

EchoLife HG8145V GPON Terminal

Instruction



Model : EchoLife HG8145V

1. HG8145V Router power status
2. Internet connection Settings
3. WAN, Wireless Settings
4. DHCP Settings
5. Bridge Mode Settings
6. Forward Port Settings
7. Dynamic DNS Settings
8. Voice (Eth,IP Host) Settings
9. IPTV Settings
10. Power Checking
11. Hardware Installations
12. Technical Specifications
13. Product Overview
14. Packing List

1. HG8145V Router power status



Status No.	Indicator	Status	Description
1	POWER	Steady green	The terminal is powered on.
		Off	The power supply is cut off.
2-3	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.
	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.
4	TEL	Steady on	The terminal is registered with the softswitch but no service flows are transmitted.
		Blinking	Service flows are transmitted.
		Off	The terminal is not powered on or fails to be registered to the softswitch.
5	USB	Steady on	The USB port is connected and is working in the host mode, but no data is transmitted.
		Blinking	Data is being transmitted on the USB port.
		Off	The USB port is not connected.
6	LAN1-LAN4	Steady on	The Ethernet connection is in the normal state.
		Blinking	Data is being transmitted on the Ethernet port.
		Off	The Ethernet connection is not set up.
7	WLAN	Steady on	The WLAN function is enabled.
		Blinking	Data is being transmitted on the WLAN port.
		Off	The WLAN function is disabled.
8	WPS	Steady on	The WPS function is enabled.
		Blinking	A Wi-Fi terminal is accessing the system.
		Off	The WPS function is disabled.

2. Internet connection Settings

There are 2 types. to set the Internet connection

Type 1. Shortcut

- **Open the Internet Explorer (IE) browser** and enter **<http://192.168.1.1/3bb>**
- Enter the **username/password at Radius**; Guide the customer check from installation reports
- Enter validate code.
- Click Save then page appears pop-up "**Save Completed**", click **OK** to close this page.
- In the Quick Configuration page that is displayed, click **Close** to close this page.
- Settings finished, you can enter URL Website to access the internet



Type 2. General

- **Open the Internet Explorer (IE) browser** and enter **<http://192.168.1.1>**
- In the login window, enter the username, password that show on the back of the device.
- Enter **validate code**
- Click Login to get **WAN, Wireless Settings**



Note.

- If you do not perform any operations after logging in to the system for five minutes, you will exit the system and the system automatically returns to the login interface.
- The system will be locked if you input incorrect Username and Password three consecutive times. One minute later, it will be unlocked.

3. WAN, Wireless Settings

3.1 WAN Settings

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

Follow these steps:

- Click **WAN(1)** --> Click **WAN Configuration(2)**
- At the box **Connection Name(3)** Click the mark **1_TR069_INTERNET_R_VID_33** to set password

password

Follow these settings **(4)**

- **Enable WAN** ; to open signal connecting
- **Encapsulaion Mode** ; Choose **PPPoE**
- **Protocol Type** ; Choose **IPv4/IPv6** (Choose by device's capacity use for example IPv4,IPV6 or IPV4&IPV6)
- **WAN Mode** ; Choose **Route WAN**
- **Service Type** ; **TR069_INTERNET** (Default settings)
- **Enable VLAN** ;
- **VLAN ID** ; **33**
- Enter the **username/password(5)** at **Radius**; Guide the customer check from installation reports
- Click **Apply(6)**
- After finishing, enter URL Website to access Internet

3BB HG8145V
Status **WAN** LAN IPv6 WLAN Security Route Forward Rules Network Application Voice System Tools Logout

WAN Configuration **2** WAN > WAN Configuration

DHCP Client Option Configuration
DHCP Client Request Parameter

On this page, you can configure WAN port parameters. A home gateway communicates with an upper-layer device through the WAN port. During the communication, WAN port parameters must be consistent with upper-layer device parameters.

