

BTPT ONU Configuration Guide

This guidance document is applicable to BT-BCM6838E/BT-BCM6838E+, BT-BCM6838G/BT-BCM6838G+, BT-601GB and BT-601GB models ONU equipment of BTPT.

1 Web Login

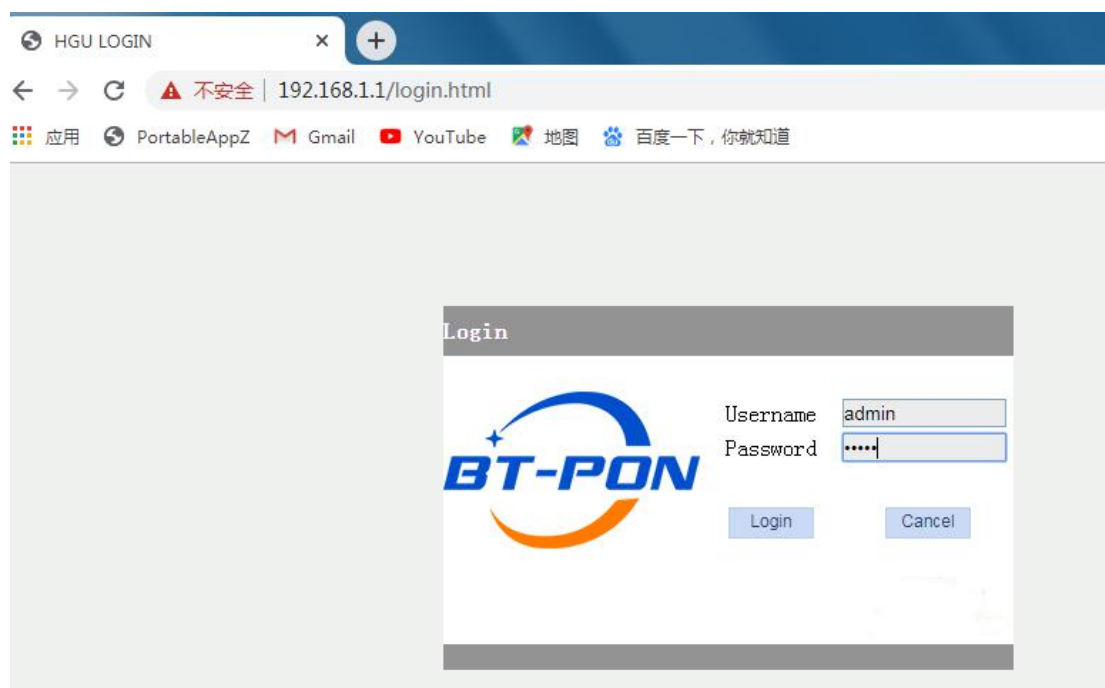
Login URL: <http://192.168.1.1>

GPON ONU Supper user login account: **admin**; password: **admin**

EPON ONU Supper user login account: **admin**; password: **v2mprt**

Normal user login account: **useradmin** ; password: **admin**

After entering the username and password correctly, click Login button to enter the web management interface.



2 WAN Connection Create

Create multiple WAN connections (PPPOE, TR069 (DHCP), VOIP (DHCP), IPTV):

2.1 Create PPPOE WAN connection configuration

Enter the NETWORK---->WAN SET Connection interface, configure the relevant information, and click the Create button.

Name: select Add new WAN

Mode:select Route

IP Version: select IPv4

Type : select PPPoE

Service List : selects INTERNET or TR069_INTERNET or TR069_VOIP_INTERNET

VLANID: INTERNET service vlan;

The screenshot shows the BT-PON Network configuration page. The 'WAN SET' tab is selected. The configuration includes:

- DevMode: GPON
- Name: Add new WAN
- Mode: Route
- IP Version: IPv4
- Connection type: PPPoE (selected)
- Options: Disable PPPoE agent or PPPoE route bridge hybrid model; Enable PPPoE proxy; PPPoE hybrid model of route and bridge.
- MTU: 1400
- NAT:
- Enable Vlan:
- Vlan: 1000
- Priority: 0

The screenshot shows the BT-PON Network configuration page for a new WAN connection. The 'WAN SET' tab is selected. The configuration includes:

