User Manual

TONU-1000 GE ONU

Article				Article no.
TONU-1000	GE ONU			308700
Version	V1.0	**Date**	2025/08	**EN**

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Table of content

1 Safety Instructions

Read these instructions carefully before connecting the unit

ATTENTION

- Failure to comply with the specified precautionary measures may cause serious injury to persons or damage to property.
- The assembly, installation, additional electrical wiring, servicing and commissioning may only be performed by suitably qualified persons, technicians or installers in compliance with safety regulations.
- Damage due to improper installation and commissioning, defective connectors on cables, or any other incorrect handling will void the warranty.

CAUTION

- The safety requirements are according to the standards EN 62368-1 respectively EN 60728-11 and must be observed, especially concerning equipotential bonding and earthing.
- Observe the relevant country-specific standards, regulations and guidelines on the installation and operation of antenna systems.
- Before starting installation or service work disconnect the receiving system from the power supply.
- Installation or service work should NEVER be undertaken during electrical / thunderstorms.
- Avoid short circuits!
- To ensure electromagnetic compatibility, make sure all connections are tight and that the covers are screwed on securely.
- Take action to prevent static discharge when working on the device!
- Due to the risk of fires caused by lightning strikes, we recommend that all mechanical parts (e.g. distributor, equipotential bonding rail, etc.) be mounted on a non-combustible base. Wood panelling, wooden beams, plastic covered panels and plastic panels are all examples of combustible bases.

⚠ To prevent fire, short circuit or shock hazard:

- Do not expose the unit to rain or moisture.
- Install the unit in a dry location without infiltration or condensation of water.
- Do not expose it to dripping or splashing.
- Do not place objects filled with liquids, such as vases, on the apparatus.
- If any liquid should accidentally fall into the cabinet, disconnect the power plug.

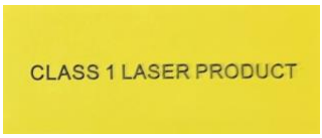
⚠ To avoid any risk of overheating:

- Install the unit in a well aired location and keep a minimum distance of 5 cm around the apparatus for sufficient ventilation.
- Do not place any items such as newspapers, tablecloths, curtains, on the unit that might cover the ventilation holes.
- Do not place any naked flame sources, such as lit candles, on the apparatus.
- Do not install the product in a dusty place.
- Use the apparatus only in moderate climates (not in tropical climates).
- Respect the minimum and maximum temperature specifications.

⚠ To avoid any risk of electrical shocks:

- Connect apparatus only to a power socket with a protective earth connection.
- The mains plug shall remain readily operable.
- Pull out power plug to make the different connections of cables.
- To avoid electric shock, do not open the housing of the product.

⚠ Warning



To avoid exposure to laser radiation from optical fibre or active optical devices like transmitters or receivers which pose a hazard to your health, you should:

- Never look into an exposed end of an optical fibre or mirror surfaces that could reflect light from an open optical fibre.
- Never look into an optical fibre connected with the radiation source with optical instruments (magnifying glass, microscope, etc...).
- Use an approved fibre optic cable to maintain conformity with applicable laser safety requirements.

Concerning fibre optic cables:

- Wearing protective goggles is recommended.
- You should handle fibre optic cables with extreme caution, particularly when unbundling or terminating a cable. The internal glass core of a fibre optic cable is brittle when the shielding and buffer material is removed. It will easily disintegrate into small pieces which may cause injury to the human body.
- Remove all filings immediately using tweezers, place them in a tightly sealed dustbin and dispose in accordance with local regulations.

Maintenance

⚠ Only use a dry soft cloth to clean the cabinet.

⚠ Do not use solvent.

⚠ For repairing and servicing, refer to qualified personnel.

Dispose according to your local authority's recycling processes

Electronic devices should never be disposed of in the household rubbish. In accordance with directive 2002/96/EC of the European Parliament and the European Council from January 27, 2003 which addresses old electronic and electrical devices, such devices must be disposed of at a designated collection facility. At the end of its service life, please take your device to one of these public collection facilities for proper disposal.

2 Introduction

2.1 Product description

The TONU-1000 (XPON 1GE ONU) is specially designed to meet the needs of telecom operators for FTTO (office), FTTD (desktop), FTTH (home), SOHO broadband access, video surveillance, etc. The ONU is based on high-performance chip technology solutions, and supports Layer 2/Layer 3 functions, providing data services for carrier-grade FTTH applications.

The ONT has high reliability and can be applied to a wide temperature environment; and has a powerful firewall function, which is easy to manage and maintain. It can provide QoS guarantee for different services. The ONT complies with international technical standards such as IEEE802.3ah and ITU-T G.984.

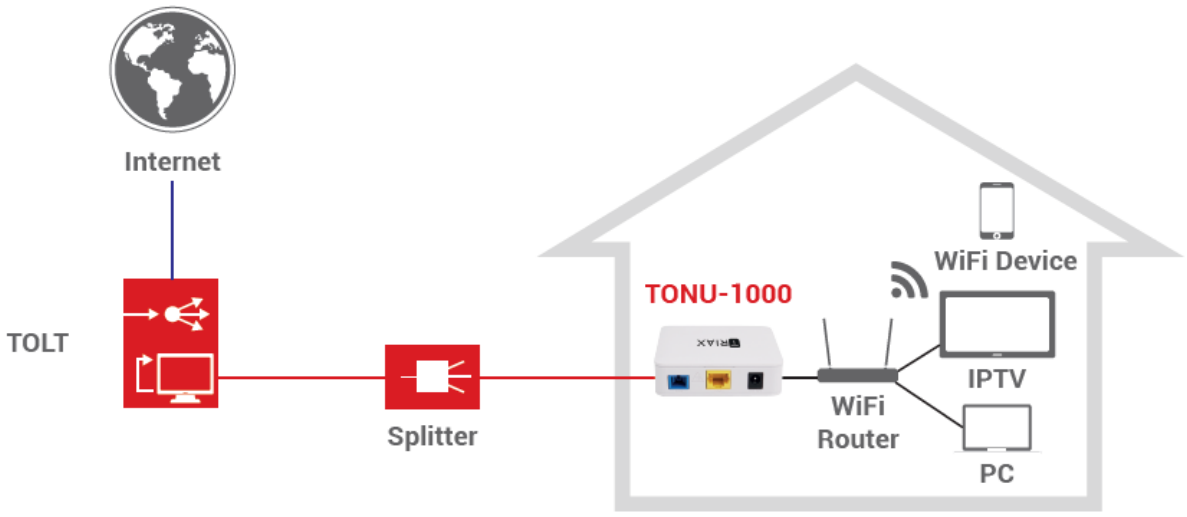
2.2 Detailed features

- Integrated auto detecting, auto configuration and auto firmware upgrade technology
- Supports remote configuration and maintenance
- Supports rich VLAN, DHCP server and IGMP snooping multicast feature
- Supports NAT, firewall function
- Supports bridge and router mode
- XPON Dual Mode, automatically access to EPON/GPON
- Detecting rogue ONU
- Powerful firewall
- Wide working temperature: -25°C ~+55°C

2.3 Ordering information

Product Name	Article No.	Product Description	Accessories
TONU-1000	308700	1*GE	AC-DC power adapter, DC12V/0.5A

2.4 Installation schematic example

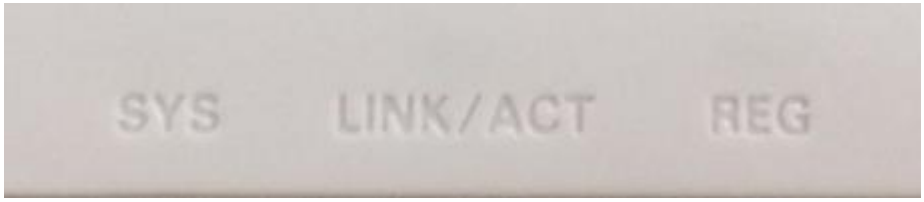


2.5 Front & rear panels

2.6 Panel description

Name	Function
PON	Connect to OLT by SC type fibre connector, single mode optical fibre cable.
LAN	Connect PC or other devices with Ethernet port by Cat5/6 cable, RJ-45 connector.
DC 12V	Connect supplied power adapter, DC 12V, 0.5A.
RST	Press RST button over 10 seconds, TONU restores factory default and reboot.

2.7 LEDs



LED	Mark	Status	Description
Interface	LINK/ACT	ON	Port is connected properly (LINK)
		Off	Port connection exception or not connected
		Blink	Port is sending or/and receiving data (ACT)
Registration	REG	ON	Green: the device is registered to PON system
		OFF	Device has received optical signal and is not registered to the PON system
		Blink	RED: the Device does not receive optical signals GREEN: the device registration is incorrect
System	SYS	On / Off	System is not running or fatal error
		Blink	System is running in normal conditions

2.8 First installation

1. Connect the optical fibre cable to the unit:
   - Remove the protective cap of the optical fibre
   - Clean the end of the optical fibre with an optical fibre end cleaner
   - Remove the protective cap of the ONU optical interface (PON interface)
   - Connect the fibre to the PON port on the unit

Note: When measuring the optical power before connecting to the ONU, it is recommended to use a PON Inline Power Meter.

While connecting, please note:
- Keep the optical connector and the optical fibre clean
- Make sure there are no tight bends in the fibre and that the bending diameter is greater than 6cm
- Otherwise, the optical signal loss may be increased, to the extent that signal may be unavailable
- Cover all optic ports and connectors with protective cap to guard against dust and moisture when the fibre is not used

2. Apply power to the unit, push the power button
3. After the ONU is powered ON, indicators should light up as for normal operation. Check whether the PON interface status LED (PON) is ON continuously. If it is, the connection is normal; otherwise, there is either problem of the physical connection or the optical level at either end. This may be caused by either too much or too little attenuation over the optical fibre. Please refer to the Layout Description section of this installation manual for normal LED activity
4. Check all signal levels and services on all the ONU communication ports

Unit Installation Adjustment:

- ONU installed on a horizontal surface (Bench top):
  - put the ONU 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

- ONU installed on a vertical surface (Hanging on a wall):
  - you can install the ONU on a vertical surface by using the mounting holes on the bottom of the ONU chassis and two flat-head wood screws
  - Insert the screws into the wall. The screw positions must be in the same horizontal line and the distance between them must be 145mm. Reserved at least 6mm between the screw caps and the wall
  - Hang the ONU on the screws through the mounting holes

3 Configuration

After finishing the basic connection configuration, you can use its basic function. To satisfy individuation service requirements, this charter provides the user parameter modification and individuation configuration description.

This model of ONU is designed as SFU (single family unit, bridge mode), there is no bridge mode WAN in ONU. When it works on bridge mode, VLAN of LAN port should be configured by OLT. When it works on router mode, you may configure through its web management.

3.1 Login

The device is configured by the web interface. The following steps will enable you to login:

1. Confirm “2.2 Quick Installation” to install
2. The device default IP is 192.168.1.1
3. Open your web browser, type the device IP in address bar
4. Entry of the username and password will be prompted. Enter the default login username and password that are given on the product label. By default, there are two user levels for management. Administration level username and password are given on the product label. Normal level username is "user", password is "user".

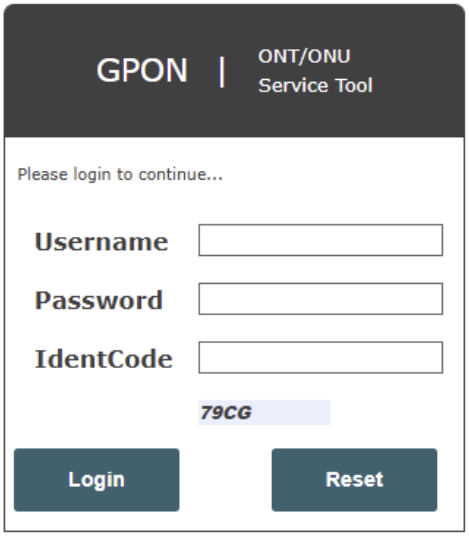


Figure 3-1: Login

For security, you will be asked to modify password after you logged in by default password. The new password must meet the requirements that display on the webpage. After submitted, it requires you to login by new password.