	Connection Name	VLAN/Priority	Protocol Type
<input checked="" type="checkbox"/> 3	1_TR069_INTERNET_R_VID_33	33/0	IPv4/IPv6

Basic Information

Enable WAN: **4**

Encapsulation Mode: IPoE PPPoE

Protocol Type: IPv4/IPv6

WAN Mode: Route WAN

Service Type: TR069_INTERNET

Enable VLAN:

VLAN ID: 33 *(1-4094)

802.1p Policy: Use the specified value

802.1p: 0

MRU: 1490 (1280-1540)

User Name: iadtest@pppoe **5**

Password:

Enable LCP Detection:

Binding Options: LAN1 LAN2 LAN3 LAN4
 SSID1 SSID2 SSID3 SSID4 SSID5 SSID6 SSID7 SSID8

IPv4 Information

IP Acquisition Mode: Static DHCP PPPoE

Enable NAT:

NAT type: Port-restricted cone NAT

Multicast VLAN ID: (0-4094; 0 indicates untagged VLAN.)

IPv6 Information

Prefix Acquisition Mode: DHCPv6-PD Static None

IP Acquisition Mode: DHCPv6 Automatic Static None

Prefix Mask: (IPv6 address/64)

Multicast VLAN ID: (0-4094; 0 indicates untagged VLAN.)

6 Apply Cancel

3.2 Wireless Settings

- Click **WLAN(1)** --> Click **2.4G Basic Network Settings (2)** Or **5G Basic Network Settings (3)**
(You can choose to set both or just one signal)

You can choose to open the connection to a signal that has already been set or create new SSID Configuration as follows

In case of choose to open the connection to a signal that has already been set.

- Click **(4)** --> choose **Enable SSID(5)** ; To open the connection to a signal that has already been set.
- Click **Apply(6)**
- After finished, enter URL Website to access Internet

The screenshot shows the router's configuration interface for the WLAN section. The breadcrumb trail is: WLAN > 2.4G Basic Network Settings. The left sidebar contains navigation options: 2.4G Basic Network Settings (2), 2.4G Advanced Network Settings, 5G Basic Network Settings (3), 5G Advanced Network Settings, Automatic WiFi Shutdown, and WiFi Coverage Management. The main content area includes a warning box, a checked 'Enable WLAN' checkbox, and a table of SSID configurations. The table has columns for SSID Index, SSID Name, SSID Status, Number of Associated Devices, Broadcast SSID, and Security Configuration. One SSID is listed: 1, 3bb-wlan, Enabled, 32, Enabled, Configured. Below the table, the 'SSID Configuration Details' for '3bb-wlan' are shown, with 'Enable SSID' checked. At the bottom, the 'Apply' button is highlighted.

3BBHG8145V
BROADBAND
Status WAN LAN IPv6 **WLAN** Security Route Forward Rules Network Application Voice System Tools
Logout

2.4G Basic Network Settings 2 WLAN > 2.4G Basic Network Settings

2.4G Advanced Network Settings

5G Basic Network Settings 3

5G Advanced Network Settings

Automatic WiFi Shutdown

WiFi Coverage Management

On this page, you can set the basic parameters of 2.4 GHz wireless network(When the 2.4 GHz wireless network is disabled, this page is blank).
⚠ Caution:
1. Wireless network services may be interrupted temporarily after you modify wireless network parameters.
2. It is recommended that you use the WPA2 or WPA/WPA2 authentication mode for security purposes.

Enable WLAN

New Delete

SSID Index	SSID Name	SSID Status	Number of Associated Devices	Broadcast SSID	Security Configuration
1	3bb-wlan	Enabled	32	Enabled	Configured

SSID Configuration Details

SSID Name: 3bb-wlan * (1-32 characters)

5 Enable SSID:

Number of Associated Devices: 32 * (1-32)

Broadcast SSID:

Enable WMM:

Authentication Mode: WPA/WPA2 PreSharedKey

Encryption Mode: AES (TKIP&AES mode is recommended)

WPA PreSharedKey: Hide * (8-63 characters or 64 hexadecimal characters)

WPA Group Key Regeneration Interval: 3600 *(600-86400s)

Enable WPS:

WPS Mode: PBC

PBC: Start WPS

6 Apply Cancel

In case of create new SSID Configuration

- Click **New(7)** to set other settings **(8)**
- **SSID Name** ; Named that you want (not more than 32 characters)
- **Enable SSID** ; Click To open the connection to a signal that has already been set.
- **Number of Associated Device** ; can set maximum 32 support Devices
- **Click Apply(9)** to go to set Password of Wireless step

