firewall enhances network security and uses Stateful Packet Inspection (SPI) to check incoming packets. To enable firewall protection, select "Enable." SPI must be enabled to use



other firewall features like proxy filtering and WAN request blocking.

Additional Filters				
Additional Filters				
	Filter Proxy	Filter Cookies		
	Filter Java Applets	Filter ActiveX		
 Filter Proxy: Proxy servers over WAN proxy server. Filter Cookies: Cookies are data s cookies. Filter Java Applet Blocking Java may option to filter Java Filter ActiveX: Blocking ActiveX m this option to filter A 	 Filter Proxy: Proxy servers over WAN can reduce gateway security. This option blocks access to any WAN proxy server. Check the box to enable Proxy filtering, or uncheck to disable. Filter Cookies: Cookies are data stored by websites on your computer. Enable this option to filter cookies. Filter Java Applets: Blocking Java may prevent certain Java-based web pages from loading. Enable this option to filter Java applets. Filter ActiveX: Blocking ActiveX may prevent certain ActiveX-based web pages from loading. Enable this option to filter ActiveX controls. 			
Block WAN Requests				
 Block Anonymous WAN Requests (ping) Filter IDENT (Port 113) Block WAN SNMP access Block this option to block anonymous Internet requests, preventing external users from pinging or probing your network. This feature is enabled by default. Disable to allow anonymous requests. Filter IDENT (Port 113): This prevents external devices from scanning port 113. Enable or disable this filter as needed. Block WAN SNMP Access: Block WAN SNMP Access: Block SNMP connection requests from the WAN. 				
	Limit SSH Access	Limit Talnat Access		
	Limit PPTP Server Access	Limit L2TP Server Access		
 Limit SSH Access: Limits SSH requests from the WAN. Only 2 SSH connections per minute are allowed from the same IP. Limit Telnet Access: Limits Telnet requests from the WAN. Only 2 Telnet connections per minute are allowed from the same IP. 				

Limit PPTP Server Access:
 When a PPTP server is enabled, this option limits WAN-side PPTP requests to 2



connections per minute per IP.

• Limit L2TP Server Access: When an L2TP server is enabled, this option limits WAN-side L2TP requests to 2 connections per minute per IP.

3.7.2.5 WEB Access

You can configure the local web access protocol, port, and user logout time, as well as enable remote web access management.

WEB		
Web GUI Management		
Protocol	HTTP HTTPS	
* HTTP Port	80	
* User Automatic Logout Time	300	S
	Automatically log out after closing the page for	a few seconds, if 0, do not automatically log out
Remote WEB		
Remote HTTP Management		
	Support accessing management pages throug	h HTTP from WAN port/VPN
Remote HTTPS Management		
	Support accessing management pages throug	h HTTPS from WAN port/VPN

3.7.3 QoS

The QoS (Quality of Service) function allows you to limit upload and download traffic, and separately configure the maximum upload and download speeds for the main and backup links.

Main		
	Enable	
	* Uplink (kbps)	0
	* Downlink (kbps)	0
Backup		
	Fashla	
	Enable	
	* Uplink (kbps)	0



• Uplink (kbps):

Enter the allocated upload bandwidth. Typically set to 80–90% of your actual available bandwidth.

• **Downlink (kbps):** Enter the allocated download bandwidth. Typically set to 80–90% of your actual available bandwidth.

3.8 Maintenance

3.8.1 Diagnostics

Click "Start Diagnosis" to let the device run diagnostics on the primary and backup links. Any detected anomalies will be prompted. You can also export the diagnostic report.

gnosis		
* Diagnostic Content	Network	
	🕆 Diagnosing	
n an		
gnostic Results		
Global Network		
Current Link	Main Link	Normal
DNS Resolution	Test Address: www.baidu.com	Abnormal
	IPv4 Resolution:	
	IPv6 Resolution:	
	DNS resolution failed, please check if the correct DNS	address is set. If it is a dedicated network card,
	please ignore it	
Main Link		
Network Config	SIM1 - 4G/5G	Normal
WIFI STA	Status: Not Connected	Error
	Channel: Channel 36	
	Signal:%	
	-	

3.8.2 Network Tools

There are three modes in the network tools section: ping, traceroute, and nslookup, which can be used for device analysis.

