FiberHome AN5506-04-FA Instruction



Version FiberHome AN5506-04-FA

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1. AN5506-04-FA Router power status



Status No.	Indicator	Status	Description		
1		Steady green	The terminal is powered on.		
L	POWER	Off	The power supply is cut off.		
	PON	LOS			
	Off	Off	The GPON terminal is prohibited by the upper-layer device, contact the service provider for help.		
Blinks twice a second		Off	The GPON terminal attempts to set up a connection with its upper-layer device.		
2-3	2-3 Steady on Off Off Blinks once two seconds Blinks twice a second Blinks twice a second		A connection is set up between the GPON terminal and its upper-layer device.		
23			The GPON terminal is not connected to optical fibers or does not receive optical signals.		
			The GPON terminal is a rogue terminal, contact the service provider for help.		
	Blinks once two seconds	Blinks once two seconds	The hardware is faulty.		
		Steady on	The terminal is registered with the softswitch but no service flows are transmitted.		
4	TEL	Blinking	Service flows are transmitted.		
		Off	The terminal is not powered on or fails to be registered to the softswitch.		
_		Steady on	The USB port is connected and is working in the host mode, but no data is transmitted.		
5	USB	Blinking	Data is being transmitted on the USB port.		
		Off	The USB port is not connected.		
		Steady on	The Ethernet connection is in the normal state.		
6	LANI-	Blinking	Data is being transmitted on the Ethernet port.		
		Off	The Ethernet connection is not set up.		
		Steady on	The WLAN function is enabled.		
7	WLAN	Blinking	Data is being transmitted on the WLAN port.		
		Off	The WLAN function is disabled.		
		Steady on	The WPS function is enabled.		
8	WPS	Blinking	A Wi-Fi terminal is accessing the system.		
		Off	The WPS function is disabled.		

2. Internet connection Settings

There are 2 type to set the Internet connection

Type 1. Shortcut

Step 1 Open the Internet Explorer (IE) browser and enter <u>http://192.168.1.1/3bb</u>.

Step 2 In the Quick Configuration page that is displayed, enter the username, password (for surf internet) and validate code.

After finishing, click Save to apply the internet settings.

Step 3 In the Quick Configuration page appears pop-up "Save Completed", click OK to close this page.

Step 4 In the Quick Configuration page that is displayed, click Close to close this page.



Type 2. General

Step 1 Open the Internet Explorer (IE) browser and enter http://192.168.1.1.

Step 2 In the login window, enter the username, password (see the device nameplate for the default username and password Last 4 digit of Mac address) and validate code.

Step 3 Click Login. After the password is authenticated, the Web configuration window is displayed.



Sample picture: The username and password are located at the bottom of the sticker.



3. WAN, Wireless Settings

3.1 WAN settings

When you login to the system, you will see various menu.

Follow these steps:

- Click **Network(1)** → Click BroadBand Settings(2) Screen showing Internet Settings

- Follow these settings(3)
- Service Type ; Choose INTERNET
- Connection Type ; Route
- VLAN ID ; 33
- Priority ; 0
- MTU ; 1492(set between 1280-1492)
- IP Mode(4) ; IPv4 (Choose by device's capacity that customer use for example IPv4, IPV6 or IPV4& IPV6)
- WAN IP Mode(5) ; Choose PPPoE
- Enter Username/Password(6) for surf internet
- Click Apply(7)
- After finishing, enter URL Website to access Internet

