# FiberHome HG6245N



## Instruction

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## 1. HG6245N Router power status

Power	PON	LOS	Internet	<b>2.4</b> G	5G.	WPS	USB	LAN1	LAN2 LA	N3 LAN4	TEL1 TEL2
1	2	3	4	5	6	7	8		9		10

Status No.	Indicator	Status	Description						
		Steady green	The terminal is powered on.						
1	POWER	Steady orange	The device is powered by a backup battery.						
		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.						
2 - 3 B B tw	Blinks twice a second	Off	The GPON terminal attempts to set up a connection with its upper-layer evice.						
	Steady on	Off	A connection is set up between the GPON terminal and its upper-layer device.						
	Off	Blinks once two seconds	The GPON terminal is not connected to optical fibers or does not receive optical signals.						
	Blinks twice a second	Blinks twice a second	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	Able to connect to the Internet						
4	Internet	Off	Unable to connect to the Internet						
		Blinking	The device is in the process of receiving / sending Internet data.						
5	2.4G	Wireless conn	ce a dThe GPON terminal is a rogue terminal, contact the service provider force hdsThe hardware is faulty.onAble to connect to the Internetunable to connect to the InternetgThe device is in the process of receiving / sending Internet data.						
6	5G	Wireless conn	ection indicator light if transmitting / receiving is active, blinking green.						
		Steady on	The WPS function is enabled.						
7	WPS	Blinking	A Wi-Fi terminal is accessing the system						
		Off	The WPS function is disabled.						
8	USB	USB connection	on status indicator						

		Steady on	The Ethernet connection is in the normal state.
9	LAN1 - LAN4	Blinking	Data is being transmitted on the Ethernet port.
		Off	The Ethernet connection is not set up.
10	Tel1 - Tel2	Indicator light	for connection with VoIP line

## 2. Internet connection Settings

- Open the browser and enter 192.168.1.1

- In the login window, enter the username, password (They are located on the sticker attached to the bottom of the router)

- Enter the Validate Code as shown.

- Click Login to enter the WAN, Wireless settings



**Sample picture:** The username and password are located on the sticker attached to the bottom of the router.

S/N: FHTT92F4D617 MAC ADDRESS: 14:22:33:F4:D6:17-1F(9) IP: 192.168.1.1 USER NAME: admin PASSWORD: D618 SSID(2.4GHz): 3bb-wlan SSID(5GHz): 3bb-5G-wlan WLAN KEY: 1111100000 Item Code: 56FX045TI

#### 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 between1280-1492)
- IP Mode (4); IPv4 (Choose by device's capacity that you use for example IPv4, IPV6 or IPV4&IPV6)
- WAN IP Mode (5); Choose PPPoE
- Enter Username/Password (6) You can check from installation report
- Click Apply (7)
- After finished, enter URL Website to access Internet

lan Settings	Network » BroadBand	Settings » Internet	Settings			
AN Settings 🔰						
roadBand Settings	You may choose differe according to the selecte	nt connection type suitable for d connection type.	or your environme	ent. Besides, you	i may also configure para	imeters
Internet Settings						
HCP Server	WAN LIST	N Name	VID/P	Priority	WAN IP Mode	
uthentication	INTERNE	ET R VID 33	3	3/0	PPPoE	
P¥6						
	Service Type	INTERNET	•		3	
	Connection Type	Route	•			
	VLAN ID	33				
	Priority	0				
	NAT	Enable	•			
	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					
	User Name			*(You can input	1-31 characters) 6	
	Password			*(You can input	1-31 characters)	
	Operation Mode	Keep Alive	•			
	State					
	IP Address					
	Subnet Mask					
	Default Gateway					
	Primary DNS Server					
	Occordon: DNIC Conver					

#### 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 Wi-Fi 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); Auto Select (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

BROADBAND	Status	Network	Security	Application	Management	
lan Settings 2	N	etwork » Wlan Sett	ings » Basic			
Basic 3 Advanced WIFI Control		You could configure th be set simply with only	e minimum number o the minimum setting	f Wireless settings for items.	communication, such as Channel. The Access P	pint can
5G Basic 4	5	Dadio On/Off	BADIO ON			
5G Advanced		Natio Off Off	RADIO ON			
5G WIFI Control		Demoin	002.11 D/g/II	•		
AN Settings		Domain Second and data			· ·	
roadBand Settings		Frequency Bandwidth	40MHz	<b>*</b> ]	-	
HCP Server		Frequency (Channel)	AutoSelect	~		
uthentication		Guard Interval	Snort 🗸			
ove			6 Apply Can	cel		