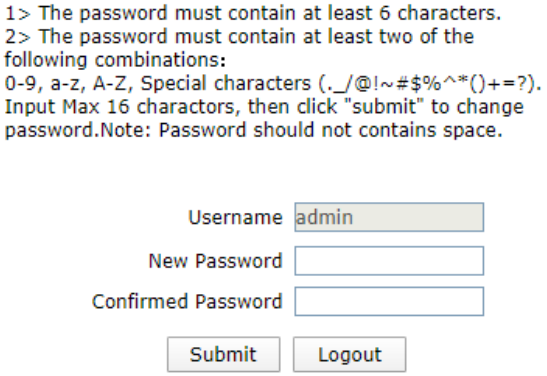


Figure 3-2: Change Password

3.2 Status

This part shows the main information of product.

3.2.1 Device Information

This page shows the device basic information, such as Device Model, Hardware Version, Software Version, PON SN, PON mode and so on.

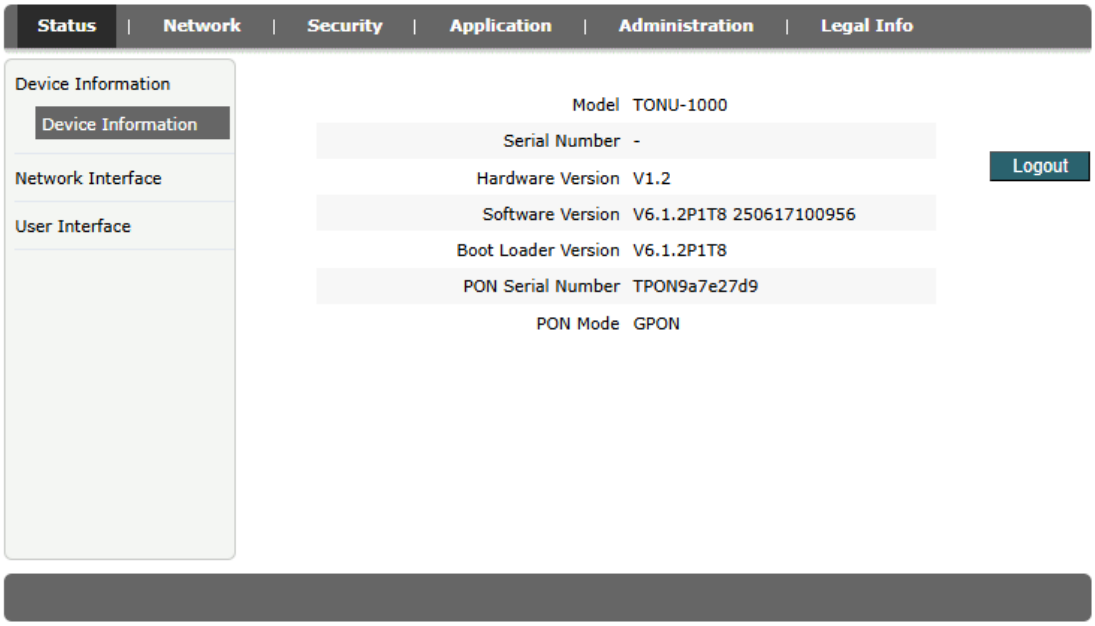


Figure 3-3: Device Information

3.2.2 Network Interface

3.2.2.1 WAN Connection

This page shows WAN connection information you have configured.

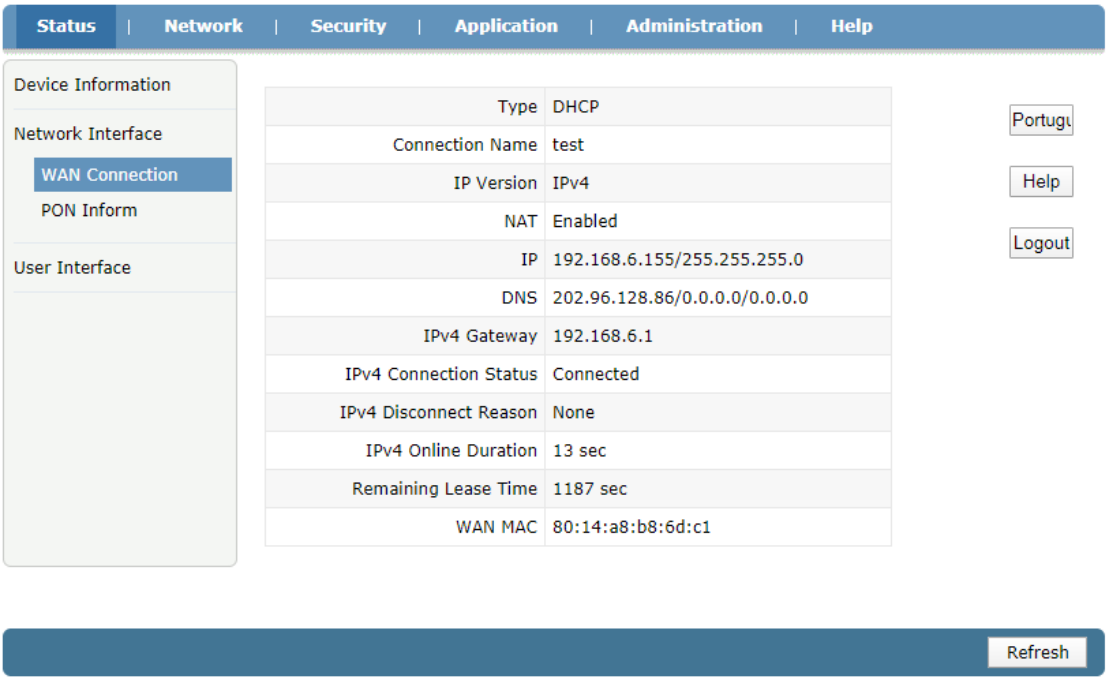


Figure 3-4: WAN Connection

3.2.2.2 PON Information

This page shows the PON information, such as PON state, input power, output power, and optical module voltage, current, temperature.

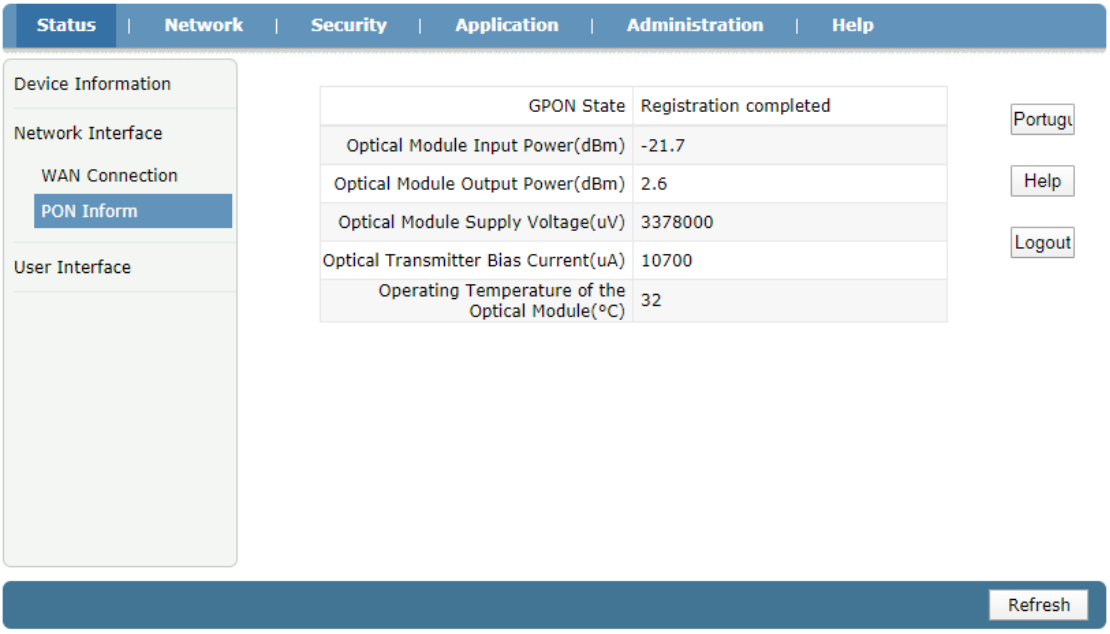


Figure 3-5: PON Information

3.2.3 User Interface

This page shows the Ethernet port information, including port status, MAC address and statistics.

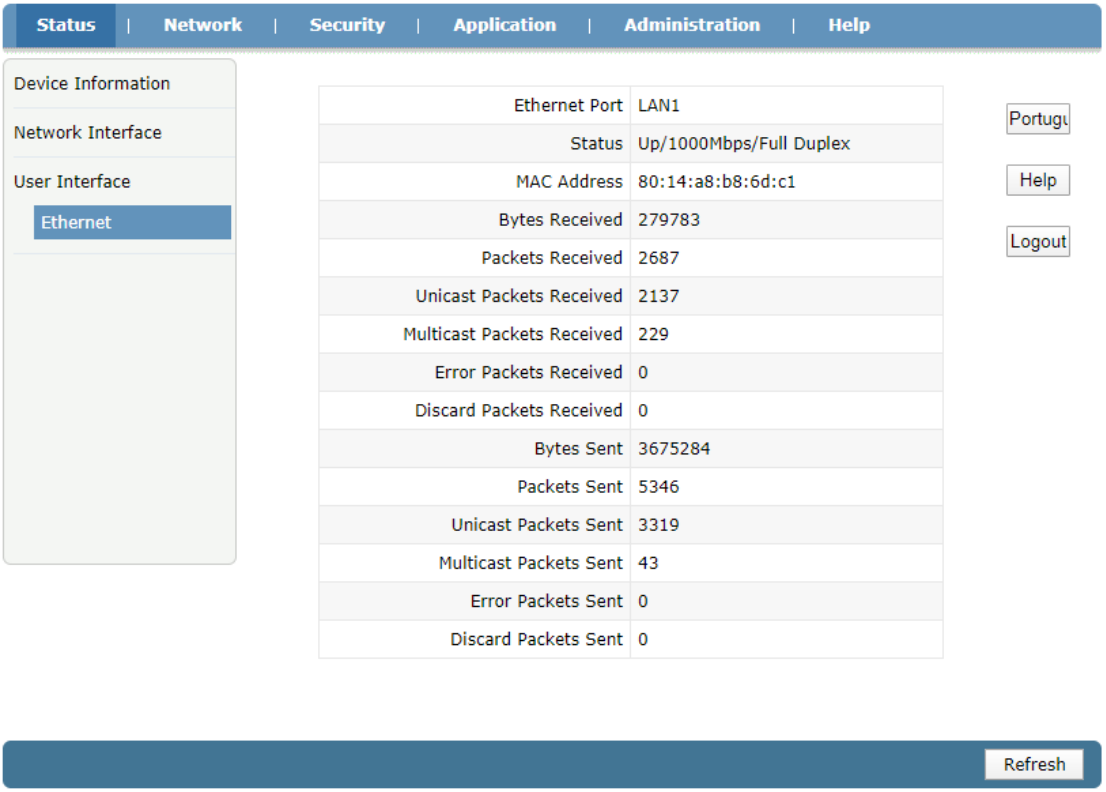


Figure 3-6: Ethernet Information

3.3 Network

3.3.1 Internet

This page allows user to configure router mode WAN connection. You can only configure route mode WAN connections here. The device default settings is bridge mode(without any WAN).