- Vlan: 1000
- Priority: 0
- Name: test
- Password: ****
- Service name: test
- Dial mode: Automatic connection
- Service mode: INTERNET
- Bind port: LAN1, LAN2, LAN3, LAN4, SSID1, SSID2, SSID3, SSID4
- Buttons: Save/Apply, Delete

2.2 Create TR069 WAN connection

Create a tr069 (DHCP) WAN connection configuration:

Name: select Add new WAN

Mode:select Route

IP Version: select IPv4

Type : select DHCP

Service List : selects TR069 or TR069_INTERNET or TR069_VOIP or TR069_VOIP_INTERNET

VLANID: tr069 service vlan;

The screenshot displays the 'WAN SET' configuration page within a network management system. The interface has a purple header with tabs for 'NETWORK', 'APPLICATION', 'SECURITY', 'MANAGEMENT', 'DIAGNOSIS', and 'HELP'. Under the 'NETWORK' tab, there are sub-tabs for 'WAN SET', 'LAN SET', 'WLAN SET', 'TR069 SET', 'QOS SET', 'NTP SET', and 'ROUTE SET'. The 'WAN SET' sub-tab is active, showing a configuration form for a WAN connection. The form includes the following fields and options:

- DevMode: GPON (dropdown)
- Name: Add new WAN (dropdown)
- Mode: Route (dropdown)
- IP Version: IPv4 (dropdown)
- Type: DHCP (selected radio button) with the description 'Get a Ip address from ISP'. Other options are 'Static' (Config a static Ip address by ISP) and 'PPPoE' (Please select this item if ISP use PPPoE).
- MTU: 1400 (text input)
- Enable Vlan: checked (checkbox)
- Vlan: 1000 (text input)
- Priority: 0 (dropdown)
- Service mode: TR069 (dropdown)

At the bottom of the form, there are two buttons: 'Save/Apply' and 'Delete'.

2.3 Create VOIP WAN Connection

Create a VOIP WAN connection configuration:

Type: Select DHCP

Service List: selects VOIP or VOIP_INTERNET

VLAN ID: Voice Service VLAN ID

The screenshot shows the 'WAN SET' configuration page in a network management interface. The 'Mode' is set to 'Route', 'IP Version' is 'IPv4', and 'Service mode' is 'VOIP'. Other settings include 'DevMode: GPON', 'Name: Add new WAN', 'MTU: 1400', 'Enable Vlan: checked', 'Vlan: 1000', and 'Priority: 0'. There are 'Save/Apply' and 'Delete' buttons at the bottom.

2.4 Create IPTV WAN Connection

Create a IPTV WAN connection configuration:

Type: Select Bridge

Service List : selection Other

Port Binding: Bind the specified LAN port

VLANID: Multicast vlanID

The screenshot shows the 'WAN SET' configuration page with 'Mode' set to 'Bridge' and 'Service mode' set to 'OTHER'. 'IP Version' is 'IPv4', 'MTU' is '1500', 'Enable Vlan' is checked, and 'Vlan' is '1000'. Under 'Bind port', 'LAN1' is selected. A note at the bottom states: 'Note: a port can not be bound with multiple WAN connection, if bound ,Only the last Wan connection will bound with the port and other wan connection before'.

3 Remote management configuration(TR069)

Remote management configuration prerequisite: WAN connection with tr069 service must

exist;

TR069 configuration: Network—>TR069 SET---->TR069

Username:tr069 Password:tr069

Fill in the correct ITMS server address, username, password and other information (login and password are configured on the ITMS platform server)

Click the Submit button

The screenshot shows the 'TR069 Client-Configuration' page. The navigation menu includes 'NETWORK', 'APPLICATION', 'SECURITY', 'MANAGEMENT', 'DIAGNOSIS', and 'HELP'. Under 'NETWORK', there are sub-menus for 'WAN SET', 'LAN SET', 'WLAN SET', 'TR069 SET', 'QOS SET', 'NTP SET', and 'ROUTE SET'. The 'TR069 SET' menu is selected. The page title is 'TR-069 Client-Configuration'. Below the title, there is a description of the WAN Management Protocol (TR-069) and a note to click 'Apply/Save' to save settings. A red box highlights the configuration fields: 'Notice' (Disable/Enable), 'Safety Links' (Load Certification), 'Notification Interval' (43200), 'ACS URL' (http://devacs.edatahome.com), 'ACS Username' (hgw), 'ACS password' (***), 'Connection Request Authentication' (checked), 'Authentication ID' (itms), 'Authentication Password' (****), 'China Telecom Middleware Mode' (Disable Middleware selected), 'Middleware Server URL' (0.0.0.0), and 'Middleware Server Port' (0). A 'Save/Apply' button is at the bottom.