#### 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 finished, enter URL Website to access the internet

						Logou
BROADBAND	Status Netw	ork Security	Application	Management		
Wlan Settings	Network » W	lan Settings » Adva	nced			
Basic						
Advanced 7	Setup the v	vireless security and encrypt	ion to prevent any unauth	orized access and monitoring.		
WIFI Control	Calent COID					
5G Basic	Select SSID	4	-	Cooble	O Disable *	1.
5G Advanced 8	SSID Choice	1	~	Enable	O Disable "	9
5G WIFI Control	SSID Name					
LAN Settings	SSID Name	3bb		*(1-32 Characters)	Hidden 🗌	10
BroadBand Settings	Security Polic	v				
DHCP Server	Security Mode	WPAPS	(WPA2PSK 🗸			
Authentication						
IPV6	WPA(Wi-Fi Pr	otected Access)				
	WPA Algorith	ns O TKIP	AES O TKIPAES	S		
	Deserbases			*(You can input 8-64 character	S)	

### 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

### 4.1 IP LAN Router Fixing

- Click Network (1) --> Click LAN Setting (2) --> Screen showing LAN Setup

Follow these settings (3)

- LAN Interface; Specify the IP Address as you want to use.
- Subnet Mask; 255.255.255.0 (You can change various values or use it as your Default value.)

BROADBAND	Status Netwo	ork Security	Application Management	
WLAN Settings	Network » LAN Setting	s » LAN Settings		
LAN Settings				
LAN Settings	2 You may enable/disable DH	CP functions and configure	networking parameters as your wish, and it will take effect after	
DHCP Static IP Settings	restarting.			
BroadBand Settings	AN Setup		3	
Authentication	Lan Interface	192.168.1.1		
VoIP Settings	Subnet Mask	255.255.255.0		
Route Settings		C		
	IPv6 Config			
	IPv6/Prefix	fe80::1/64	(For example, fe80::1/64)	
	Managed Flag			
	Other Config Flag			
	Max RA Interval	600	Seconds (4-1800)	
	Min RA Interval	200	Seconds (3-1350)	
	DNS Source	Network Connection	1 V	
	Prefix Mode	Network Connection	1 🗸	
	Enable DHCPv6 Service			
	Start IPv6 Address	0000:0000:0000:0002		
	End IPv6 Address	0000:0000:0000:0064		

#### 4.2 DHCP Settings and IP Address Management

- Click Network (1) --> Click LAN Setting (2) --> Follow these settings (3)
- Type ; Choose Server
- DHCP Start IP; Specify the beginning IP Address that you want to use.
- DHCP End IP; Specify the ending 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 finished

BROADBAND	Status Netwo	ork Security	Application Management				
WLAN Settings	Network » LAN Setting	js » LAN Settings					
LAN Settings	Max RA Interval	600 Se	econds (4-1800)				
LAN Settings 2	Min RA Interval	200 Se	econds (3-1350)				
DHCP Static IP Settings	DNS Source	Network Connection	Network Connection V				
BroadBand Settings	Prefix Mode	Network Connection	Network Connection 🗸				
	Enable DHCPv6 Service						
/olP Settings	Start IPv6 Address	0000:0000:0000:0002					
Route Settings	End IPv6 Address	0000:0000:0000:0064					
	DHCP Service						
	Туре	Server 🗸					
	DHCP Start IP	192.168.1.2					
	DHCP End IP	192.168.1.254	3				
	DHCP Subnet Mask	255.255.255.0	5				
	DHCP Primary DNS	192.168.1.1					
	DHCP Secondary DNS						
	DHCP Default Gateway	192.168.1.1					

## 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 ; Enter the VLAN ID of NODE
- 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 finish, you can access the internet

BROADBAND	Status	Network	Security	Applicatio	n Managem	ent		
WLAN Settings	Network »	BroadBand Se	ttings » Internet S	ettings				
LAN Settings 2								
BroadBand Settings	You may cho	ose different conne	ection type suitable for	your environment.	Besides, you may	also configure param	eters	
Internet Settings	according to	are selected conin	ection type.					
IPTV Settings							Add	Delet
Authentication	WAN List							2000
VoIP Settings	ID	ID WAN Name			Priority/VID	WAN IP Mode		
Route Settings	1	1_TR069_II	NTERNET_R_VID_209	8	0/2098	IPv4		
	Service Type		INTERNET	v )				
	Connection T	ype	Bridge	v				
	VLAN ID		2098		*(1-4094)			
	Priority		0		*(0-7)			
	LAN Binding		🗹 LAN 1 🗹 LAN	12 🔽 LAN 3 🔽	LAN 4			
	2.4G SSID Bi	nding			SSID4			
	5G SSID Bind	ting			SSID4			
		1.	4					