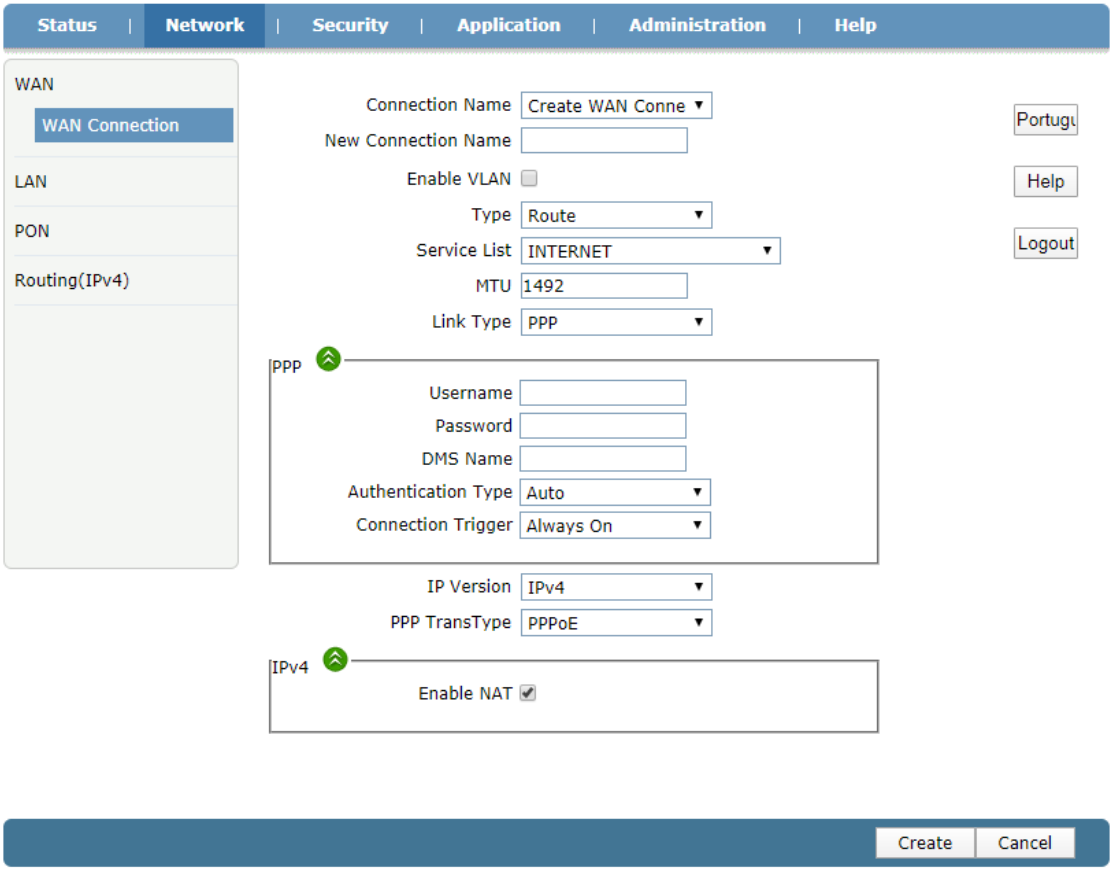


Figure 3-7: WAN Connection

Parameter		Illustration
Connection Name		List of WAN connection name that has been created: - to create a new WAN connection, please select “Create WAN Connection” and input other Parameter at the same time and then click “Create” button. - to edit WAN connection, please select the wan connect name you want to edit and change some Parameter and then click “Modify” button - to delete one connection, please select the wan connection you want to delete and then click “Delete” button
New Connection Name		Name of new connection that you want to create
VLAN	Enable VLAN	- Checked indicates the packets are transmitted by the PON port take VLAN tag - Unchecked indicates the packets are transmitted by the PON port don’t take VLAN tag
	VLAN ID	Input the VLAN ID you want to set. Range is 0~4094. Input 0 means don’t use any VLAN
	802.1P	Select VLAN priority you want to set. Range is 0~7
Type		Bridge/Route. There is only Route mode can be selected: - The device works on route mode with this WAN connection - To work on bridge mode, don’t configure any WAN connection
Service List		Service mode indicates what the wan connection is used for. There is only INTERNET can be selected
MTU		Max transfer unit. Default Value (in Byte): 1500(static/DHCP) or 1492(PPPoE)
Link Type		PPP/IP. PPP is used for PPPoE, and IP is used for static IP or DHCP
PPP	Username	PPPoE account
	Password	PPPoE password
	DMS name	Server name
	Authentication Type	PPPoE authentication type, including Auto, PAP and CHAP
	Connection Trigger	The trigger of PPPoE connection after disconnected: - Always On: once PPPoE disconnected, ONU will connect again automatically - On Demand: ONU will connect again if there is data traffic - Manual: ONU will connect again after submitted the configurations
IP Version		IPv4/IPv6
Enable NAT		- Checked indicates NAT function is enabled - Unchecked indicates NAT function is disabled. Only IPv4 has this option
IP Type/PPP TransType		Method of WAN connection Obtains IP address: - If link type is PPP, PPP TransType will be PPPOE - if link type is IP, IP Type will be static or DHCP
IPv6	IPv6 Info Get Mode	Method of WAN connection obtains IPv6 address, including Manual Mode and Auto Mode
	GUA From	Method of WAN connection obtains Global Unique IPv6 Address
	DNSv6 From	Method of WAN connection obtains DNSv6
	Prefix Delegation From	Method of prefix delegation.

3.3.2 LAN

This page supports the management of the ONU's IP address, dynamic address management, including dynamic address distribution and relevant parameters distribution, such as lease time, address range, DHCP Proxy, etc.

3.3.2.1 DHCP Server

This page contains LAN IPv4 address and LAN DHCP server configurations.

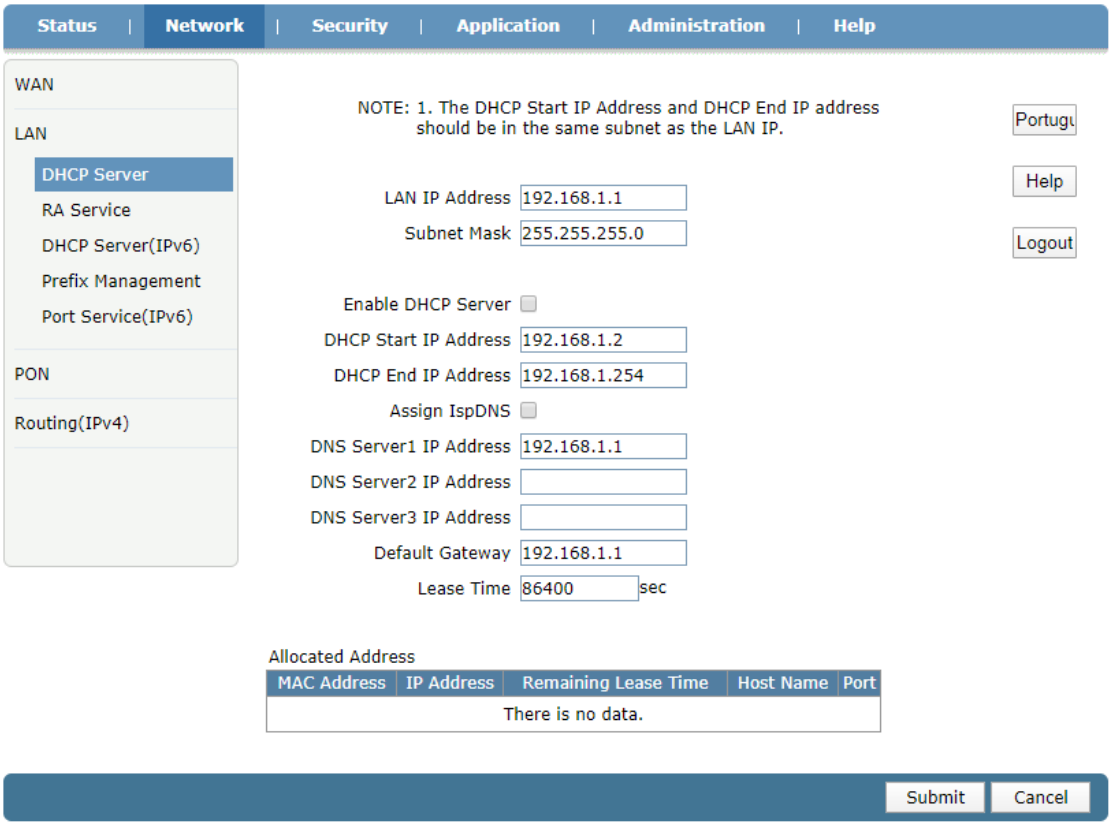


Figure 3-8: LAN IPv4 Address Settings

Parameter		Illustration
LAN IP Address		LAN IPv4 address.
Subnet Mask		LAN IPv4 mask.
Enable DHCP Server		Switch of ONU DHCP server.
Start IP Address		The start IP address of DHCP IP pool.
End IP Address		The end IP address of DHCP IP pool.
DNS	Assign ISP DNS	Checked indicates LAN DHCP will use ISP DNS Unchecked indicates LAN DHCP use DNS that set in the textbox.
	DNS Server IP Address	DNS server addresses for LAN DHCP.
Default Gateway		Default gateway of LAN DHCP. It should be the same as LAN IPv4 IP address.
Lease Time		Lease time of the IP address.

3.3.2.2 RA Service

This page show RA configuration.

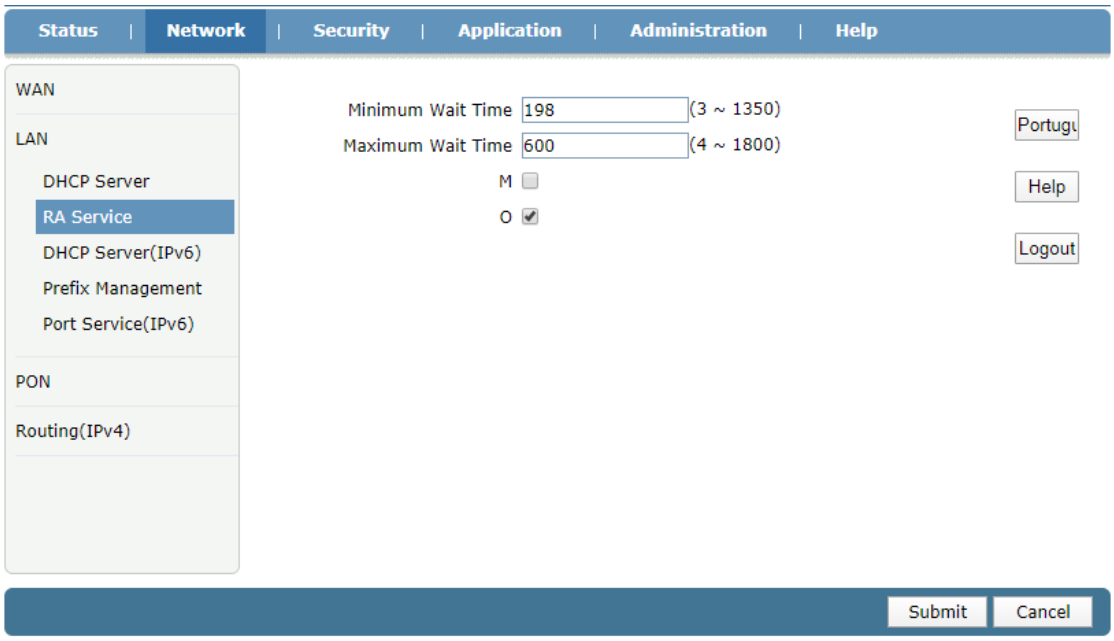


Figure 3-9: RA Configuration

3.3.2.3 DHCP Server (IPv6)

This page contains LAN IPv6 address and LAN DHCP server configurations.