The screenshot shows the configuration interface for a 3BB HG8145V router. The top navigation bar includes 'Status', 'WAN', 'LAN', 'IPv6', 'WLAN', 'Security', 'Route', 'Forward Rules', 'Network Application', 'Voice', and 'System Tools'. The 'WLAN' tab is active, showing '2.4G Basic Network Settings'. A sidebar on the left lists various settings like '2.4G Advanced Network Settings', '5G Basic Network Settings', etc. The main content area contains a yellow warning box, a 'Enable WLAN' checkbox, a table of SSID configurations, and a detailed configuration form for a selected SSID. Red boxes and numbers highlight key actions: 'New' (7), the SSID configuration fields (8), and the 'Apply' button (9).

3BB HG8145V Logout

Status WAN LAN IPv6 **WLAN** Security Route Forward Rules Network Application Voice System Tools

2.4G Basic Network Settings WLAN > 2.4G Basic Network Settings

2.4G Advanced Network Settings

5G Basic Network Settings

5G Advanced Network Settings

Automatic WiFi Shutdown

WiFi Coverage Management

On this page, you can set the basic parameters of 2.4 GHz wireless network(When the 2.4 GHz wireless network is disabled, this page is blank).

⚠ Caution:

1. Wireless network services may be interrupted temporarily after you modify wireless network parameters.
2. It is recommended that you use the WPA2 or WPA/WPA2 authentication mode for security purposes.

Enable WLAN 7 **New** Delete

SSID Index	SSID Name	SSID Status	Number of Associated Devices	Broadcast SSID	Security Configuration
<input type="checkbox"/> 1	3bb-wlan	Enabled	32	Enabled	Configured

SSID Configuration Details

SSID Name: * (1-32 characters) **8**

Enable SSID:

Number of Associated Devices: * (1-32)

Broadcast SSID:

Enable WMM:

9

The system will show screen to set other settings as follows(10)

- **Authentication Mode** ; Choose WPA/WPA2 PreSharedkey (Named that you want)
- **Encryption Mode** ; Choose **AES** (Named that you want)
- **WPA pre-shared key** ; Enter the required password (8-63 characters)
- **WPA Group Key Regeneration Interval** ; **3600 enter as required (600-86400s)** To determine the security level of the password.
- **Click Apply(11)**
- If the signal is connected, enter URL Website to access the internet

3BB HG8145V
Status WAN LAN IPv6 **WLAN** Security Route Forward Rules Network Application Voice System Tools

2.4G Basic Network Settings WLAN > 2.4G Basic Network Settings

2.4G Advanced Network Settings
5G Basic Network Settings
5G Advanced Network Settings
Automatic WiFi Shutdown
WiFi Coverage Management

On this page, you can set the basic parameters of 2.4 GHz wireless network(When the 2.4 GHz wireless network is disabled, this page is blank).
⚠ Caution:
1. Wireless network services may be interrupted temporarily after you modify wireless network parameters.
2. It is recommended that you use the WPA2 or WPA/WPA2 authentication mode for security purposes.

Enable WLAN New Delete

SSID Index	SSID Name	SSID Status	Number of Associated Devices	Broadcast SSID	Security Configuration
<input type="checkbox"/> 1	3bb-wlan	Enabled	32	Enabled	Configured
<input type="checkbox"/> 2	3bb	Enabled	32	Enabled	Unconfigured

SSID Configuration Details

SSID Name: * (1-32 characters)

Enable SSID:

Number of Associated Devices: * (1-32)

Broadcast SSID:

Enable WMM:

Authentication Mode: **10**

Encryption Mode:

WPA PreSharedKey: Hide * (8-63 characters or 64 hexadecimal characters)

WPA Group Key Regeneration Interval: *(600-86400s)

Enable WPS:

WPS Mode:

AP-PIN:

11

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 **LAN(1)** --> Click **LAN Host Configuration(2)**
- **IP Address(3)** ; Enter IP Address as required
- **Subnet Mask(4)** ; 255.255.255.0 You can change or use as Default
- Click **Apply(5)**
- DHCP Settings finished

3BB HG8145V 1
BROADBAND Status WAN LAN IPv6 WLAN Security Route Forward Rules Network Application Voice System Tools Logout

LAN Port Work Mode LAN > LAN Host Configuration

LAN Host Configuration 2

LAN Public-Network Host
DHCP Server Configuration
DHCP Server Option Configuration
DHCP Static IP Configuration

On this page, you can configure the LAN management IP address. After changing the LAN management IP address, ensure that the primary address pool on the DHCP server is in the same subnet as the new LAN IP address. Otherwise, the DHCP server does not function properly.