an Settings	Network » BroadBand S	ettings » Intern	et Settings			
N Settings 2						
oadBand Settings	You may choose differen	t connection type suitabl	e for your environm	ient. Besides, y	ou may also configure para	meters
nternet Settings	according to the Science	reonneedon ope.				
CP Server	WAN List	News	MD	Daiaaitu	MAN ID BALLS	
thentication	INTERNET		VIDI	23/0	PPPoF	
V6	INTERNE.	1_1(_1)0_00		55/0	1110L	
	Service Type	INTERNET	•		3	
	Connection Type	Route	•			
	VLAN ID	33]		
	Priority	0),		
	NAT	Enable	Ŧ]		
	DNS Relay	Enable	•]		
	MTU	1492		*(1280-1492)		
	LAN Binding	LAN 1 🔽 LAN :	2 🔽 🛛 LAN 3 🔽	LAN 4 🗷		
	SSID Binding	SSID 1 🔽 SSID	2 🔲 SSID 3 🗐	SSID 4 🔳		
	5G SSID Binding	SSID 1 🗹 SSID	2 🔲 SSID 3 🔲	SSID 4 🔳		
	IP Mode	IPv4	-		4	
	WAN IP Mode	PPPoE	•		5	
	PPPoE Mode			1		
	User Name			*(You can inpu	it 1-31 characters) 6	
	Password			*(You can inpu	t 1-31 characters)	
	Operation Mode	Keep Alive	•			
	State			1		
	IP Address]		
	Subnet Mask]		
	Default Gateway]		
	Frimary DINS Server]		
	Secondary DNS Server	7]		

3.2 Wireless Settings

There are 2 step to set wireless connection

Step 1: Set all for Wireless 2.4G or Wireless 5G

- Click Network(1) → Click Wlan Settings(2)

- Click **Basic(3)** for Wireless 2.4G or **5G Basic(4)** for Wireless **5G** (You can choose to set both or just one signal)

Follow these settings(5)

- Radio ON/Off ; Choose RADIO ON to open WiFi signal
- Network Mode; 802.11 b/g/n (Choose the signal channel that you want)
- Frequency Bandwidth; 40 MHz (Choose the signal's broadness that you want)
- Frequency (Channel); AutoSelect (Choose the signal that you want)
- Guard interval ; Set usage time and signal quality that you want
 - (Short ; to use near device / Long ; to use far from device)
- Click **Apply(6)** after that go to step 2 to set password

388	Ct	1	0it	A1	Warrant	Logout
BROADBAND	Status	Network	Security	Application	Management	
Wlan Settings 4	Net	work » Wlan Set	tings » Basic			
Basic 3 Advanced		You could configure t be set simply with on	he minimum number ly the minimum settin	of Wireless settings for g items.	communication, such as Channel. The	he Access Point can
WIFI Control						
5G Basic 4	5	reless Network				
5G Advanced	R	adio On/Off	RADIO ON			
so with a solution	N	etwork Mode	802.11 b/g/	1 V		
bG WIFI Control	D	omain	THAILAND		\checkmark	
LAN Settings	F	requency Bandwidth	40MHz	~		
BroadBand Settings		requency (Channel)	AutoColoot			
DHCP Server		requency (Channel)	Autoselect	~	_	
Authentication	G	uard Interval	Short 🗸			
TDUC			6 Apply Ca	ncel		
IPV6						

Step 2 : SSID Settings for Wireless 2.4G or Wireless 5G

- Click **Advanced(7)** for Wireless 2.4G or **5G Advanced(8)** for Wireless 5G (You can choose to set both or just one signal)

- **SSID Choice(9)**; 1 (Choose the required number of signals)
 - ; Choose Enable to open the signal
- SSID Name(10); Named that you want (not more than 32 characters)
- Passphrase(11) ; Enter the required password (8-63 characters can enter both letters and numbers

depend on Security Mode)

- Click Apply(12) to record Wireless settings
- After finishing, you can try searching for SSID name that you set and enter the password to test connection
- If the signal is connected, enter URL Website to access the internet