4 IPTV Configuration

Multicast configuration: Application---->Daily SET---->IPTV;

First find the Modify column, click the modify button for the IPTV WAN connection;

Public multicast VLAN: Set the multicast vlan;

The screenshot shows the 'IPTV Services' configuration page. The navigation menu includes 'APPLICATION', 'NETWORK', 'APPLICATION', 'SECURITY', 'MANAGEMENT', 'DIAGNOSIS', and 'HELP'. Under 'APPLICATION', there are sub-menus for 'DDNS SET', 'NAT SET', 'UPNP SET', 'VOIP SET', 'IGMP SET', 'MLD SET', and 'DAILY SET'. The 'DAILY SET' menu is selected. The page title is 'IPTV Services'. Below the title, there is a note to click the button below to enable or disable the IPTV service. A red box highlights the 'Enable IPTV' checkbox, which is checked. Below that, there is a section for 'Public Multicast VLAN'. A note explains that you can configure Public Multicast VLAN on this page and to click 'Save/Apply' to activate the function. Another note says to enter '-1' in the Public Multicast VLAN blank to disable the function. The 'Connection name' dropdown is set to '1_OTHER_B_VID_1000'. The 'Public Multicast VLAN' text input field contains '1000'. A 'Save/Apply' button is at the bottom.

5 VOIP Configuration

5.1 Config SIP Server

VOIP configuration: Application—>Voip SET—>SIP BASIC:

SIP local port:

Select enable primary sip registration :Write the correct SIP server address and port

Sip Account: select first;

User Number :Voice number

Authentication User name: Authentication username number

Authentication Password: Voice Authentication Password;

APPLICATION STATUS NETWORK **APPLICATION** SECURITY MANAGEMENT DIAGNOSIS HELP

DDNS SET NAT SET UPNP SET **VOIP SET** IGMP SET MLD SET DAILY SET

SIP BASIC Voice -- SIP Basic Configure

Please input SIP parameter, then click "apply" to save.

Voice binding interface name: LAN

Country: China

SIP local port [range: 0-65535]: 5060

enable primary SIP proxy

enable primary SIP external proxy

enable primary SIP registration

IP Address: 192.168.100.123

Port: 5060

enable second SIP proxy

enable second SIP external proxy

enable second SIP registration

SIP Account	enable account	User Number	authentication user name	authentication password
1	<input checked="" type="checkbox"/>	1111	1111	****
2	<input type="checkbox"/>			

6 LAN interface configuration

6.1 LAN IP Setting

LAN interface modification LAN_IP address configuration: Network—>LAN SET—>DHCPv4 SET

IP Address: LAN_IP address (can be modified)

Click the Submit button, the device will restart automatically, and it will take effect after restarting.

NETWORK STATUS **NETWORK** APPLICATION SECURITY MANAGEMENT DIAGNOSIS HELP

WAN SET **LAN SET** WLAN SET TR069 SET QOS SET NTP SET ROUTE SET

DHCPv4 SET

IPv4 LAN Settings

You can configure the ONU's IP address and Subnet Mask for your LAN application on this page. Click "Save/Apply" button to save and apply new settings..

IP Address: 192.168.1.1
Subnet mask: 255.255.255.0

Disable circulation control
 Enable circulation control
 Disable DHCP Server
 Enable DHCP Server

PC Beginning IP address: 192.168.1.2
 PC Ending IP address: 192.168.1.100
 IP Camera Beginning IP address: 192.168.1.110
 IP Camera Ending IP address: 192.168.1.120
 IPTV Box Beginning IP address: 192.168.1.130
 IPTV Box Ending IP address: 192.168.1.150
 IP Phone Beginning IP address: 192.168.1.170
 IP Phone Ending IP address: 192.168.1.180
 Duration: 1 day

Enable DHCP Server relay

6.2 Modify LAN IP Address Pool

Modify LAN IP address pool configuration: Network—>LAN SET—>DHCPv4 SET:

Click the Modify button after the list of IP address pools corresponding to the device properties.