Primary Address

Primary IP Address:	192.168.1.1	3
Primary Address Subnet Mask:	255.255.255.0	4

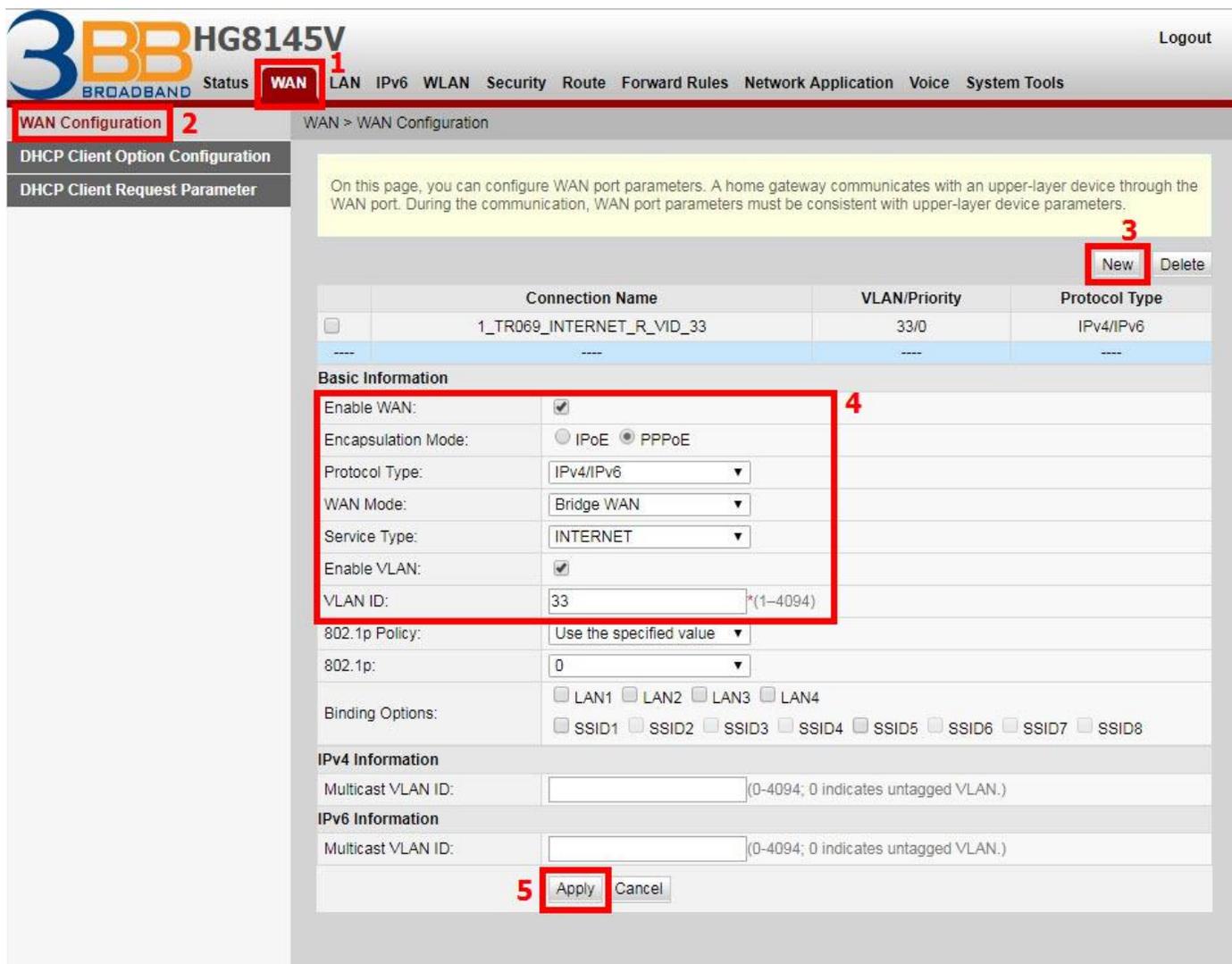
5 Apply Cancel

5. Bridge Mode Settings

- Click **WAN(1)** --> Click **WAN Configuration(2)** --> Click **New(3)**

Follow these settings (4)

