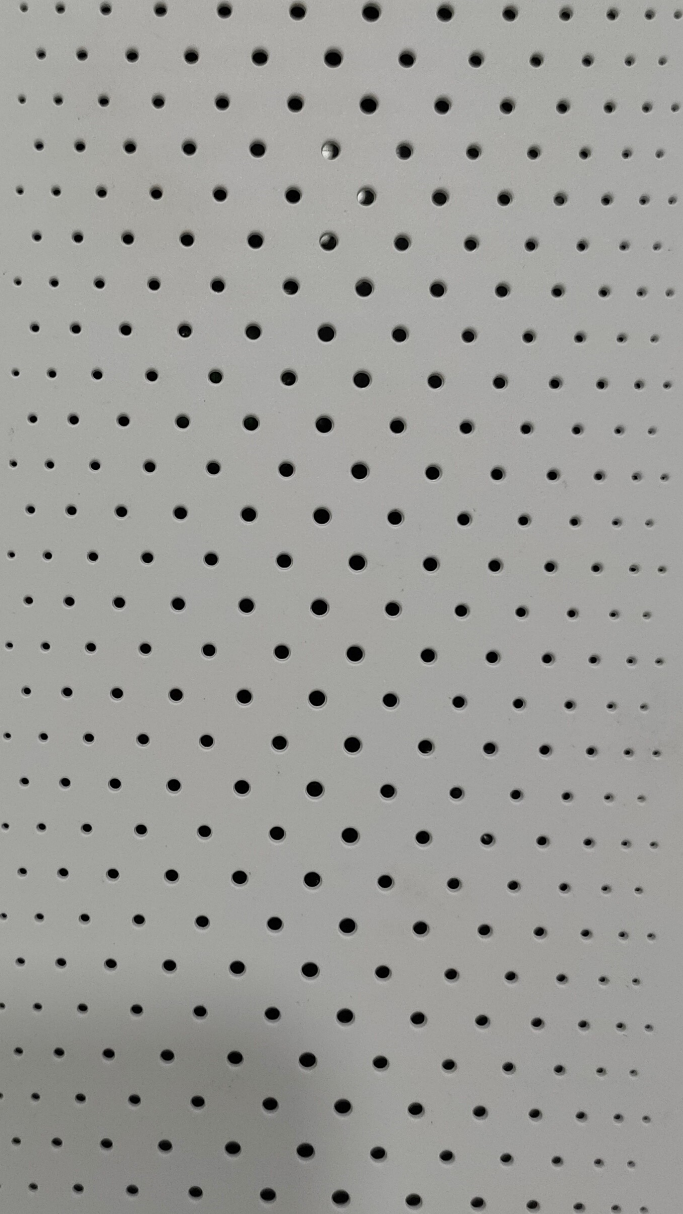


 **BSNL**
BROADBAND

ONT4842W-I

POWER LOS PON LAN1 LAN2 LAN3 LAN4 FXS1 FXS2 USB WLAN WPS





ONT4842W-I GPON HGU

QUICK MANUAL

1.2 Application Chart

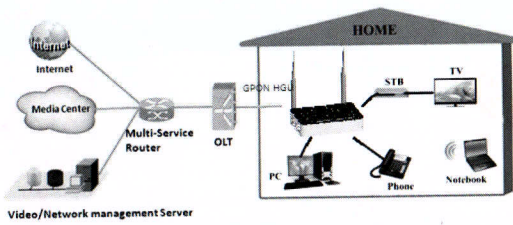


Figure 2: Application Chart

1.3 Technical parameters

Technical Items	Descriptions
PON interface	1GPON connector, SC single-mode/single-fiber, Downstream rate 2.5 Gbps, Upstream rate 1.25 Gbps
Wavelength	Tx1310nm,Rx 1490nm
Optical interface	SC connector
Interface	4* 10/100/1000Mbps auto adaptive Ethernet interfaces. 10/100M Full /Half Duplex, 1000M Full Duplex. RJ45 connectors. 2* POTS, RJ11 connectors 1*USB 2.0 Port
Wireless	Compliant with IEEE802.11b/g/n, 300Mbps, 2T2R two external antennas.
LED	12, For Status of POWER, LOS,PON, LAN1-4,FXS1-2,USB,WIFI,and WPS.
Operating condition	-5℃~55℃, 10%~90% (non-condensed)
Storing condition	-30℃~60℃, 10%~90% (non-condensed)
Power supply	DC 12V,1.5A
Power consumption	≤10W
Dimension	175mm×145.5mm×36.5mm (L×W×H)