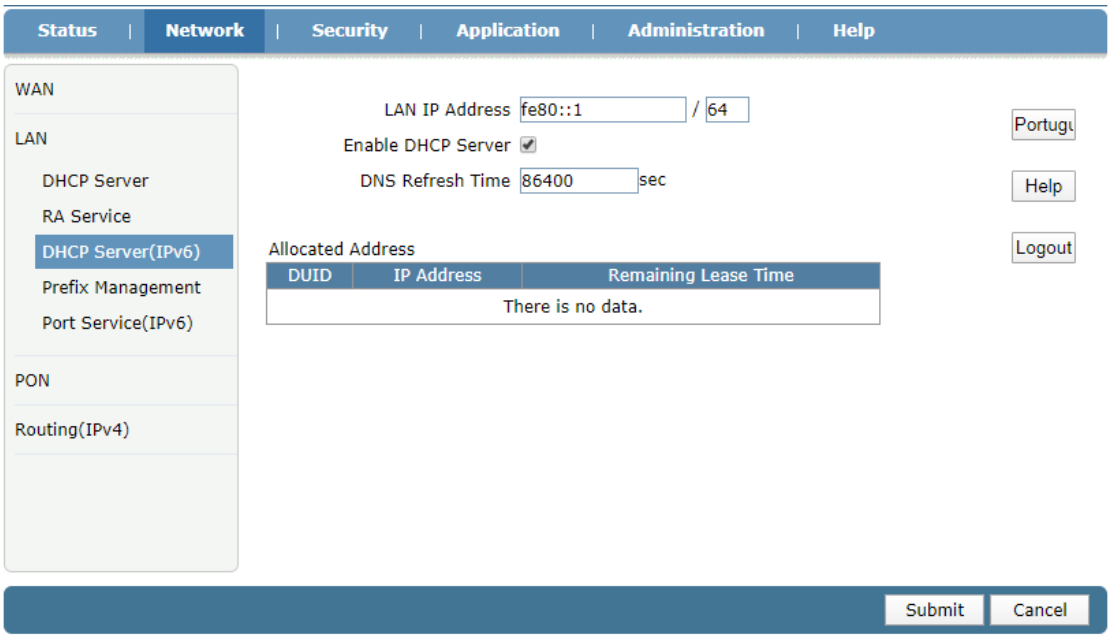


Figure 3-10: LAN IPv6 Address Settings

3.3.2.4 Prefix Management

This page is used to configure IPv6 prefix parameters.

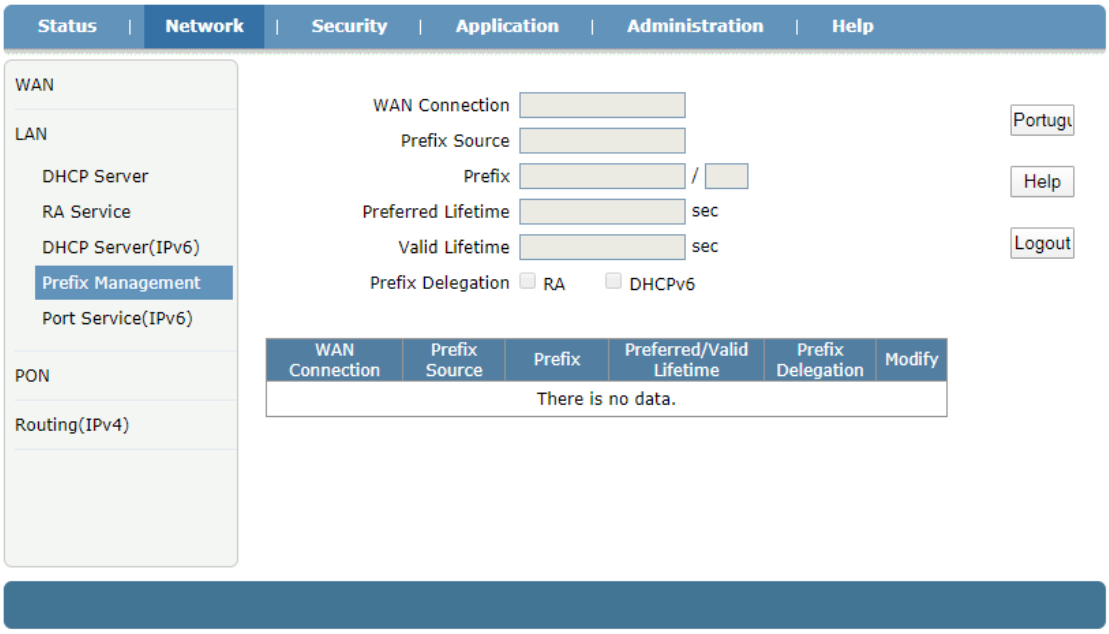


Figure 3-11: Prefix Management

3.3.2.5 Port Service (Ipv6)

This page is used to configure DHCPv6 and RA function of LAN port.

Figure 3-12: Port Service (IPv6)

3.3.3 PON Settings

3.3.3.1 LOID

This page allows user to configure LOID and password which are used for registering to OLT.

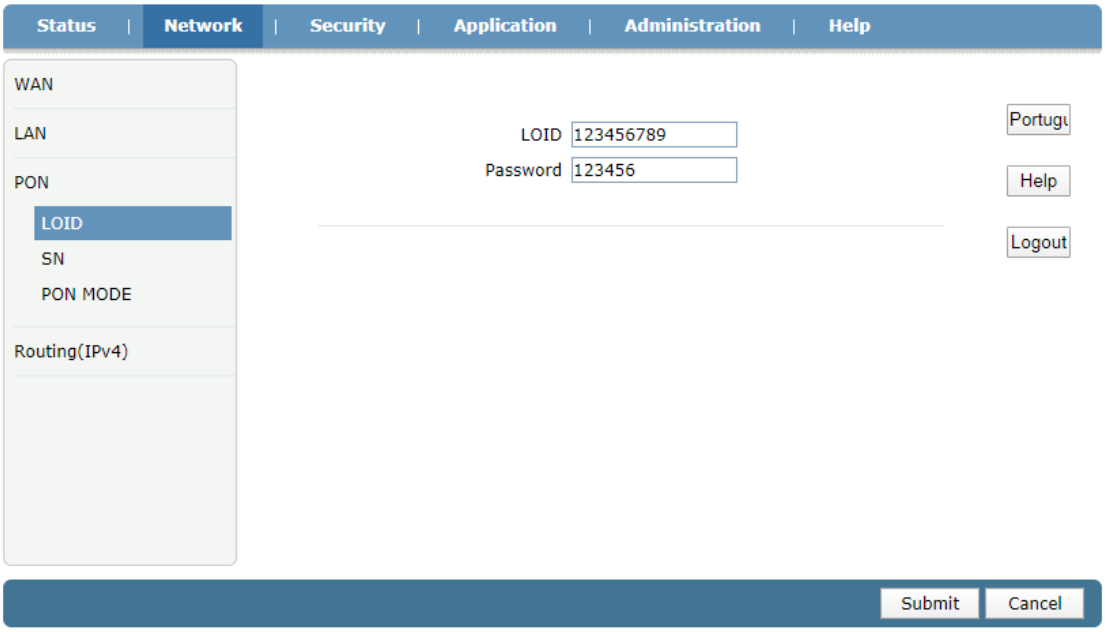


Figure 3-13: LOID settings

3.3.3.2 SN

This page allows user to configure GPON SN and password which are used for registering to OLT.

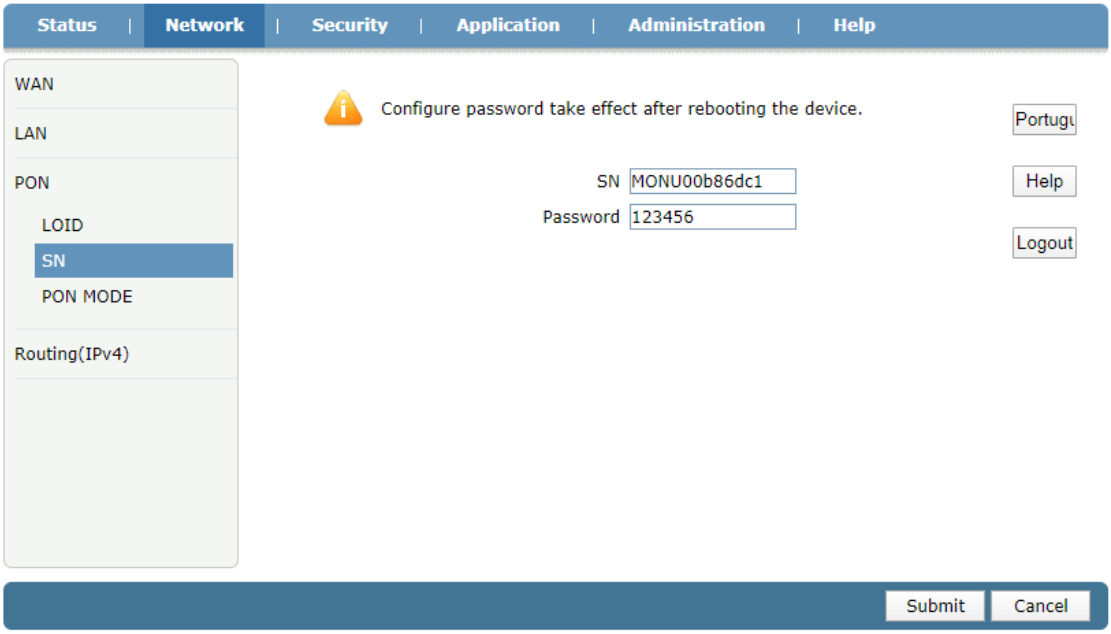


Figure 3-14: GPON SN Settings

3.3.3.3 PON Mode

This page allows user to configure PON mode when connected to corresponding system:

- AUTO: ONU will detect PON mode and shift to proper PON mode
- GPON: ONU will work on GPON mode
- EPON: ONU will work on EPON mode

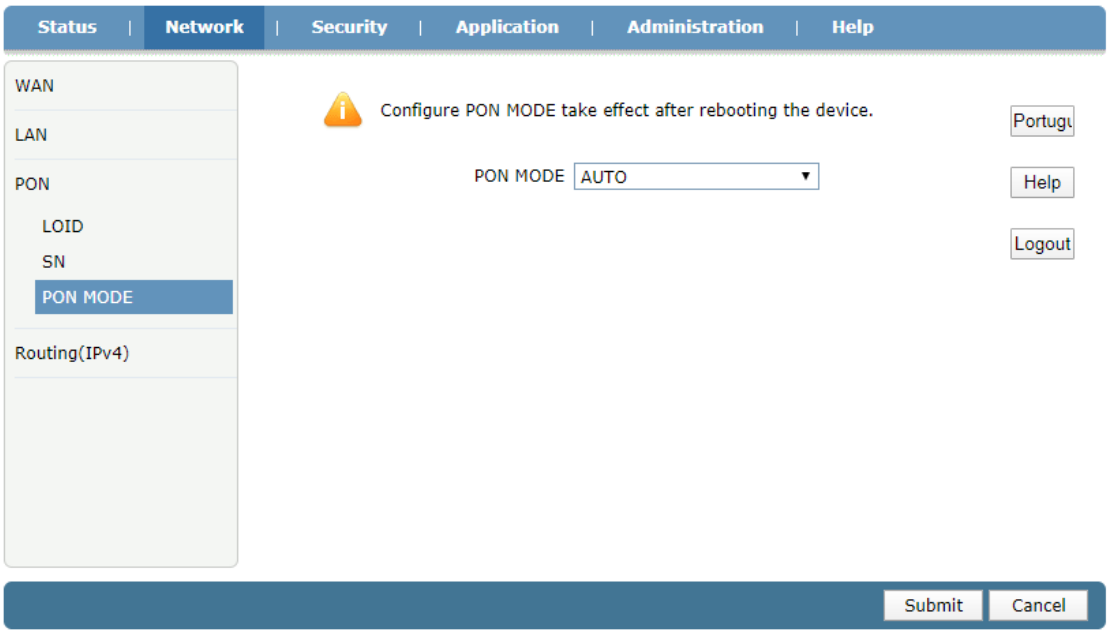


Figure 3-15: PON Mode

3.3.4 Routing (Ipv4)

3.3.4.1 Default Gateway

This page allows user to configure default gateway of ONU. Just need to specify the WAN connection that connected to the gateway.