- **Enable WAN** ; to open signal connecting
 - **Encapsulation Mode** ; Choose **PPPoE**
 - **Protocol Type** ; Choose **IPv4/IPv6** (Choose by device's capacity use for example IPv4,IPv6 or IPV4&IPV6)
 - **WAN mode** ; Choose **Bridge WAN**
 - **Service Type** ; Choose **INTERNET**
 - **Enable VLAN** ; to open signal connecting
 - **VLAN ID** ; **33** set VLAN as required, but must be unique (1-4094 characters)
 - Click **Apply(5)**
- 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



3BBHG8145V
BROADBAND
Status **WAN** LAN IPv6 WLAN Security Route Forward Rules Network Application Voice System Tools Logout

WAN Configuration **2** WAN > WAN Configuration

DHCP Client Option Configuration
DHCP Client Request Parameter

On this page, you can configure WAN port parameters. A home gateway communicates with an upper-layer device through the WAN port. During the communication, WAN port parameters must be consistent with upper-layer device parameters.

3 New Delete

	Connection Name	VLAN/Priority	Protocol Type
<input type="checkbox"/>	1_TR069_INTERNET_R_VID_33	33/0	IPv4/IPv6
----	----	----	----

Basic Information

4

Enable WAN:

Encapsulation Mode: IPoE PPPoE

Protocol Type: IPv4/IPv6

WAN Mode: Bridge WAN

Service Type: INTERNET

Enable VLAN:

VLAN ID: 33 *(1-4094)

802.1p Policy: Use the specified value

802.1p: 0

Binding Options: LAN1 LAN2 LAN3 LAN4
 SSID1 SSID2 SSID3 SSID4 SSID5 SSID6 SSID7 SSID8

IPv4 Information

Multicast VLAN ID: (0-4094; 0 indicates untagged VLAN.)

IPv6 Information

Multicast VLAN ID: (0-4094; 0 indicates untagged VLAN.)

5 Apply Cancel

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 **Forward Rules(1)** --> Click **Port Mapping Configuration(2)**
- Click **New(3)** เพื่อกำหนดค่า Forward Port

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

- **Enable Port Mapping** ; Choose
- **Mapping Name** ; Named that you want
- **WAN Name** ; You can change or use as Default
- **Internet Host** ; 192.168.1.8 Is the IP number of the device that you want to set up Forward Port
- **External Source IP Address** ; Enter the port number to view the CCTV.
- Click **Apply(5)**
- You can use CCTV after Forward Port settings finished
- In case if you want to set more Port numbers click **New** To add additional port numbers

3BB HG8145V
Status WAN LAN IPv6 WLAN Security Route **Forward Rules** Network Application Voice System Tools Logout

DMZ Configuration Forward Rules > Port Mapping Configuration

Port Mapping Configuration 2

Port Trigger Configuration
IP Mapping Configuration

On this page, you can configure port mapping parameters to set up virtual servers on the LAN network and allow these servers to be accessed from the Internet.
Note: The well-known ports for voice services cannot be in the range of the mapping ports.

3 New Delete

Mapping Name	WAN Name	Internal Host	External Host	Enable
---	---	---	---	---

Type: User-defined Application

Application: Select.. 4

Enable Port Mapping:

Mapping Name:

WAN Name: 1_TR069_INTERNE

Public IP: (It can be an IP address out of the WAN.)

Internal Host: 192.168.1.8 * support-PC

External Source IP Address:

Add

5 Apply Cancel

7. Dynamic DNS Settings

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 **Network Application(1)** --> Click **DDNS Configuration(2)** --> Click **New(3)** เพื่อสร้าง DDNS
The system will show the screen to fill in as follows(4)
- **WAN Name ; 1_TR069_INTERNET_R_VID_33** (Choose the required WAN Name)
- **Host ; contact2nma.dyndns.org** (The name given on the web of DDNS service provider.)
- **Service Provider ; เลือก dyndns** (Choose a registered DDNS provider)
- **Service Address ; members.dyndns.org** DDNS Provider Name
- **Service Port ; 80** Enter the port number
- **Username/Password ;** As customer defined on the web of DDNS service provider (not more than 32 characters)
- Click **Apply(5)**
- When done, the setting's information will show above
- You can use CCTV after DNS settings finished
- In case if you want to set more Port numbers click **New** To add additional port numbers