Beginning IP Address: Start Address

Ending IP Address: End Address

Click the save button

NETWORK STATUS **NETWORK** APPLICATION SECURITY MANAGEMENT DIAGNOSIS HELP

WAN SET **LAN SET** WLAN SET TR069 SET QOS SET NTP SET ROUTE SET

DHCPv4 SET

The page is timeout, Please click button [relogin](#) or [hide the message!](#) [Relogin](#) [Hide](#)

IPv4 LAN Settings

You can configure the ONU's IP address and Subnet Mask for your LAN application on this page. Click "Save/Apply" button to save and apply new settings..

IP Address: 192.168.1.1
Subnet mask: 255.255.255.0

Disable circulation control
 Enable circulation control
 Disable DHCP Server
 Enable DHCP Server

PC Beginning IP address: 192.168.1.2
 PC Ending IP address: 192.168.1.100
 IP Camera Beginning IP address: 192.168.1.110
 IP Camera Ending IP address: 192.168.1.120
 IPTV Box Beginning IP address: 192.168.1.130
 IPTV Box Ending IP address: 192.168.1.150
 IP Phone Beginning IP address: 192.168.1.170
 IP Phone Ending IP address: 192.168.1.180
 Duration: 1 day

Enable DHCP Server relay

[Save/Apply](#)

7 WIFI Configuration

7.1 WIFI SSID Configuration

Modify WIFI SSID Configuration: Network—>WLAN SET—> WLAN SET:

NETWORK STATUS **NETWORK** APPLICATION SECURITY MANAGEMENT DIAGNOSIS HELP

WAN SET LAN SET **WLAN SET** TR069 SET QOS SET NTP SET ROUTE SET

WLAN SET

Wireless Config

This page allows you to configure all features of the wireless LAN interface. You can enable or disable the wireless LAN interface, hide the network from active scans, set the wireless network name (also known as SSID) and restrict the channel set based on country requirements. Click "Save/Apply" button to save and apply new settings

BTPT-test2

Enable Wireless

Hide Access Point

Clients Isolation

Disable WMM Advertise

Enable Wireless Multicast Forwarding(WMF)

SSID: BTPT-test2

BSSID: 78:30:3b:08:08:19

BAND: 2.4GHz

Channel: Auto Current Channel:2

802.11n/EWC: Automatic

Bandwidth: 40MHz in Both Bands Current Bandwidth:40 Mbps

Control Sideband: Down Current Control Sideband:lower

802.11n Rate: Auto

7.2 WIFI Security Configuration

Modify WIFI password and encryption mode configuration: Network—>WLAN SET—>WLAN SET—>Advance button.

Disable WMM Advertise

Enable Wireless Multicast Forwarding(WMF)