								Logout
BROADBAND	Status	Network	Security	Application	Management	;		
Wlan Settings	N	etwork » Wlan Sett	ings » Advance	d				
Basic Advanced 7 WIFL Control		Setup the wireless second	urity and encryption t	o prevent any unautho	prized access and	monitoring.		
5G Basic		Select SSID						
5G Advanced 8		SSID Choice	1 🗸		(Enable	O Disable *	9
5G WIFI Control		SSID Name						
LAN Settings		SSID Name	3bb		*(1-32 Charac	cters)	Hidden 🗌	10
BroadBand Settings		Security Policy						
DHCP Server		Security Mode	WPAPSKWF	A2PSK 🗸				
Authentication								
IPV6		WPA(Wi-Fi Protected Acc	ess)					
		WPA Algorithms		AES C TKIPAES	3		_ 11	
		Passphrase	•••••	*	(You can input 8-6	64 characters)	
			12 Apply Can	cel				

4. DHCP Settings

DHCP Settings and IP Address management is IP management and distribution that do not give duplicate IP to protect the problem when you using

- Click Network(1) --> Click DHCP Server(2) --> screen showing DHCP Service

Follow these settings(3)

- Type ; Choose Server
- DHCP Start IP ; Set the begin IP Address that you want to use
- DHCP End IP ; Set the end IP Address that you want to use
- DHCP Subnet Mask ; 255.255.255.0 You can change or use as Default
- Click Apply(4)
- DHCP Settings finishing

	1 tatus Network Su	ecurity	Application	Logo
Wlan Settings	Network » DHCP Server »	DHCP Servic	e	
LAN Settings				
BroadBand Settings	You may enable/disable DH	CP functions and	configure the parame	eters as your wish, and become effective after reboot.
DHCP Server 2	DHCP Service			
DHCP Service	Туре	Server 🔻	3	
Authentication	DHCP Start IP	192.168.1.2		
IPV6	DHCP End IP	192.168.1.30		
	DHCP Subnet Mask	255.255.255.0		
	DHCP Primary DNS	192.168.1.1		
	DHCP Secondary DNS			
	DHCP Default Gateway	192.168.1.1		
	DHCP Lease Time	2	Hour 0	Min (1 min - 99 hours)
	Option60	Server -		
	Option 60 Start IP	192.168.1.100		
	Option 60 End IP	192.168.1.255		
	4	Apply Ca	incel	

5. Bridge Mode Settings

Click Network(1) --> Click BroadBand Settings(2) Screen showing Internet Settings Follow these settings(3)

- Service Type ; Choose INTERNET
- Connection Type ; Choose Bridge
- VLAN ID ; 33
- Priority ; 0
- Click Apply(4)

- Set up the router that you want to connect to Internet, then connect both device by connecting Lan cable to the Prepared WAN

- Bridge Mode Settings finished, you can access the internet

		1						Logout
BROADBAND	Status	Network	Security	Applic	ation 1	anagement		
Wlan Settings	1	Network » BroadBand	Settings » I	nternet S	Settings			
LAN Settings						-t Decides		
BroadBand Settings	2	according to the select	ent connection type ed connection type.	suitable for y	our environme	ent. Besides, ye	ou may also configure param	leters
Internet Settings		WAN List						
DHCP Server		WA	N Name		VID/P	riority	WAN IP Mode	
Authentication		INTERN	ET_R_VID_33		33/0		PPPoE	
IPV6		Service Type	INTERNET	3	~			
		Connection Type	Bridge		~	3		
		VLAN ID	33					
		Priority	0					
		LAN Binding	LAN 1 🗹	LAN 2 🗹	LAN 3 🗹	LAN 4 🗹		
		SSID Binding	SSID 1 🗹	SSID 2	SSID 3	SSID 4		
		5G SSID Binding	SSID 1 🗹	SSID 2	SSID 3 🗌	SSID 4 🗌		
			4 Apply Ca	ncel				

6. Forward Port Settings

Forward Port Settings is Port setting for IP Address to use with other device required internal LAN to connect from external LAN such as Mobile phone, Notebook or Computer etc