3BBHG8145V
Status WAN LAN IPv6 WLAN Security Route Forward Rules **Network Application** Voice System Tools Logout

USB Application
Home Sharing
Media Sharing
ALG Configuration
UPnP Configuration
ARP Configuration
Portal Configuration
DDNS Configuration
IGMP Configuration
Intelligent Channel Configuration
Terminal Limit Configuration
ARP Ping
DNS Configuration
ARP Aging
DSCP-to-Pbit Mapping

Network Application > DDNS Configuration

On this page, you can set DDNS parameters, including the service provider, server address, service port, host to be updated, user name, and password.
Note: The encryption mode of the user name and password may vary according to service providers. To ensure your information security, you are advised to specify a service provider with a higher security level. Available encryption modes with security protection levels from high to low are as follows: MD5, BASE64, and non-encryption.
When Protocol is GNUDip.http, Server Address is *.dynu.com, Salt Addressx needs to be set to /gnudip/cgi - bin/gdipupdt.Cgi.

WAN Name	Status	Service Provider	Host
---	---	---	---

DDNS Service Information:

WAN Name: 1_TR069_INTERNET_R_VID_33
Host: contact2nma.dyndns.org *(eg.abc.dyndns.co.za)
Service provider information:
Service Provider: dyndns
Server Address: members.dyndns.org *(1-255 characters)
Service Port: 80 *(1-65535)
User Name: contact2nma *(1-256 characters)
Password: (0-256 characters)
Encryption Mode: BASE64

Apply Cancel

8. Voice (Eth,IP Host) Settings

Set up through Port IP Host (TEL1,TEL2)

- Click **WAN(1)** --> Click **WAN Configuration(2)** --> **New(3)** to set the voice
The system will show the screen to fill in as follows
- **Encapsulation Mode(4)** ; Choose **IPoE**
- **WAN mode** ; Choose **Router WAN**
- **Service type** ; Choose **VOIP**
- **VLAN ID** ; **50**
- **IP acquisition mode(5)** ; Choose **DHCP**
- Click **Apply(6)**
- Voice settings finished, can be used at all

The screenshot shows the web interface for a 3BB HG8145V device. The top navigation bar includes 'Status', 'WAN', 'LAN', 'IPv6', 'WLAN', 'Security', 'Route', 'Forward Rules', 'Network Application', 'Voice', and 'System Tools'. The 'WAN' menu is highlighted with a red box and the number '1'. Below it, the 'WAN Configuration' page is shown, with a red box and the number '2' around the 'WAN Configuration' link. A yellow warning box states: 'On this page, you can configure WAN port parameters. A home gateway communicates with an upper-layer device through the WAN port. During the communication, WAN port parameters must be consistent with upper-layer device parameters.' Below the warning is a table of existing connections:

	Connection Name	VLAN/Priority	Protocol Type
<input type="checkbox"/>	1_TR069_INTERNET_R_VID_33	33/0	IPv4/IPv6
<input type="checkbox"/>	2_INTERNET_B_VID_33	33/0	IPv4/IPv6

A red box and the number '3' highlight the 'New' button. Below the table is the 'Basic Information' section, which is highlighted with a red box and the number '4'. The settings in this section are:

- Enable WAN:
- Encapsulation mode: IPoE PPPoE
- Protocol type: IPv4/IPv6
- WAN mode: Route WAN
- Service type: VOIP
- Enable VLAN:
- VLAN ID: 50 (range: *(1-4094))
- 802.1p: 0
- MTU: 1500 (range: (1-1540))
- IP acquisition mode: Static DHCP PPPoE (highlighted with a red box and the number '5')
- Vendor ID: (The vendor ID must be 0-63 characters in length.)

At the bottom, the 'Apply' button is highlighted with a red box and the number '6', along with a 'Cancel' button.