1.4 Equipment List

Contents	Quantity	Contents	Quantity
HGU	1 pcs	Power Adapter	1 pcs
User Manual	1 pcs	Network Cable	1 pcs
Certification	1 pcs	Fiber	1 pcs

Figure 4: Equipment list

Chapter 2 Quick Installation

2.1 Installation Requirements

Installation Environment Requirements

HGU equipment must be installed in the interior, and to ensure the following conditions:

- Confirmation at the HGU installation at sufficient space to facilitate cooling machine.
- HGU suitable operating temperature of -5°C - 55°C, humidity 10% - 90%.
- Device workspace should avoid radio transmitters, radar stations, and high-frequency interference from power equipment.

Equipment Installation

- Installing the HGU on a horizontal surface (Bench top)

Put the HGU on a clean, flat, sturdy bench top. You must keep the clearance for all sides of the unit to more than 10cm for heat dissipation.

- Installing the HGU on a vertical surface (Hanging on a wall)

You can install the HGU on a vertical surface by using the mounting holes on the bottom of the ONU chassis (refer to Figure 1-5) and two flat-head wood screws.

- a) Insert the screws into the wall. The screw positions must be in the same horizontal line and the distance between them must be 165mm. Reserved at least 6mm between the screw caps and the wall.
- b) Hang the HGU on the screws through the mounting holes.

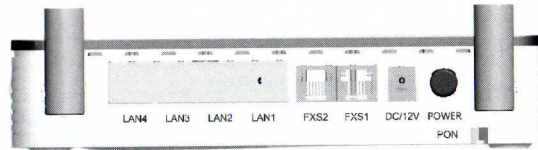
2.2 Panel

POWER LOS PON LAN1 LAN2 LAN3 LAN4 FXS1 FXS2 USB WLAN1 WPS

Name	Status	Function
POWER	OFF	Power is not supplied.
	ON	Power is supplied.
LOS	OFF	Rx optical power is normal.
	Flash	Rx optical power is lower than the sensitivity of the optical

PON	OFF	Device is not registered to GPON OLT.
	ON	Device has been registered to GPON OLT.
	Flash	Device registered incorrect.
LAN1-4	OFF	Device is power off or Ethernet link is not established.
	ON	Ethernet link is established but without ongoing data transmission.
	Flash	The port is ongoing data transmission.
FXS 1-2	OFF	Device is power off or not registered to the soft-switch.
	ON	Device has registered to the soft-switch.
	Flash	The port is working.
USB	OFF	Device is power off or USB device is not connected.
	ON	USB device is connected, but without ongoing data
	Flash	USB is with ongoing data transmission.
WLAN	OFF	Device is power off or WiFi is turned off.
	ON	WiFi is turned on.
	Flash	WiFi is turned on and with ongoing data transmission.
WPS	OFF	Does not use WPS or WPS client is connected (LED turn off after 5 minutes of successful connection).
	ON	WPS client is connected. (LED turn off after 5 minutes of successful connection)
	Flash	WPS client is connecting.

Figure 5: Panel Lights



Name	Function
PON	Connect PON port with internet by SC type, single mode optical fiber cable.
FXS 1-2	Connect the telephone with FXS port by telephone wire. If you only have one telephone, you should use FXS1 port.
LAN1-4	Connect PC with GPON HGU Ethernet port by RJ-45 Cat5 cable.
LED	Press down LED pair button for LED ON/OFF.
WPS	Press down Wi-Fi pair button for WPS function.
WiFi	Press down Wi-Fi turn on/off to enable/disable Wi-Fi function.
RESET	Press down reset button to make the device restart and recover from the factory default settings.
USB	External USB port, used to connect to USB storage device.
DC12V	Connect with power adapter.
POWER	Power turn on/off.

Figure 6: Back Panel

Chapter 3 Web Management

GPON HGU provides web management function.

3.1 Default Configuration

The following is the default configuration of GPON HGU.

- LAN port management IP address: **192.168.1.1/24**.
- Local (LAN access) Username: **user**, Password: **user**.