- Click Application(1) --> Click Port Forwarding(2) --> Screen showing Port Forwarding
- Click **Add(3)** to set other settings to Forward Port

The system will show screen to set other settings as follows(4)

- WAN ; Choose INTERNET_R_VID_33
- Description ; 3BBTEST (Named that you want)
- Public Port ; 8080 (It is the inside Port number that use to view camera)
- IP ; 192.168.1.1 (It is the inside IP number that use to view camera)
- Private Port ; 8080 (It is the outside Port number that use to view camera)
- Protocol ; Choose TCP (Named that you want)
- Enable ; Set to be Enable
- Click Apply(5)

		1			Logo
BROADBAND	Status Network	Security Appli	cation Manager	nent	
7PN	Application » Por	rt Forwarding » Port Forw	varding		
DNS					
ort Forwarding	On this page, you c	could configure port forwarding.			
Port Forwarding				3 Add	Delete Delete All
ort Triggering	Port Forwarding Rules	s List			
	WAN Descript	tion Public Port II	P Private Port	Protocol	Enable
TAT					
IAT IPNP				4	
AT PNP IIZ				4	
AT PNP IIZ EB Port	WAN	INTERNET_R_VID_33	•	4	
AT PNP MZ EB Port iagnosis	WAN Description	INTERNET_R_VID_33 3BBTEST		4	
AT PNP MZ EB Port iagnosis	WAN Description Public Port	INTERNET_R_VID_33 3BBTEST 8080	- 8080	4	
AT PNP WZ EB Port iagnosis	WAN Description Public Port IP	INTERNET_R_VID_33 3BBTEST 8080 192.168.1.1	- 8080	4	
AT PNP WZ EB Port iagnosis	WAN Description Public Port IP Private Port	INTERNET_R_VID_33 3BBTEST 8080 192.168.1.1 8080	- 8080 - 8080	4	
IAT IPNP ■IZ IEB Port Diagnosis	WAN Description Public Port IP Private Port Protocol	INTERNET_R_VID_33 3BBTEST 8080 192.168.1.1 8080 TCP	- 8080 - 8080	4	

- When done, the setting's information will show above(6)
- You can use CCTV after Forward Port settings finished
- In case if you want to set more Port numbers click Add(7) To add additional port numbers

3BB BRDADBAND	Status	Network	Security	Application	Management		Logout
VPN	Appl	ication » Port H	forwarding » P	ort Forwarding			
DDNS							
Port Forwarding		On this page, you could	d configure port forw	arding.			
Port Forwarding					7	Add Delete Dele	te All
Port Triggering	Por	t Forwarding Rules Lis	it				
NAT		WAN D	escription Pub	lic Port IP	Private Port	Protocol Enable	
UPNP		TERNET_R_VID_33	3BBTEST 808	0-8080 192.168.	1.1 8080-8080	TCP Enable	0
DEZ							
WEB Port	W	AN	INTERNET_	R_VID_33			
Diagnosis	De	escription	3BBTEST				
	Pu	iblic Port	8080	- 80	80		
	IP		192.168.1.1				
	Pr	ivate Port	8080	- 80	80		
	Pr	otocol	TCP 💌				
	Er	able	Enable 👻				
			Apply	Cancel			

7. Dynamic DNS

Example: Customer apply Dyndns's Host by use "contact2nma.dyndns.org" name, that is a domain that customers can use to view the camera from any point that no need to remember IP's received from service providers.