9. IPTV Settings

Internet connection setting to view IPTV(TV Online)

- Click **WAN(1)** --> Click **WAN Configuration(2)**

- Click **New(3)** to set IPTV

The system will show the screen to fill in as follows(4)

- **Enable WAN** ; Choose

- **Encapsulation Mode** ; Choose **IPoE**

- **Protocol Type** ; Choose **IPv4/IPv6** (Choose by device's capacity use for example IPv4,IPv6 or IPV4&IPV6)

- **WAN mode** ; Choose **Bridge WAN**

- **Service type** ; Choose **IPTV**

- **VLAN ID** ; **421**

- Click **Apply(5)**

- IPTV Setting finished can be used at all.

- In case if you want to set more Port numbers click **New** To add additional port numbers

3BB HG8145V
Broadband Status **WAN** LAN IPv6 WLAN Security Route Forward Rules Network Application Voice System Tools Logout

WAN Configuration 2 WAN > WAN Configuration

DHCP Client Option Configuration
DHCP Client Request Parameter

On this page, you can configure WAN port parameters. A home gateway communicates with an upper-layer device through the WAN port. During the communication, WAN port parameters must be consistent with upper-layer device parameters.

3 New Delete

	Connection Name	VLAN/Priority	Protocol Type
<input type="checkbox"/>	1_TR069_INTERNET_R_VID_33	33/0	IPv4/IPv6
<input type="checkbox"/>	2_INTERNET_B_VID_33	33/0	IPv4/IPv6
<input type="checkbox"/>	3_VOIP_R_VID_50	50/0	IPv4/IPv6

Basic Information 4

Enable WAN:

Encapsulation Mode: IPoE PPPoE

Protocol Type: IPv4/IPv6

WAN Mode: Bridge WAN

Service Type: IPTV

Enable VLAN:

VLAN ID: 421 *(1-4094)

802.1p Policy: Use the specified value

802.1p: 0

Binding Options: LAN1 LAN2 LAN3 LAN4
 SSID1 SSID2 SSID3 SSID4 SSID5 SSID6 SSID7 SSID8

IPv4 Information

Multicast VLAN ID: (0-4094; 0 indicates untagged VLAN.)

IPv6 Information

Multicast VLAN ID: (0-4094; 0 indicates untagged VLAN.)

5 Apply Cancel

10. Power Checkings

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

- Click **Status(1)** --> Click **Optical Information(2)**
- **ONT Information(3)** ; Check Received Power not more than -28 dBm
- Power checking finished

The screenshot shows the web interface of a 3BB HG8145V device. The top navigation bar includes 'Status' (1), 'WAN', 'LAN', 'IPv6', 'WLAN', 'Security', 'Route', 'Forward Rules', 'Network Application', 'Voice', and 'System Tools'. The left sidebar contains various system information sections, with 'Optical Information' (2) highlighted. The main content area displays 'Status > Optical Information' and a yellow instruction box. Below this, the 'ONT Information' table shows the following data:

	Current Value	Reference Value
Optical Signal Sending Status:	--	Auto
TX Optical Power:	-- dBm	0.5 to 5 dBm
RX Optical Power:	-- dBm	-27 to -8 dBm (3)
Working Voltage:	3330 mV	3100 to 3500 mV
Bias Current:	0 mA	0 to 90 mA
Working Temperature:	42 °C	-10 to +85 °C

Below the ONT table is the 'OLT Information' table:

	Current Value	Reference Value
Optical module type:	--	--
Transmit optical power:	-- dBm	--
PON port identifier:	--	--

11. Hardware Installations

Step 1 Use an optical fiber to connect the optical port on the ONT.

Note.

- The optical connector connected to the OPTICAL port is an SC/UPC connector.
- To ensure normal use of fibers, make sure that the fiber bend radius is larger than 30 mm.

Step 2 Use a network cable to connect the LAN port to an Access Point.

Step 3 Use a phone line to connect the TEL port to a phone or fax machine.

Step 4 Use a power adapter to connect the POWER port to the power socket.

Note.

- Do not use any power adapters that are not in the standard configuration. Otherwise, the device may be abnormal or unsafe.

Step 5 Use a USB data cable to connect the USB port to the USB storage device.

Step 6 Press the ON/OFF power switch.