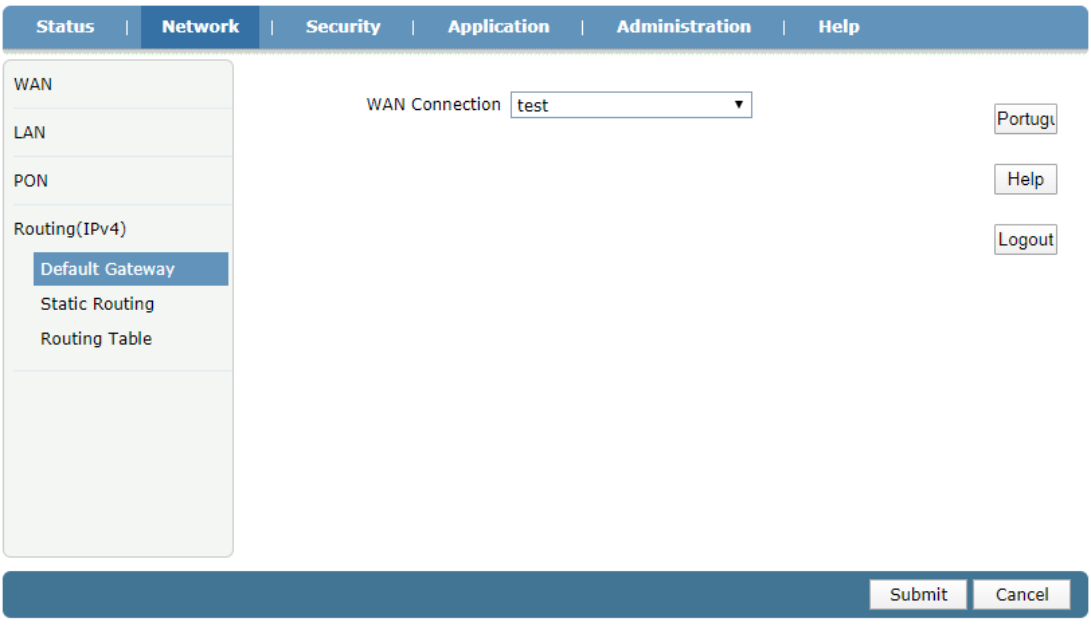


Figure 3-16: Default Gateway

3.3.4.2 Static Routing

This page allows user to specify a WAN connection as the Route Interface, and then configure destination IP, mask and gateway.

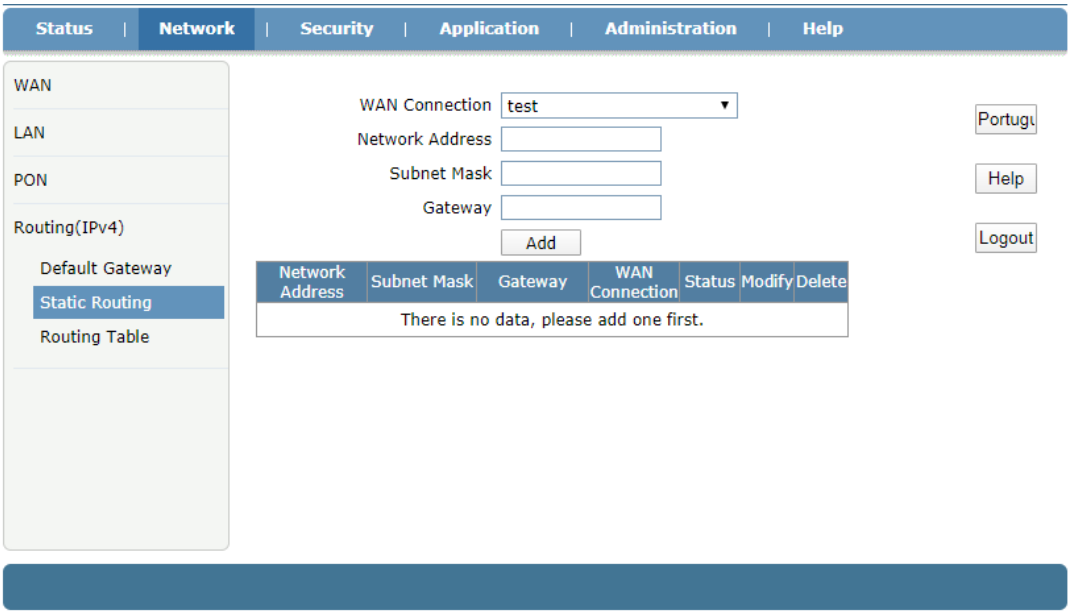


Figure 3-17: Static Routing

Parameter	Illustration
WAN Connection	Select WAN connection as static routing interface.
Network Address	Destination network address.
Subnet Mask	The Mask of destination network address.
Gateway	Gateway IP address of static routing.

3.3.4.3 Routing Table

This page displays IP routing rules.

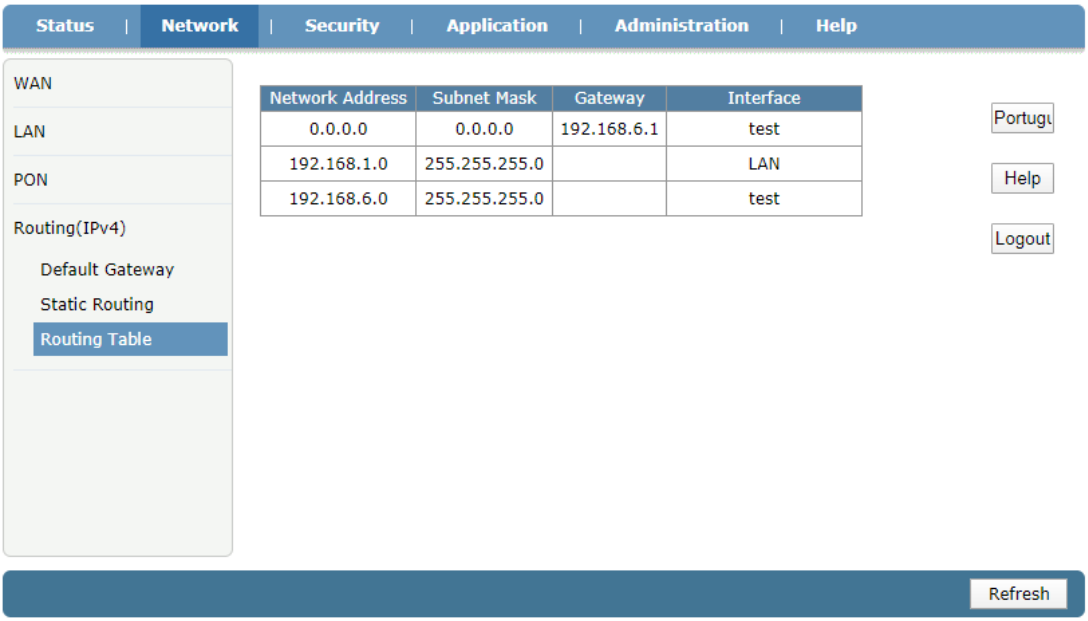


Figure 3-18: Routing Table

3.4 Security

3.4.1 Firewall

This page allows user to set anti-hacking protection and the level of the firewall (IPv4). User also can set custom firewall rules.

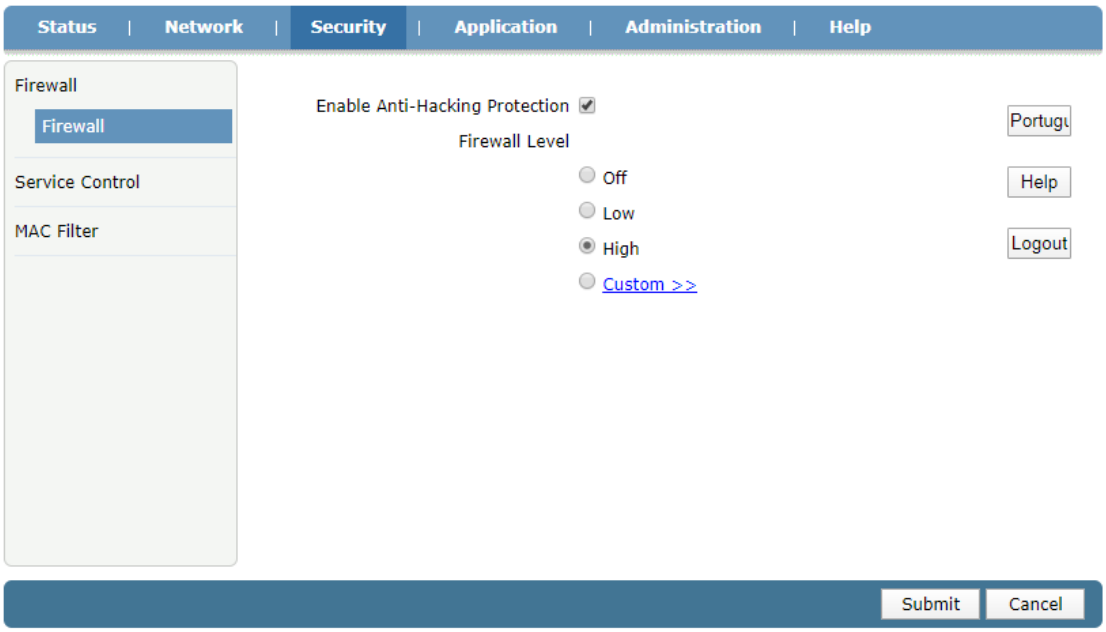


Figure 3-19: Firewall Level

Parameter	Illustration
Enable Anti-Hacking Protection	Anti-Hacking Protection switch.
Firewall Level	- Low: Allow all inner or outer hosts to access - Middle: Allow inner or outer hosts which are limited by the rules that have been created to access. - High: Forbid ICMP Input, Forbid Port Scan, Denial of Service protections.