### 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; CCTV (Named that you want)
- **Protocol** ; Choose **TCP/UDP** (Named that you want)
- **Public Port** ; 90 (It is the inside Port number that use to view camera)
- **IP** ; **192.168.1.200** (It is the inside IP number that use to view camera)
- Private Port; 90 (It is the outside Port number that use to view camera)
- Enable ; Set to be Enable
- Click Apply (5)

BROADBAND	Status	Network	Security	Ap	plication	lanagement	
PN	Application »	Port Forward	ing » Port Forv	varding	l.		
DNS							
ort Forwarding	On this page, yo	ou could configure	port forwarding.				
Port Forwarding	2						3
λ <b>Τ</b>						Add D	elete Delete A
PNP	Port forwarding	Rules List	Description	Destas	al Dublic II	Dublic Dert Drivete ID Drivete D	et Cashla
AZ	1 1 TR069 INT	ERNET R VID	33 CCTV	TCP/U		90-90 192 168 1 200 90-90	Enable
agnosis							
	Wan		1_TR069_INTE	RNET_R	_VID_33 \		
	Description		CCTV		(0-31 chara	cters, including alphanumeric, '-' and '_')	
	Protocol	(	TCP/UDP	~			
	Public IP						4
	Public Port		90		90	* (1-65535)	
	Private IP		192.168.1.200		-		
	Private Port		90		90	* (1-65535)	
	Enable	[	Enable	~			
	Private Port Enable		90 Enable	~	90	* (1-65535)	

- When done, the setting's information will show above (6)
- You can use CCTV after Forward Port settings finish

- In case if you want to set more Port numbers click **Add (7)** to add additional port numbers and the information provided will show more results

	HG6245N					Logout
BROADBAND	Status	Network	Security	Application	Management	
VPN	Application	» Port Forward	ing » Port Forv	varding		f
DDNS						
Port Forwarding	On this page	e, you could configure	port forwarding.			
Port Forwarding						7
NAT						Add Delete Delete All
UPNP	Port forward	ing Rules List	Description	Protocol Dublic ID	Dublic Dort Drivate ID	Drivate Dort Enable
DMZ	1 1_TR069_	INTERNET_R_VID_3	33 CCTV	TCP/UDP	90-90 192.168.1.2	00 90-90 Enable
Diagnosis	Wan	Į.	1_TR069_INTE	RNET_R_VID_33 ¥	]	

## 7. Dynamic DNS

Example : You apply Dyndns's Host by use "contact2nma.dyndns.org" name, that is a domain that you 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)

- WAN Interface ; INTERNET\_R\_VID\_33 (Choose the required WAN Name)

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

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

	Status	Network	Security	Application	1 Manager	nent			
VPN	Application »	DDNS » DD	INS	Application	nanagor	none			
DNS									
DDNS 2	You could conf	igure DDNS here	No						
Port Forwarding									
TAT	The second second						Add	Delete	Delete All
IPNP	DDNS	Wan	Heorna	20	DDNS Drovi	dor		Host	
OMZ			-	iie -		uei			
Diagnosis	Enable		Enable O Disat	ble *					
	Wan Interface		1_TR069_INTERN	NET_R_					
	Username		somjeed	*(1-32 Characters	) 2				
	Password			*(1-32 Characters	)				
	Host		somjeed.dyndns.org	*(eg. abc.dyndns.	co.za)				
	DDNS Provider		www.dyndns.org	~					

#### 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 (If more than that please sent report to technician to check)

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

	1				Logout
BROADBAND Sta	atus Network	Security	Application	Management	
Device Information	Status » Optical Info	o » Optical In	nfo		
Wireless Status					
Wan Status	On this page, you can query state of optical power.				
Lan Status	Optical Info				
Optical Info 🙎	Transmitted Power	-40.00 dBm	4		
Optical Info	Received Power	-40.00 dBm	3		
VoIP Call History	Operating Temperature	42.10 °C			
	Supply Voltage	3.30 V			
	Bias Current	0.00 mA			

9. Product version, Hardware and software Checking

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

<b>KRR</b>	1G0245N	1				Logou
BROADBAND	Status	Network	Security	Application	Management	
evice Information	Status » Devic	e Information	» Device Inform	mation		
Device Information 2						
Vireless Status	On this page, you	can query device	information.			
VAN Status	_				_	
AN Status	Device Information	n				
Optical Info	Software Version	RI	P2820			
olP Status	Hardware Version	W	KE2.094.347A02			
olP Call History	Device Model	H	G6245N			
	Device Description	G	PON			
	Serial Number	FI	HTT92F4D617		3	
	ONU State	0	1(STATE_INIT1)		-	
	ONU Regist State	IN	ПТ			
	LOID	fib	erhome			
	CPU Usage	39	6			
	Memory Usage	54	1.03%			
	Flash Usage	54	196			
	Web Server port	80	)			
	System UpTime	0	d 1 h 38 m 52 s			

## **10. Ping and Traceroute**

#### **10.1** How to Ping Test

It is used in the case of testing the connection between ONT and the destination website to check whether the website can be used normally or not.