Network Tools	
* Mode	ping
* IP or Domain	
	Run



Reference as follows:

Network Tools	
* Mode	ping ~
* IP or Domain	114.114.114.114
	Run

Diagnosis Completed

PING 114.114.114.114 (114.114.114.114): 56 data bytes

3.8.3 Command Debugging

Commanus	
Start Command	
Shutdown Command	
Firewall Command	
. nonai commana	

You can execute commands via the command window.

- Startup Command: Command executed automatically when the 5G gateway boots.
- Shutdown Command: Command executed automatically when the 5G gateway shuts down.
- Firewall Command: Custom iptables commands executed each time the firewall is started.



Terminal



This terminal window allows you to log into the device using its username and password, enabling you to run commands or queries.

3.8.4 Log Management

Realtime Log History Log

You can choose to view real-time logs or configure historical logs.

Real-Time Logs

Logs can be viewed in real-time through the local web interface, serial, or network.



For the network mode, UDP is used by default. You need to configure the remote server's IP address and port to receive log messages. Please note that enabling this mode will consume device data, so use caution with limited data plans.

►1°		
Four-Faith		FNR500 User Manual
System Log		
System Log		
* Output Mode	Network 🗸	
	Output logs to remote server port using UDP protocol	
* Remote Server		
* Port	514	

Historical Logs

Log caching requires the device to support eMMC or large JFFS. If these features are unavailable, historical log caching is not supported.

Realtime Log	History Log						
Log Cache							
	Enable	ring this function, educed and on the ability is assumely many	and as WER Assatise is eachied, and centre and line beautions				
	Photosoft, bostor a	ang una randore, process sensors can amino se control y mo	energi en ar y ar menanen er tenteren, er te tentere menyerte hogge	ig nathanatti			
2025 April							Previous Month Today Next Month
	Mee	Tue	Wed	Thu	54	Col.	
31	NIG1	01	02	03	04	05	06
07		08	09	10	11	12	13
14		15	16	17	18	19	20
21		22	23	24	25	26	27
28		29	30	01	02	03	04
05		06	07	08	09	10	
				Save Apply			

3.8.5 Traffic Statistics

This page is used to display the traffic statistics for the device during the current month. It records and displays daily uplink and downlink total traffic for the WAN port throughout the current month.



3.8.6 Storage Settings

By default, this function is disabled. When enabling it for the first time, you may perform a formatting operation (this is not required for subsequent uses to avoid accidental deletion). Once enabled, the size of JFFS or eMMC storage can be viewed. If historical log caching or other storage-related features are needed, this function must be enabled first.

JFFS	
Enable	
Status	Disable
	Format



3.8.7 Remote Management

3.8.7.1 SSH

After enabling the SSHD service, remote access to the 5G gateway's operating system via an SSH client is allowed.

SSH		
	Enable	
SSH	TCP Forwarding	
	Password Login	
	* Port	22
	Authorized Keys	
<pre>c</pre>	CH Management	

- **SSH TCP Forwarding:** Whether to support TCP forwarding.
- Password Login: Whether a password is required for login.
- **Port:** Set the SSHD port; the default is port 22.
- Authorized Key: Can be set as needed. By default, the system uses the login username and password.

3.8.7.2 Telnet

Enable or disable the Telnet function.

Telnet		
	Telnet	
	Remote Management	

The local Telnet function is enabled by default, while remote Telnet management is disabled by default.

3.8.7.3 SNMP

SNMP

You can set parameters such as location, contact, name, read-only community string, and read-write community string.