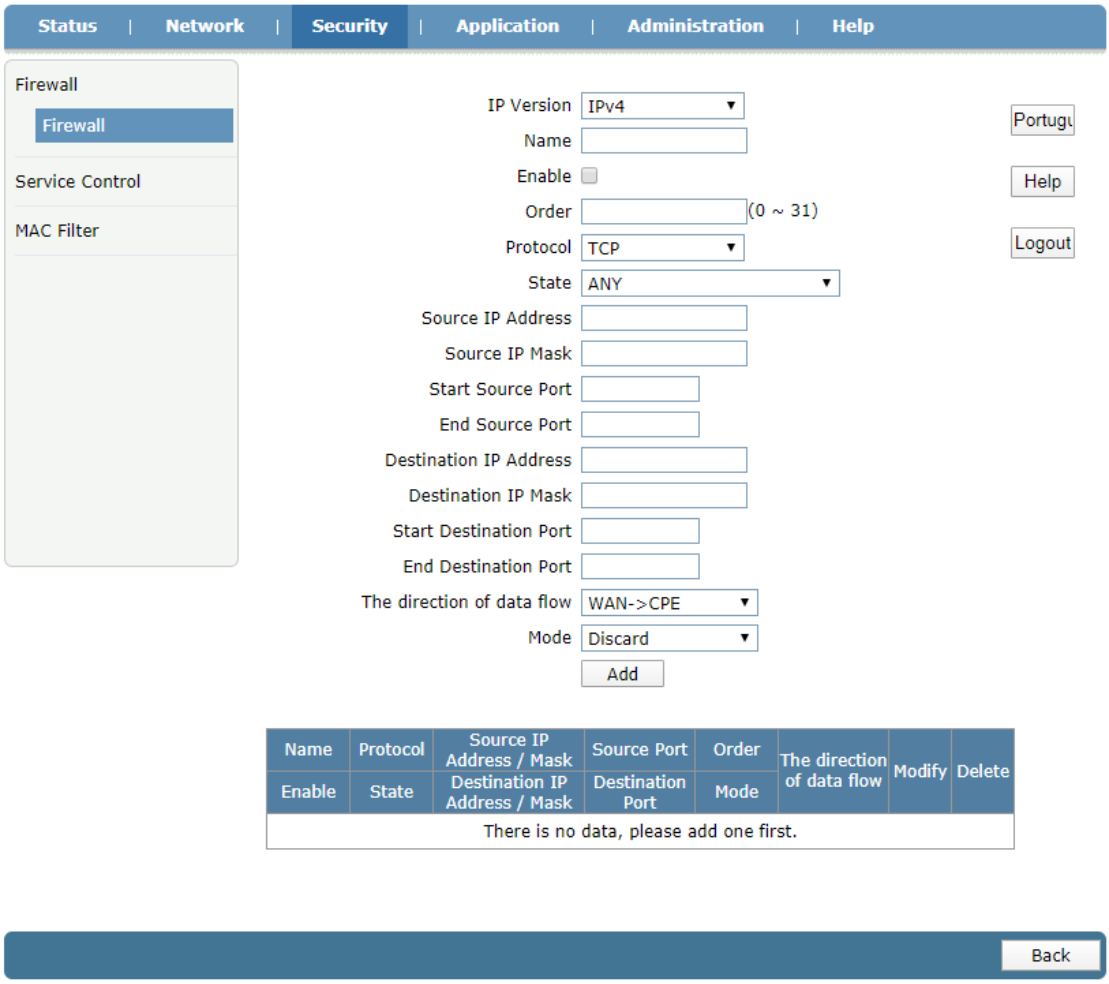


Figure 3-20: Custom Firewall Rule

Parameter	Illustration
IP Version	Select IPv4 or IPv6.
Name	Firewall rule name.
Enable	Enable or disable the rule.
Order	Order of the rule.
Protocol	Select protocol which the rule used for. There are only several protocols can be selected.
State	Select data traffic state. Suggest using ANY.
Source IP Address	Source IP address of traffic that matches the rule.
Source IP Mask	Mask of source IP address.
Start Source Port	Start source TCP or UDP port. The protocol must be TCP or UDP.
End Source Port	End source TCP or UDP port. The protocol must be TCP or UDP.
Destination IP Address	Destination IP address of traffic that matches the rule.
Destination IP Mask	Mask of destination IP address.
Start Destination Port	Start destination TCP or UDP port. The protocol must be TCP or UDP.
End Destination Port	End destination TCP or UDP port. The protocol must be TCP or UDP.
The direction of data flow	Direction of data flow that matches the rule. In the option, CPE indicates CPU of ONU.
Mode	Data forward mode of the rule, including discard and permit.

3.4.2 Service Control

This page allows user to set IP filter rules.

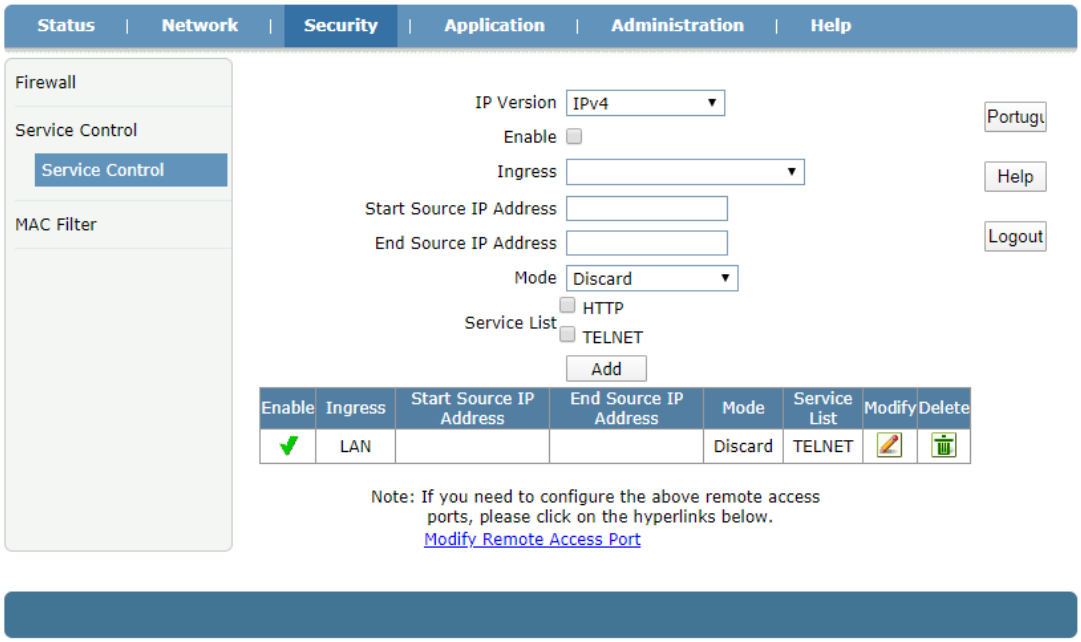


Figure 3-21: Service Control

Parameter	Illustration
IP Version	Select IPv4 or IPv6.
Enable	Enable or disable IP filter rule.
Ingress	Ingress interface of data traffic.
Start Source IP Address	Start source IP address of data traffic.
End Source IP Address	End source IP address of data traffic.
Mode	Data transfer mode, including discard or permit.
Service List	Service list for IP filter.

User also can configure remote access port for different service, such as http and telnet.

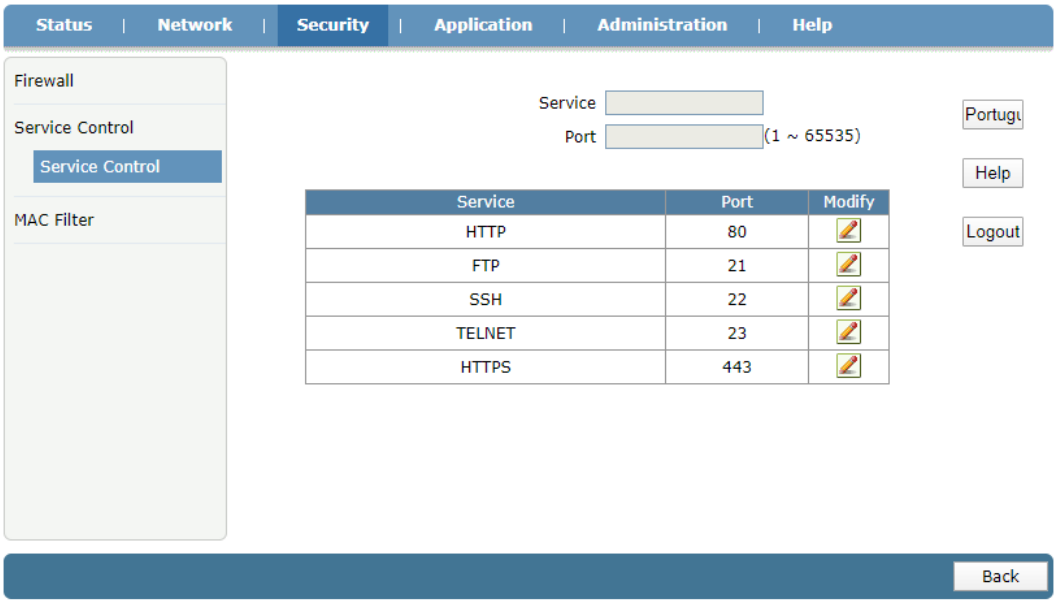


Figure 3-22: Remote Access Port

3.4.3 MAC Filter

This page allows user to set the relevant parameters of the MAC filter function. The table will display the MAC Filter rules after setting completed.

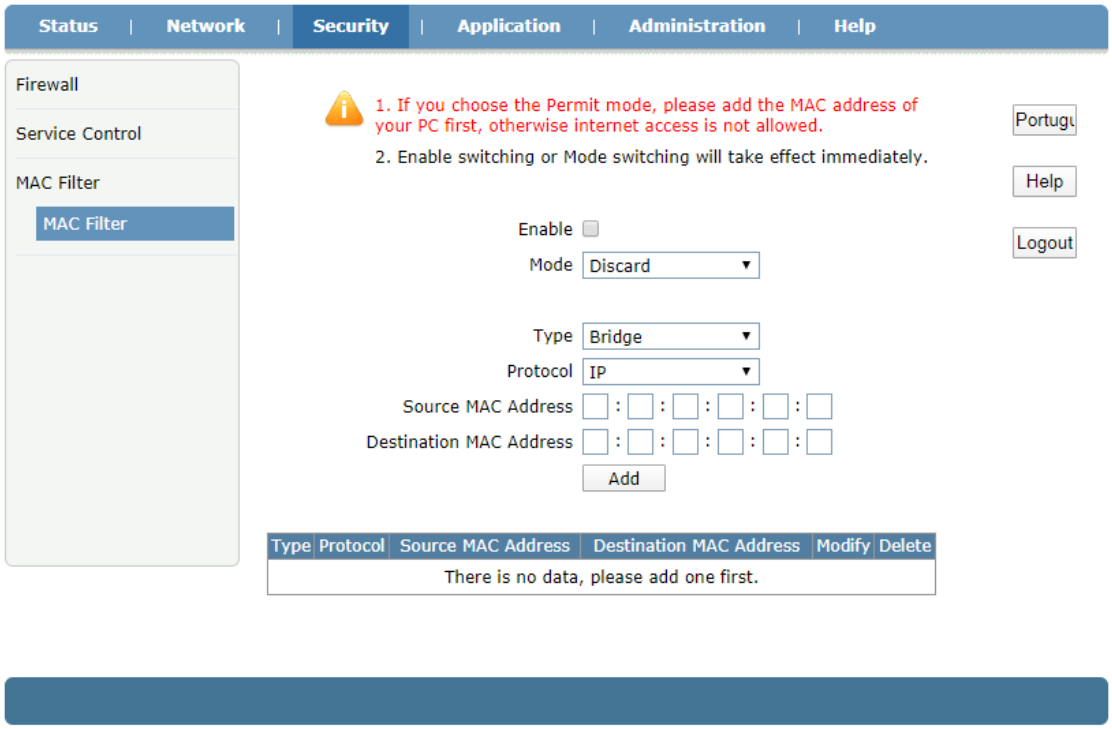


Figure 3-23: MAC Filter

Parameter	Illustration
Enable	Enable or disable the rule.
Mode	Data transfer mode, including discard or permit.
Type	Select ONU working mode that the rule takes effect.
Protocol	Select protocol of data traffic.
Source MAC Address	Source MAC address of data traffic.
Destination MAC Address	Destination MAC address of data traffic.

3.5 Application

3.5.1 Multicast

3.5.1.1 IGMP Mode

This page allows user to enable or disable IGMP snooping.

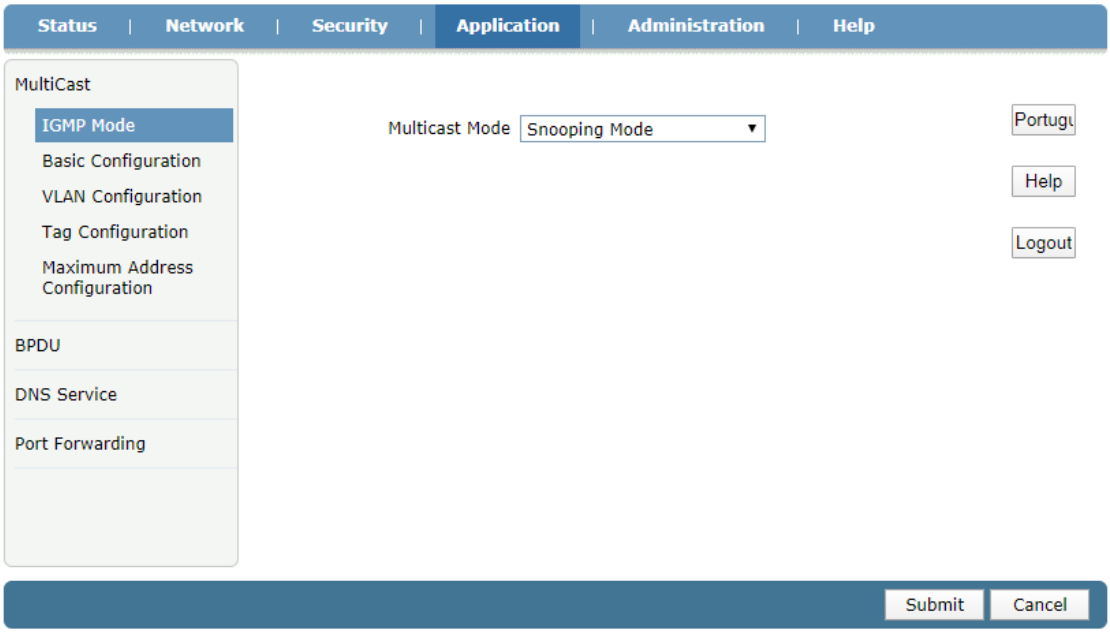


Figure 3-24: IGMP Mode

3.5.1.2 Basic Configuration

This page allows user to configure IGMP basic configuration, including multicast aging time and non-fast leave.