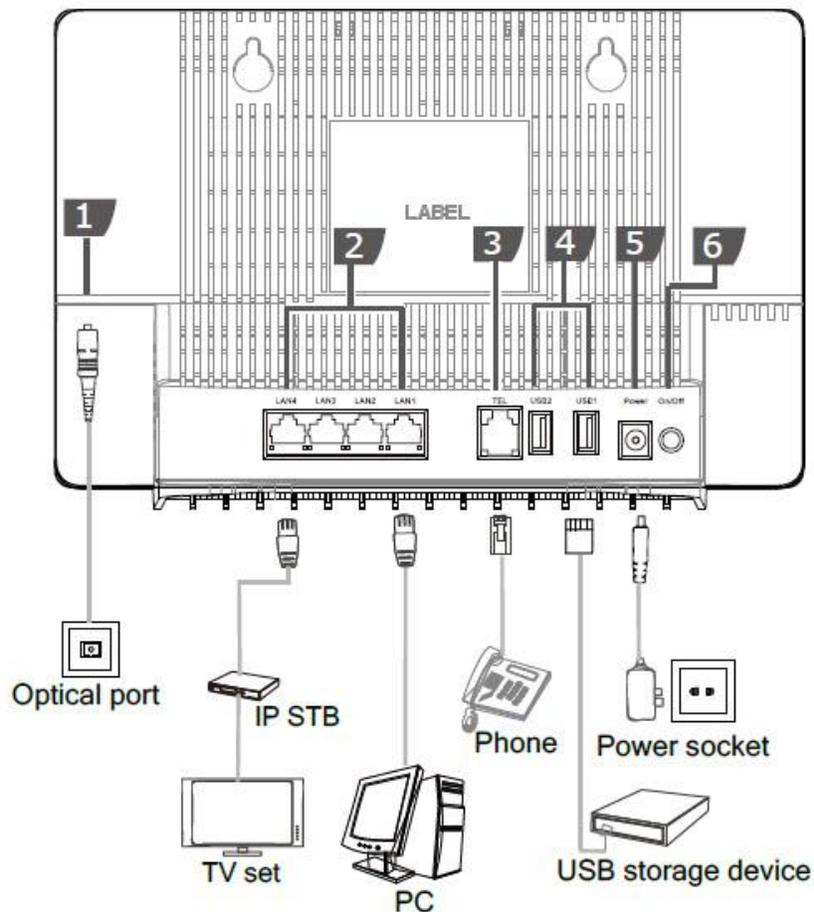
Step 7 Press the WLAN switch to enable the Wi-Fi access function. By default, this function is enabled.

Step 8 Press the WPS switch to enable the WPS encryption function.

Note.

- Before enabling the WPS encryption function of a GPON terminal, ensure that the function is set in the system software in advance. After successful setting, press the WPS switch for the settings to take effect.

The connections between the HG8145V and other devices are shown as follows.



The following table describes the interface of the device:

No.	Port/Button	Description
1	OPTICAL	The optical port is equipped with a rubber plug and is connected to an optical fiber for transmission.
2	LAN	Ethernet RJ-45 interface connecting to an Access Point.
3	TEL	Indicates VoIP telephone ports (RJ-11), used to connecting to the ports on telephone sets.
4	USB	USB host port, used to connect to USB storage devices.
5	Power	Interface connecting to the power adapter.
6	ON/OFF	Push to power on/off the device.
7	WLAN switch	The WLAN button, used to enable or disable the WLAN function. By default, this function is enabled.
8	WPS switch	The WPS button, used to enable or disable the Wi-Fi Protected Setup switch. Ensure that the function is set in the system software in advance. After successful setting, press the WPS switch for the settings to take effect.
9	Reset	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.

12. Technical Specifications

- Power adapter input: 100–240 V AC, 50–60 Hz
- System power supply: See the nameplate on the device.
- Ambient temperature: 0°C to +40°C
- Ambient humidity: 5%–95% (non-condensing)
- GPON Terminal : HG8145V
- Weight (Including the Power Adapter) : About 1500 g
- Maximum System Power Consumption : ≤ 18.5 W

13. Product Overview

Product	Function
HG8145V	- 4 Gigabit Ethernet ports
	- 1 POTS port
	- 2 USB ports
	- 2.4G(2*2MIMO)+5G(2*2MIMO)

14. Packing List

The following table lists the items in the product package.

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

Note. If you find anything missing or damaged, contact the service provider.