SSID: BTPT-test2

BSSID: 78:30:3b:08:08:19

BAND: 2.4GHz

Channel: Auto Current Channel:2

802.11n/EWC: Automatic

Bandwidth: 40MHz in Both Bands Current Bandwidth:40 Mbps

Control Sideband: Down Current Control Sideband:lower

802.11n Rate: Auto

802.11n Protection: Auto

Support 802.11n Client Only: Off

54g™Rate: 54 Mbps

Multicast Rate: Auto

Basic Rate: Default

XPress™Technology: Disable

Transmit Power: 100%

WMM(Wi-Fi Multimedia): Disable

WMM Service quality: Disable

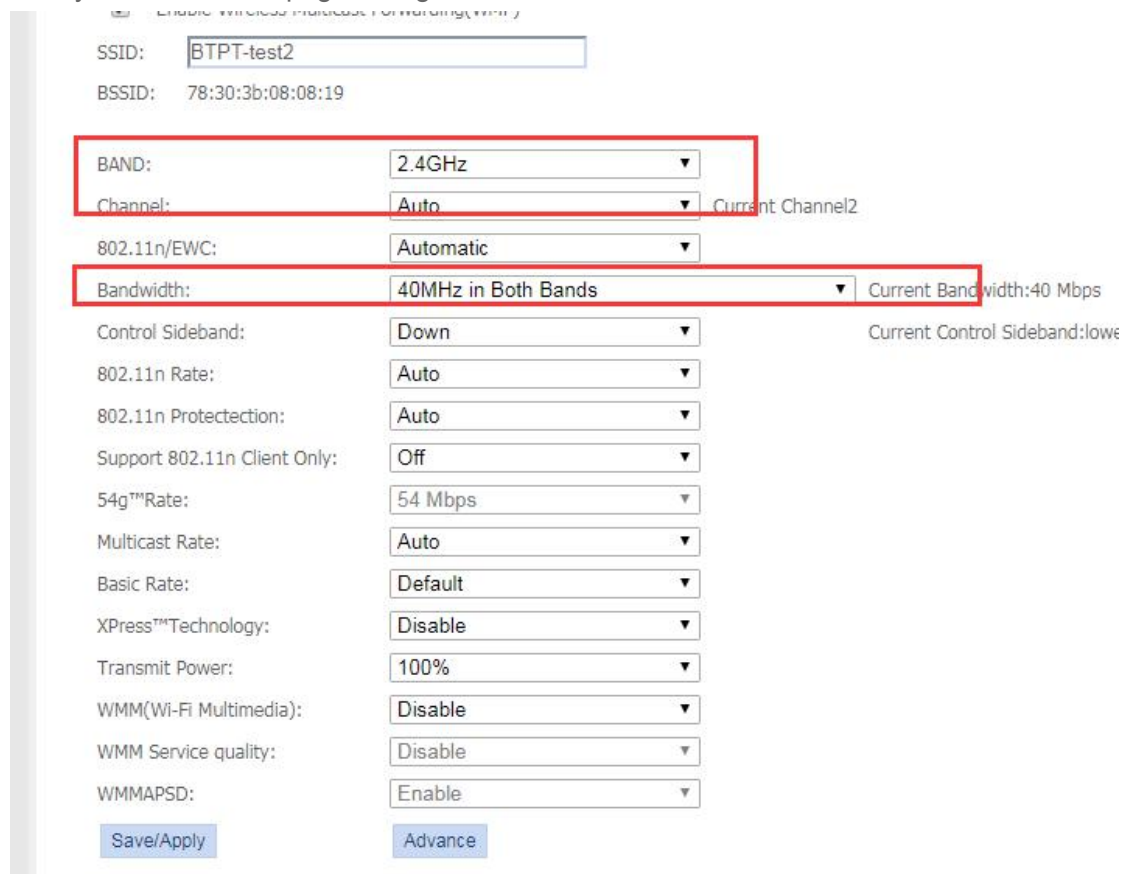
WMMAPSD: Enable

Save/Apply Advance



7.3 WIFI Basic Configuration

Modify the WIFI Basic page configuration: Network—>WLAN SET—> WLAN SET



8 SoftWare Upgrade

8.1 WEB page upgrade guide

WEB page upgrade configuration: Mangement—>DEVICE—> FW UPGRADE

click the “Browse” button, select the suffix name .bin upgrade file, and then click the Upgrade button. Wait 3-4 minutes, the device will restart automatically after the upgrade is completed.

MANAGEMENT STATUS NETWORK APPLICATION SECURITY **MANAGEMENT** DIAGNOSIS HELP

USER PWD **DEVICE** LOG MAINTENANCE

DEVICE REBOOT
 USB BACKUP
 RESTORE CONFIG
FW UPGRADE
 BACKUP CONFIG

Tools -- Update Software

Step 1: Obtain an updated software image file from your ISP.

Step 2: Enter the path to the image file location in the box below or click the "Browse" button to locate the image file.

Step 3: Click the "Update Software" button once to upload the new image file.

NOTE: The update process takes about 2 minutes to complete, and your Broadband Router will reboot.