- Click Application(1) --> Click DDNS(2) --> Screen showing DDNS Settings

The system will show the screen to fill in as follows(3)

- **Username/Password ;** As customer defined on the web of DDNS service provider (not more than 32 characters)

- Host
- WAN Interface - DDNS Provider
- ; contact2nma.dyndns.org (The name given on the web of DDNS service provider.)
- ; INTERNET_R_VID_33 (Choose the required WAN Name)
- ; www.dyndns.org (Choose a registered DDNS provider)
- Click Apply(4)
- DDNS settings step finished

2RR			1	L	_	Logout
BROADBAND	Status	Network	Security	Application	Management	, k
VPN	App	lication » DDNS	» DDNS Settings			
DDNS 2						
DDNS Settings		You could configure L	JDNS here.			
Port Forwarding	DE	INS 3		_		
Port Triggering	U	Isername	contact2nma	*(1-32 Characte	ers)	
NAT	P	assword	•••••	*(1-32 Characte	ers)	
UPNP	н	lost	contact2nma.dy	ndns.org	*(eg. abc.dyndns.co.za)	
DEZ	V	/AN Interface	INTERNET_R_	VID_33 -		
WEB Port	D	DNS Provider	www.dyndns.o	g 🔻		
Diagnosis			4 Apply Ca	ancel	Remove Configura	tion

8. Power Checking

To check Optical Power when customer have internet problem such as low speed or unstable that Optical Power not more than -28

- Click Status(1) --> Click Optical Info(2) --> Screen showing Optical Power
- Received Power(3); Check Received Power not more than -28
- Power checking finishing



9. Product version, Hardware and software Checking

- Click Status tab(1) → Device Information(2) Product version, Hardware and software Checking(3)

	1				Logout	
BROADBAND St	atus Network	Security	Application	Management		
Device Information	2 Status » Device In	formation » Dev:	ice Information			
Device Information		21 22 22 22 X				
Wireless Status	3 On this page, you can	n query device informa	uon.			
₩an Status	Device Information					
Lan Status	Software Version	RP2614				
Optical Info	Hardware Version	WKE2.134.28	5F1A			
VoIP Call History	Device Model	AN5506-04-F				
	Device Description	GPON				
	ONU State	O1(STATE_IN	IIT)			
	ONU Regist State	INIT				
	LOID	fiberhome				
	CPU Usage	50.00%				
	Memory Usage	33.81%				
	Web Server port	80				

10. Firmware Upgrading

Is Upgrading Firmware of device to be a new version to fix a problem of using such as internet unstable or not compatible with other devices

- Click Management tab(1) → Click Device Management(2) → Click Local Upgrade(3)
- Click **Browse...(4)** Choose file after that the system upgrade automatically
- After upgrade finish, you can Login to other settings

				1_		Logout
BROADBAND	Status	Network	Security	Application	Management	
Account Management	5 N	Management » Device	Management	» Local Upgrade		
Device Management	2					
Restore		On this page, you can during upgrade or do c	browse the local fil other operations, so	e and click the button to a as not to cause damage	upgrade the terminal e and can not be used	equipment software. Do not power off
Local Upgrade	3					
Config Backup		Choose file and Upgrade		Browse		
FTP Server						
Device Reboot						
NTP Check Time						
Log						

11. Restore to Default

There are two steps can restore to Default

Step 1 Hardware (Device reset)

- Press the Router Hardware(Reset) button and hold for 10 seconds, after that the router will restart to be **default**



Step 2 Software(System Reset)

- Click Management(1) --> Device Management(2) --> Click Restore(3)
- Click Restore(4) Restore factory defaults
- Restore Default finished

2RR					1	Logout
BROADBAND	Status	Network	Security	Application	Management	
Account Management	Ma	nagement » Devic	e Management »	Restore		
Device Management	2					
Restore 3		On this page, you ma	y restore several dev	vice configuration.		
Local Upgrade						
Config Backup		Restore 4				
FTP Server						
Device Reboot						
NTP Check Time						
Log	10 10					

12. Ping and Traceroute

12.1 How to Ping Test

Ping Test is using in case of connection test between ONT and destination website to check that website, if it can use normally

- Click Application(1) --> Click Diagnosis(2) --> Screen showing Diagnosis
- Destination Address(3) ; fill in IP, Host Name or Website
- Click Ping(4) to start connection test