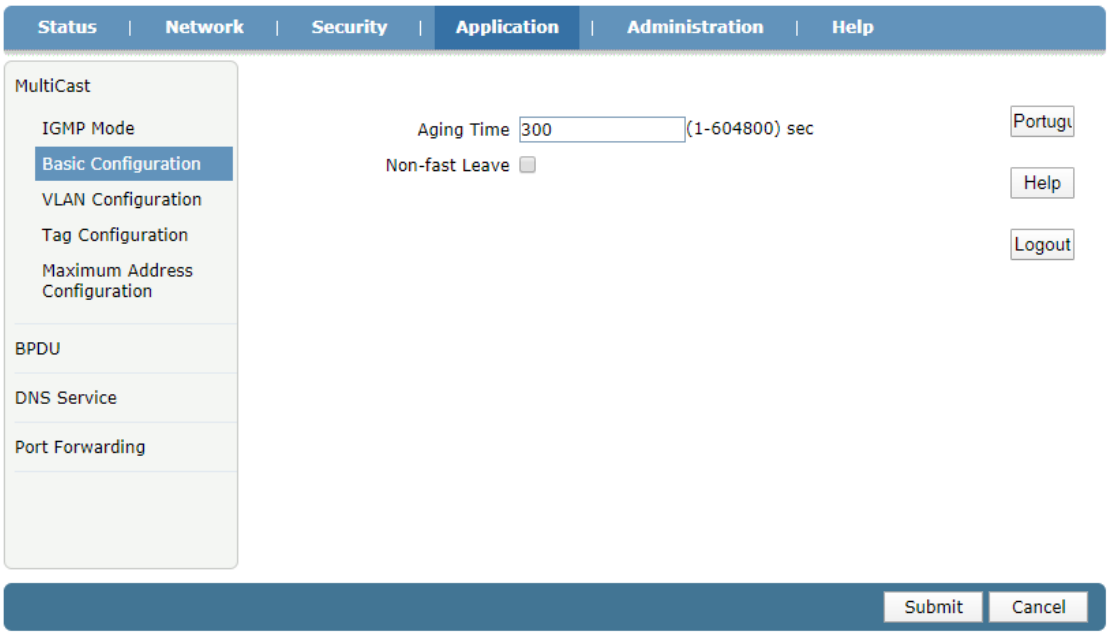


Figure 3-25: IGMP Basic Configuration

3.5.1.3 VLAN Configuration

This page allows user to configure multicast VLAN for the port. If WAN VLAN is not the same as LAN VLAN, it means multicast VLAN will be translated.

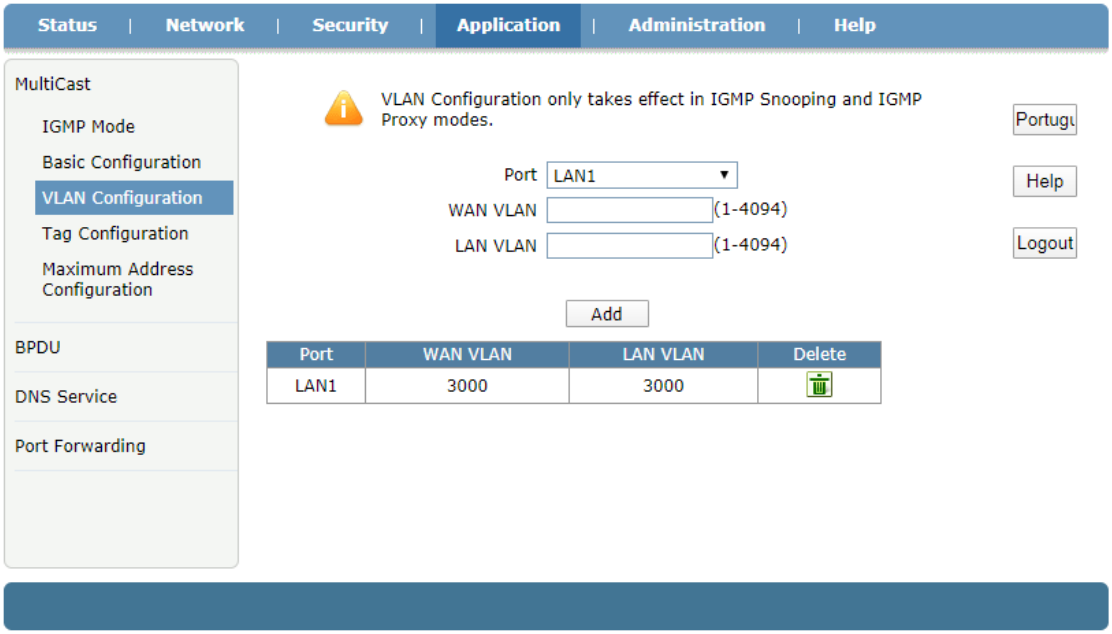


Figure 3-26: Multicast VLAN

3.5.1.4 Tag Configuration

This page allows user to configure multicast VLAN untag mode.

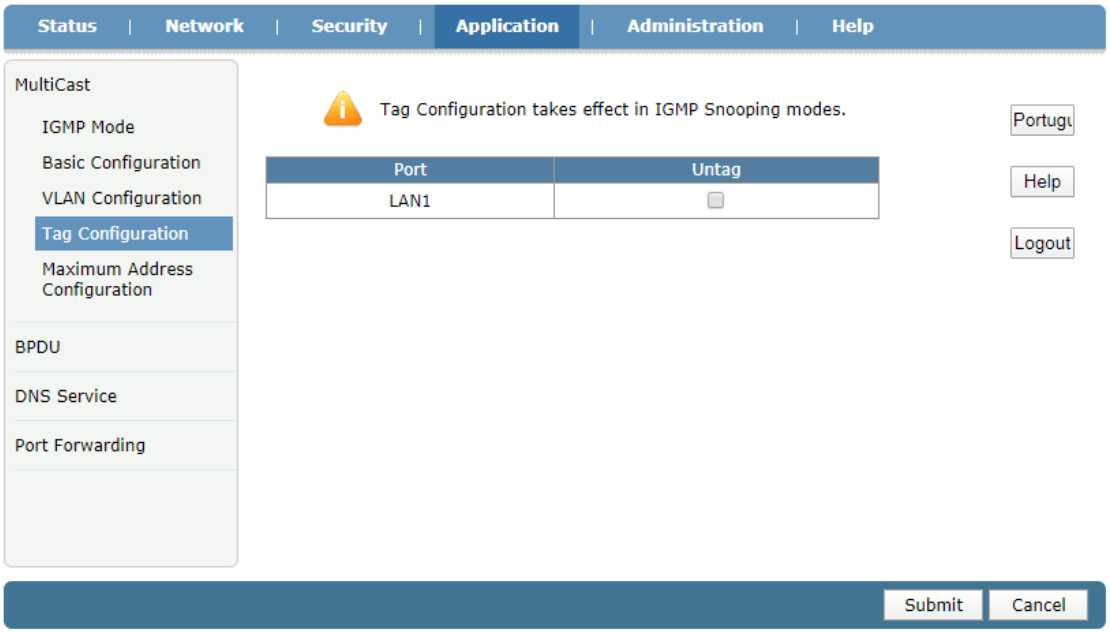


Figure 3-27: Tag Configuration

3.5.1.5 Maximum Address Configuration

This page allows user to configure maximum multicast address.

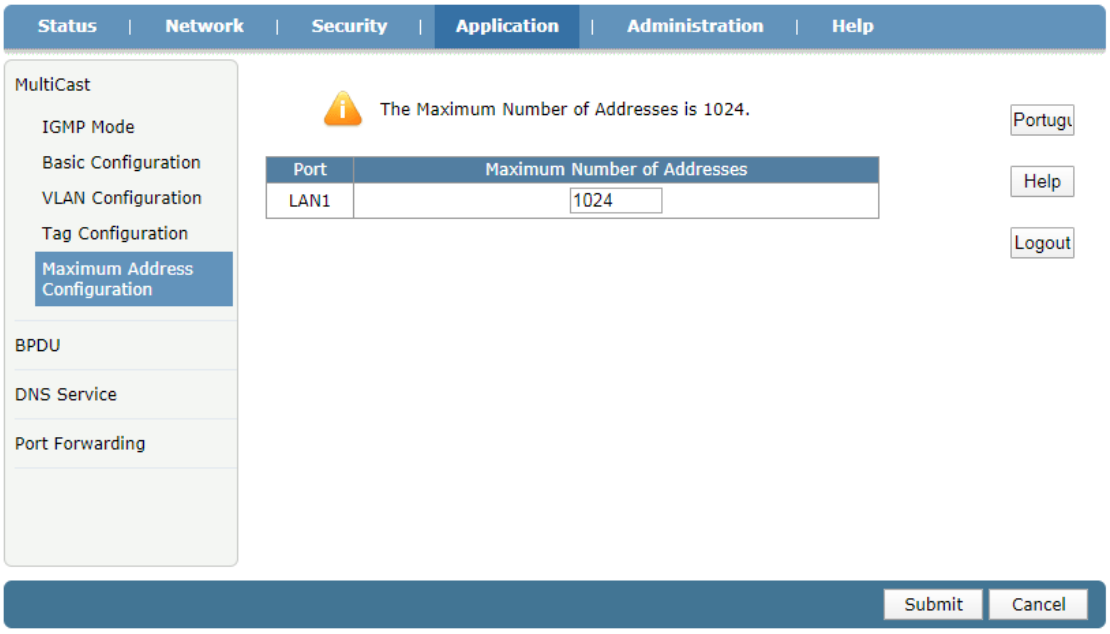


Figure 3-28: Maximum Address Configuration

3.5.2 BPDU

This page allows user to enable or disable RSTP BPDU (Bridge Protocol Data Unit) forwarding.

Figure 3-29: BPDU Forwarding

3.5.3 DNS Service

3.5.3.1 Domain Name

This page allows user to configure domain name of ONU. Users can access ONU webpage by this domain name.

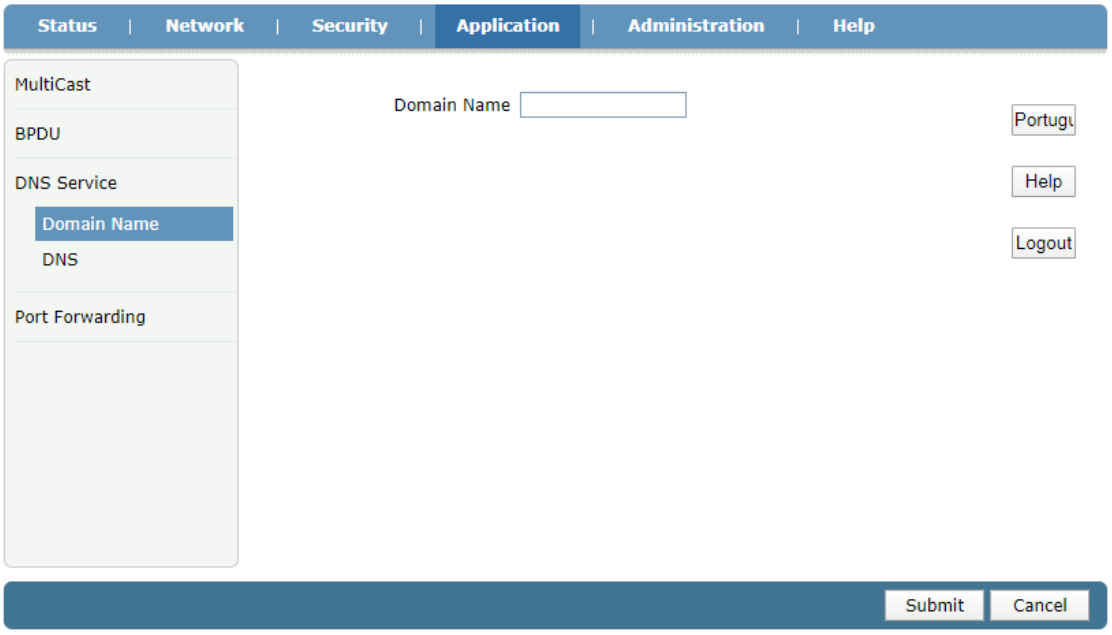


Figure 3-30: Domain Name

3.5.3.2 DNS

This page allows user to configure DNS server. DNS request will be sent to these DNS servers.