Enable	
* Location	Unknown
* Name	four-faith
* RW Community	private

* Contact	root
RO Community	public

- **Enable:** Turn SNMP function on or off.
- Location: Describes the physical location of the SNMP device.
- **Contact:** SNMP administrator's name.
- **Name:** The SNMP device name.
- **Read-Only Community:** A string that allows SNMP clients to read information from the device.
- **Read-Write Community:** A string that allows SNMP clients to read and modify the device's information.



3.9 Cloud	d Platform Management		
The Device (intranet pene platform an account in ac	Ioud Platform supports remote operation and maintenance device parameter configuration, upgrading device firmware, tration of operation and maintenance sub device firmware, data reports, etc. Configuring devices to the Device cloud facilitate subsequent remote operation of devices. To use the Device Cloud Platform, you need to register a Device Cloud lvance. Click to go to Device Cloud to register and log in for use. device tourfaith-cloud.com		
Remote Manageme	nt 💽		
* Platfo	m O Four-Faith Cloud O Private Cloud		
* Protoc	ol 🔿 V1.0 💿 V2.0		
* Device Co	le SN v	* Device Type Description	Router
* Customized Local Domi	FJ4160805409 Copy		
Connection Status			
Stat	us Disabled	Server Ip And Port	166.111.8.238:40001
Connection Stat	is Ready	Active Time	

During the device initialization page, there will be a prompt for cloud management. If you have an account for the device management platform, you can set the cloud platform address provided by our company. If you have subscribed to a private cloud platform deployment, you can set the corresponding cloud address and port. The device code defaults to the device's SN and is unique.

3.10 System Management

3.10.1 System Settings

System Settings		
* Router Name	Four-Faith	
Host Name		
NTP Client		
NTP Client		
Time Settings		
Time Adjustment	(S) Manually selecting date ar	Set
	2025-04-21 09:54:04	Set

- **System Settings:** You can set the gateway name and hostname. These settings have default values, but you can also customize them.
- **NTP Client:** The NTP client is disabled by default. Once enabled, you can set the server address, and the gateway will synchronize time with the NTP server.

Four-Faith		FNR500 User Manual
NTP Client		
NTP Client		
* Time Zone	UTC+00:00 ~	
* Summer Time (DST)	None \lor	
Server IP/Name		

Time Settings: You can manually adjust the current time of the device.
 Time Settings



3.10.2 Login Management

This page allows you to change the device's login username and password.

Account Login	
Password Setting	
* Router Username	admin
* Password	
* Re-enter To Confirm	
	Change Password

3.10.3 Restore to Factory Defaults

Clicking "Restore Factory Defaults" will reset the device to its factory settings. Please ensure you have saved any necessary parameters before proceeding, as all current configurations will be erased.

Restore Router Settings

Restore Factory Defaults

This operation resets the settings back to the factory preset values. All your settings will be erased.



3.10.4 Configuration Backup

Bac	/IIIn	Con	fig
Dav	Lup.	2011	i i g
			_

buckup comig	
	Backup Config
	Back up your current configuration in case you need to reset the router to factory settings in the future.
Recovery Config	
	Recovery Config

- **Backup Configuration:** Click the backup button to download the current device configuration for storage or for importing into another device.
- **Restore Configuration:** You can import a backup file from the same model gateway using the restore button. Note: Do not upload any file not created through this interface!

3.10.5 Firmware Upgrade

Upgrade	
* Select upgrade file	Browse
	Upgrade

You can upload new firmware to the 5G gateway. If the gateway is functioning properly, upgrading is not necessary unless the new version includes features you require. Click "Browse" to select the firmware file, then click "Upgrade" to begin. The upgrade process takes several minutes.

Note: Upgrading the 5G gateway firmware may reset configuration settings. Please ensure you have backed up your configuration before proceeding. And do not power off the device or press the reset button during this time.