Software File Name:

9 Optical power information inquiry

View Optical Power: Status—>WAN INFO—> GPON INFO interface

Can view TX, RX information

STATUS STATUS NETWORK APPLICATION SECURITY MANAGEMENT DIAGNOSIS HELP

DEVICE INFO **WAN INFO** LAN INFO VOIP INFO

IPV4 INFO
 IPV6 INFO
GPON INFO

Base Info

GPON Link Status:	O1 INITIAL
Authentication Status:	Initial state

Advanced Info

GPON Info

Upstream FEC:	Disable
Downstream FEC:	Disable
Encryption mode:	Disable

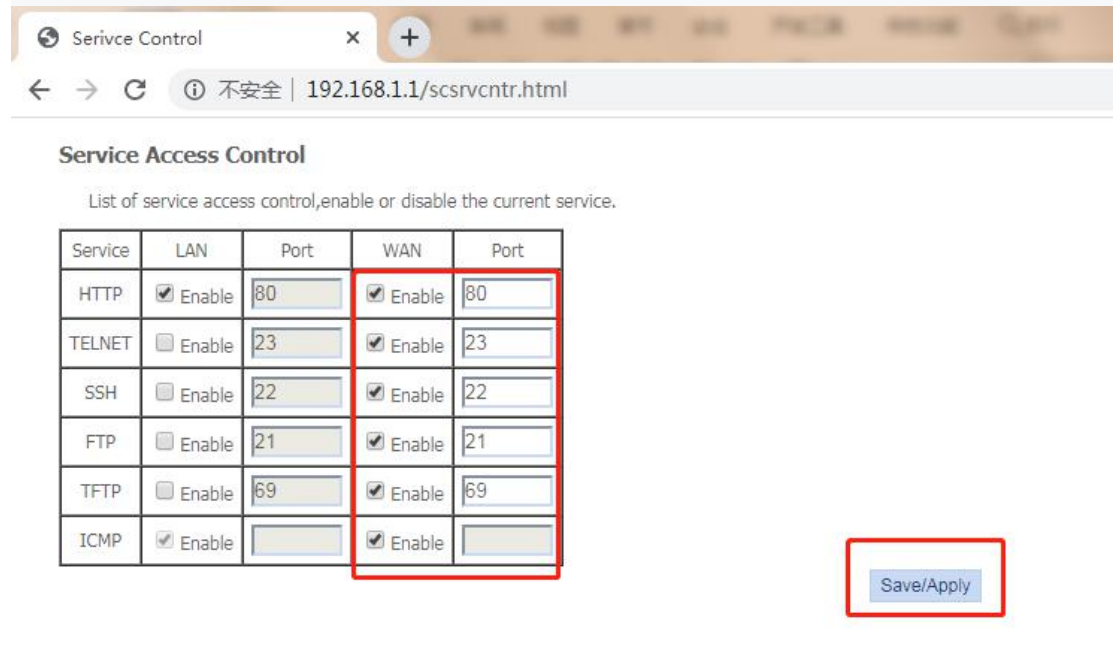
Optical module Info

Temperature(1/256 C):	11977(46.79C)
Voltage(100uV):	32983(3.30V)
Current(2uA):	4992(9.98mA)
Transmitting optical power(0.1uW):	1(-40.00dbm)
Receiving Optical Power(0.1uW):	1(-40.00dbm)

The package of receive and transmit

10. Open the remote access ONU management port

- 1) .Access 192.168.1.1 and login ONU administration page (GPON: Admin/Admin,EPON: Admin/V2MPRT) with super admin account and password
- 2) the browser input url: 192.168.1.1/scsrvcntr.html, enable all ports of wan , click on the save button.



Service Access Control

List of service access control,enable or disable the current service.

Service	LAN	Port	WAN	Port
HTTP	<input checked="" type="checkbox"/> Enable	80	<input checked="" type="checkbox"/> Enable	80
TELNET	<input type="checkbox"/> Enable	23	<input checked="" type="checkbox"/> Enable	23
SSH	<input type="checkbox"/> Enable	22	<input checked="" type="checkbox"/> Enable	22
FTP	<input type="checkbox"/> Enable	21	<input checked="" type="checkbox"/> Enable	21
TFTP	<input type="checkbox"/> Enable	69	<input checked="" type="checkbox"/> Enable	69
ICMP	<input checked="" type="checkbox"/> Enable		<input checked="" type="checkbox"/> Enable	