2 RR			1				Logout
BROADBAND	Status	Network	Security	Application	Management		
VPN	Арр	lication » Diag	nosis » Diagno	sis			
DDNS							
Port Forwarding		On this page, you cou	uld do network diagno	OSIS.			
Port Triggering							
NAT	D	estination Address		* 3			
UPNP			4 Ping Tra	aceroute			
DMZ						~	
WEB Port							
Diagnosis 2							
Diagnosis							
						~	
						~	

12.2 Traceroute Test

You can use Traceroute to check Server route connection use in case of cannot ping (the destination website cannot be connected)

- Click Application(1) --> Click Diagnosis(2) --> Screen Showing Diagnosis
- Destination Address(3) ; fill in IP, Host Name or Website
- Click Traceroute(4)

			1			Lo	gout
BROADBAND	Status	Network	Security	Application	Management		
VPN	1	Application » Diag	nosis » Diagno:	sis			
DDNS							
Port Forwarding		On this page, you cou	ld do network diagno	sis.			
Port Triggering							
NAT		Destination Address		- 3			
UPNP			Ping Tra	iceroute 4			
DMZ						~	
WEB Port						60 C	
Diagnosis <mark>2</mark>							
Diagnosis							
						\sim	

Note :

- If ONT and the destination website can be connected will show connection such as Reply from and usage times.

- If ONT and the destination website cannot be connected will show "Ping request could not find host Please check the name and try again"

13. Hardware Installation

- Step 1 : Connect The **PON** interface and the optical interface on the wall with the optical fiber(11)
- Step 2 : Connect The LAN interface and the network interface of a computer through an ethernet cable.(6)
- Step 3 : Connect The **Phone** interface with a telephone through a phone cable.
- Step 4 : Connect The **Power** interface with the power adapter, and the plug to the power socket.
- Step 5 : Press the **ON/OFF** button to turn on the device (8)



The following table describes the interface of the device:

No.	o. Port/Button		Description
1	Button 5G WPS	WPS2	The Wps1 buttom to enable or disable the 5 Wi-Fi Protected Setup function
2	Button 5G wireless	WLAN2	The WLAN1 button to enable or disable the 5 WLAN function.
3	Button 2G WPS	WPS1	The Wps1 buttom to enable or disable the 2.4 Wi-Fi Protected Setup funtion
4	Button 2G wireless	WLAN1	The WLAN1 button to enable or disable the 2.4 WLAN function.
5	Port Tel	Phone1,Phone2	Indicates VoIP telephone ports (RJ-11), used to connecting to the ports on telephone sets
6	Port Network	LAN1 - LAN4	The USB interface connecting to the USB storage device
7	Port USB	USB1, USB2	Interface connecting to the power adapter.
8	Button Power	ON/OFF	The Power interface connecting to the DC Power adapter or the storage battery.
9	Port Power	Power	Press the button for a short time to reset the device; press the button for a long time (longer than 10s) to restore the device to the default settings and reset the device.
10	Button Reset	Reset	The fiber interface connecting to the optical fiber.
11	Port Optical	PON	The USB interface connecting to the USB storage device

14. Technical Specification

Туре	Item	Description
Mechanical	Dimension	37 mmx252mmx178mm(HxWxD)
parameter	Weight	570 g approximately
Power supply parameter	DC	DC 12V/2.5A
Power consumption parameter	Power consumption	<15W
_ ·	Operating temperature	-5°C to - 45°C
Environmental	Storage temperature	-40°C to -70°C
parameter	Environmental humidity	10% to 90%, non-condensing

15. Product Overview

product	Function
	- 4 GE Interfaces
	- 2 Phone Interfaces
AN5500-04-FA	- Wi-Fi Interfaces (2.4GHz, 5GHz)
	- USB Interfaces

16. Packing List

Item	Quantity
GPON Terminal	1
Power Adapter	1
Ethernet Cable	1
Phone Cable	1
Quick Start	1