- Click Application(1) --> Click Diagnosis(2) --> Click Ping Diagnosis(3)
- Interface(4) select 1\_TRO69\_INTERNET\_R\_VID\_2099
- Destination Address (5) ; Enter IP, Host Name or Website.
- Click **Diagnossis (6)** to start the connection test.

	HG6245N				1	Logou
BROADBAND	Status	Network	Security	Application	Management	
VPN	Application	» Diagnosis »	Ping Diagnosis		-	
DDNS						
Port Forwarding	On this page	e, you could do p	ping diagnosis.	4		
Port Triggering	Interface		1 TR069 INTE	ERNET F 🗸		
NAT	IP Version		IPv4	~		
UPNP	Repeated Tir	nes	4	* (1-10)		
DMZ	Destination A	ddress		* 5		
Web Port 2			Diagnosis 6			
Ping Diagnosis Tracert Diagnosis						

#### **10.2 How to Traceroute Test**

Traceroute can be used to check server route connection, used in case of ping not found (unable to reach destination).

- Click Application(1) --> Click Diagnosis(2) --> Click Tracert Diagnosis(3)
- Destination Address(4) ; Enter IP, Host Name or Website
- Click **Diagnossis(5)**



## 11. Share USB Flash Drive (FTP) files via USB Port

- Click Management (1) --> Click Device Management (2) FTP (3)

Enter the following information: (4)

- FTP Server ; Click Enable
- User Name ; as you set
- Password ; as you set
- กดปุ่ม Apply (5) finish the steps

BRUADBAND	Status	Network	Security	Application	management	*
count Management	Managemen	t » Device Mana	agement » FIP			
vice Management	You could conf	igure FTP server her	re.			
vice Reboot	ETD Server					
P Check Time	FTP Server	(	Enable ODisable	. 4		
	Username	a	dmin	(You can	input 1-32 characters, i	ncluding alphanumeric and '_';
	Password			You can ir	nput 1-8 characters, incl	uding alphanumeric and '_')
		<b>5</b> A	Apply Cancel			
og	Password		upply Cancel	You can in	nput 1-8 characters, incl	uding alphanumeric and '_

#### **12. Restore to Default**

There are 2 steps to 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 Default steps finished

	IG6245N						Logou
BROADBAND	Status	Network	Security	Application	Management	1	
Account Management	Managemen	t » Device Mana	agement » Res	tore		1	
Device Management							
Restore 3	On this page, y	you may restore seve	ral device configura	ition.			
Device Reboot	<b>—</b> .						
NTP Check Time	Restore 4						
FTP							
Log							

#### **13. Hardware Installation**

- Step 1: Connect the optical fiber cable to the PON port of the GPON Terminal.
- Step 2: Connect LAN cable from Port Lan of GPON Terminal to LAN Port of Computer.
- Step 3: Connect the AC Adapter to the Power Port. (DC-IN)
- Step 4: Press the **ON/OFF** button to turn on the device.



## **Equipment details table**

No.	Port/Button		Description
1	WPS Button	WPS	To enable Wi-Fi Protected Setup, Wi-Fi setting is required. Protected Setup software first, then press the WPS button to launch it.
2	WLAN Button	WLAN	To enable or disable the WLAN. The default will be enabled
3	Tel Port	Phone1,Phone 2	For connecting to a phone
4	Port Network	LAN1 ถึง LAN4	For connecting to the computer's Ethernet port.
5	USB Port	USB	For connecting to USB
6	Power Port	Power	For connecting to Power Adapter
7	Power Button	ON/OFF	For connecting to Power Adapter
8	Reset Button	Reset	For resetting the device by pressing the button for 10 seconds.

## **14. Technical Specification**

Туре	Item	Description	
Machanical parameter	Dimension	37 mmx252mmx178mm(HxWxD)	
Mechanical parameter	Weight	660 g approximately	
Power supply parameter	Power Adapter Input	DC 12V/2A	
Power consumption parameter	Power consumption	<19.1W	
	Operating temperature	-5°C to - 45°C	
Environmental parameter	Storage temperature	-40°C to -70°C	
	Environmental humidity	10% to 90% , non-condensing	

## **15. Product Overview**

product	Function
	- 4 GE Interfaces
	- 2 Phone Interfaces
ANSSU0-04-FA	- USB Interfaces
	- Wi-Fi Interfaces (2.4GHz, 5GHz )

## 16. Packing List

Item	Quantity
GPON Terminal HG245N	1
Power Adapter	1
Ethernet Cable	1
Phone Cable	1
Quick Start	1