3.2 Basic Configuration

Web login default username: **user**, password: **user**

The screenshot shows a web login interface with the following elements:

- Title: Login
- Username field: Contains the text "user".
- Password field: Contains four asterisks "****".
- Buttons: "Login" and "Reset".

Figure 7: Web Login

WAN info display the status of all WAN connections and the network information.

The screenshot shows the WAN Status page with the following data:

WAN	Interface	WAN ID	Protocol	SNMP	Status	IP Address	Default Route
WAN1	eth0	1	PPPOE	Enabled	Up	192.168.1.1	Enabled
WAN2	eth1	2	PPPOE	Enabled	Up	192.168.1.1	Enabled

Below the table, there are sections for DNS and DHCP settings:

- DNS:** Primary DNS Server: 192.168.1.1, Secondary DNS Server: 192.168.1.1
- DHCP:** DHCP Server: 192.168.1.1

Figure 8: Status

This page allows you to make some LAN settings, such as LAN IP setting, DHCP server setting.

Note: DHCP server changes take effect after the device is restarted.

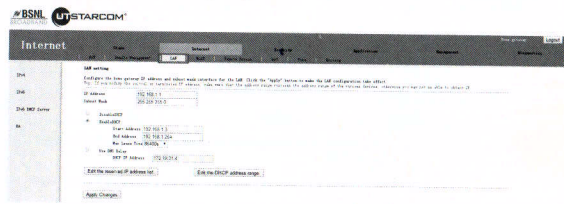


Figure 9: LAN Setting

This page allows you to configure wireless basic settings.

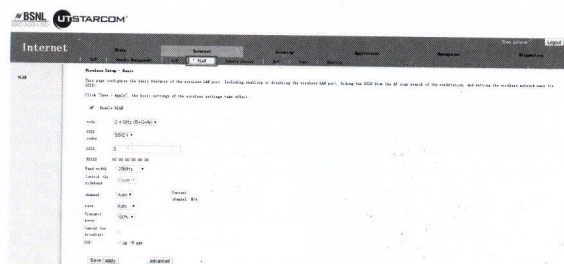


Figure 10: WLAN Setting

Click advanced, which is used to configure wireless security.

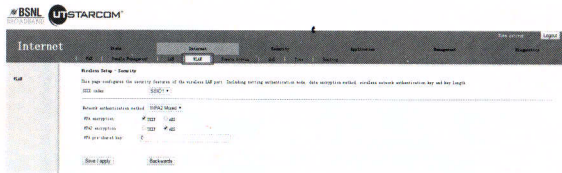


Figure 11: Security

This page allows you to change username or password.

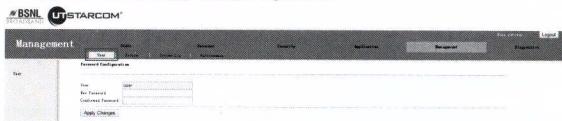


Figure 12: User Manage

Chapter 4 Trouble Shooting

1. Q: All indicators are not lit?
A: (1) Power is off or power adapter is bad.
(2) Indicator LED switch is turned off.
2. Q: Why Los indicator flashes?
A: (1) There is no optical signal. Maybe the fiber is broke down or connection loosened.
(2) Optical power is too low.
(3) The fiber is dusty.
3. Q: LAN indicators are not lit?
A: (1) Indicator LED switch is turned off.
(2) The cable breaks down or connection loosened.
(3) The cable type incorrect or too long.
4. Q: FXS indicators are not lit?
A: (1) Indicator LED switch is turned off.
(2) SIP accounts aren't registered.
5. Q: PC can't visit web UI?
A: (1) PC and HGU are not in the same network fragment. By default, LAN IP is 192.168.1.1/24.
(2) The cable breaks down.
(3) IP conflict or have loopback.
6. Q: User can't surf the Internet normally.
A: (1) PC has set a wrong IP and gateway or network is bad.
(2) There is loopback or attack in network.
(3) Route mode WAN connection doesn't get an IP or DNS is disabled.
7. Q: Customer can't use the VoIP service.
A: (1) The phone or the wire is damaged.
(2) SIP accounts aren't registered.
(3) Dial plan is wrong.
8. Q: HGU stops to work after working for some time.
A: (1) Power supply is not working properly.
(2) The device overheats.