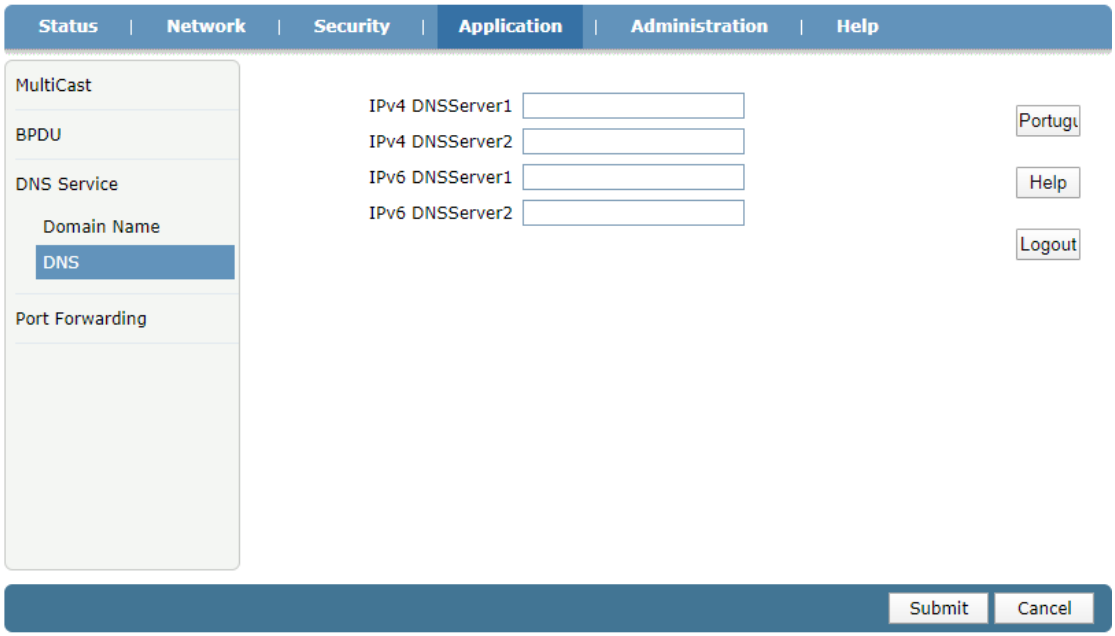


Figure 3-31: DNS

3.5.4 Port Forwarding

This page allows user to configure port forwarding.

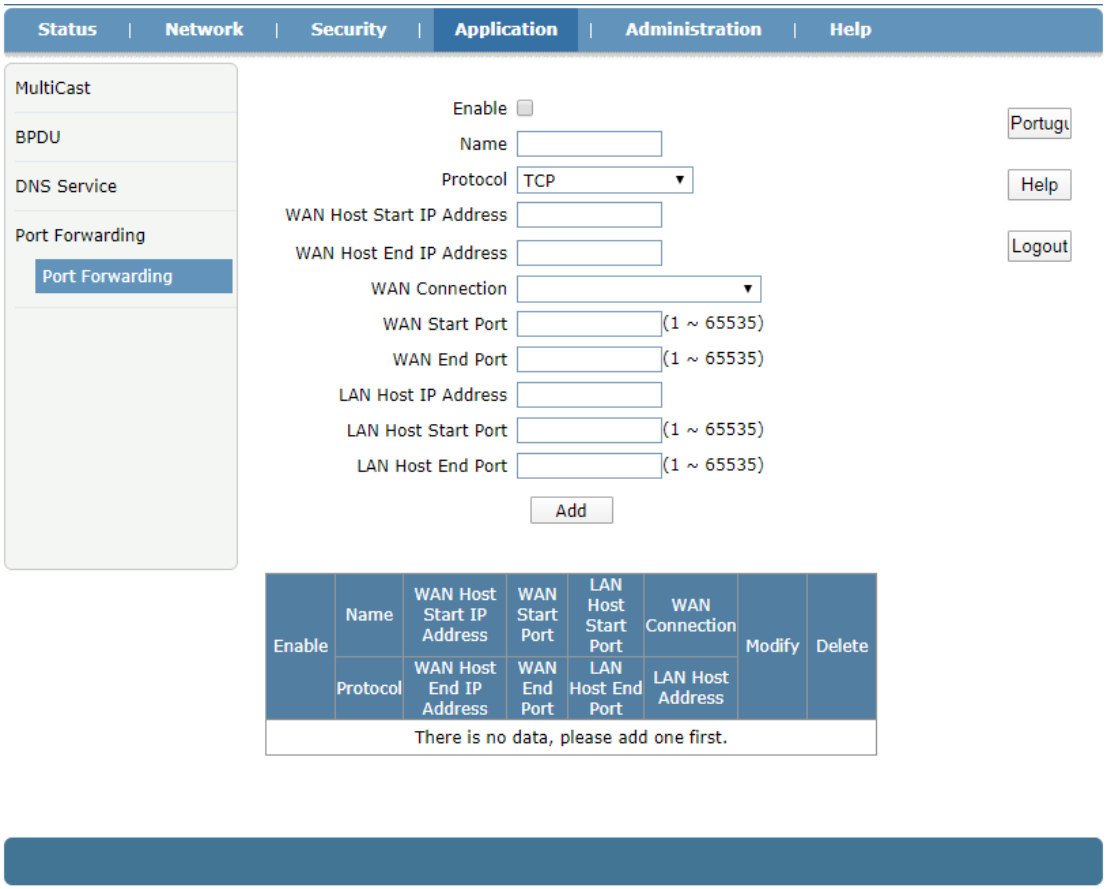


Figure 3-32: Port Forwarding

Parameter	Illustration
Enable	Enable or disable port forwarding rule.
Name	Name of the port forwarding rule.
Protocol	Protocol of the port forwarding rule, including TCP and UDP.
WAN Host Start/End IP Address	Specify WAN host IP range for the port forwarding rule. Only in the range, the host of WAN side can work with the rule.
WAN Connection	Select WAN connection.
WAN Start/End Port	TCP or UDP port range of WAN side host.
LAN Host IP Address	Specify host IP address of LAN side.
LAN Host Start/End Port	TCP or UDP port range of LAN side host.

3.6 Administration

3.6.1 User Management

This page allows user to change password of current login username.

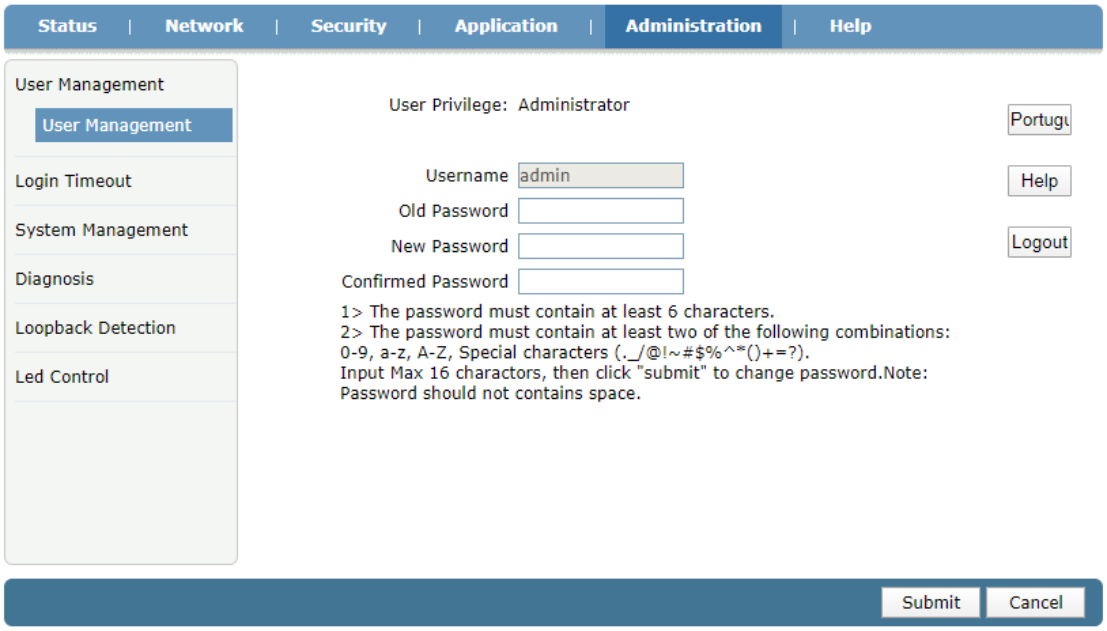


Figure 3-33: User Management

3.6.2 Login Timeout

This page allows user to set webpage login timeout. If don't operate the webpage for the time out, the account will logout automatically.

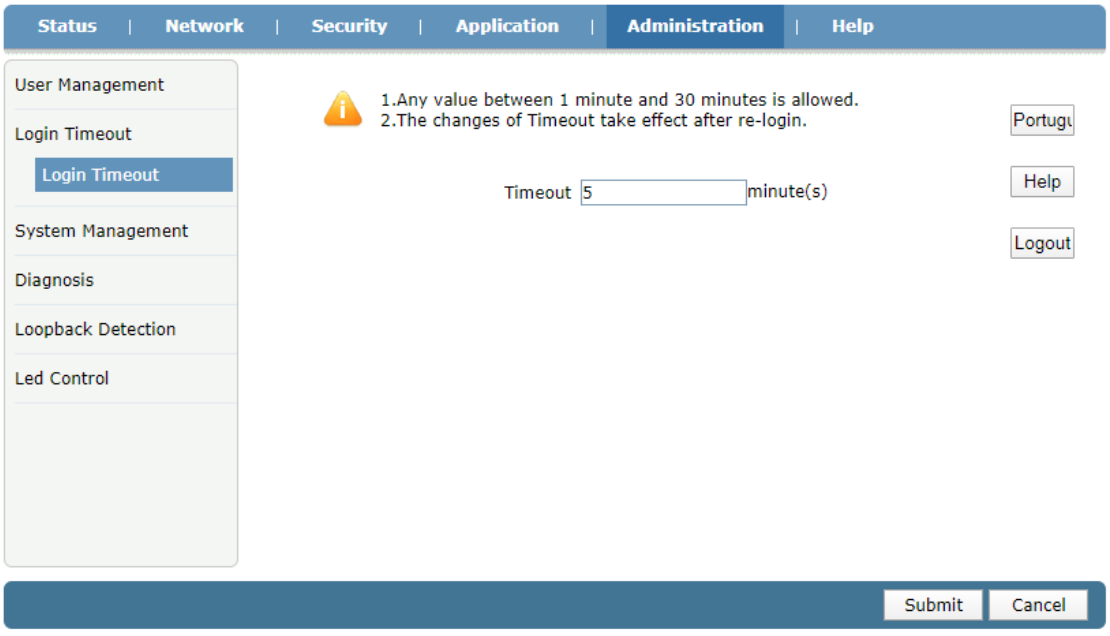


Figure 3-34: Login Timeout

3.6.3 System Management

3.6.3.1 System Management

This page allows user to reboot the device, restore factory default and restore backup configuration. The process of reboot will take several minutes.

Figure 3-35: System Management

3.6.3.2 Software Upgrade

This page allows user to update software of the device. Click the “Choose File” button to select the software and then click the “Update” button to update.

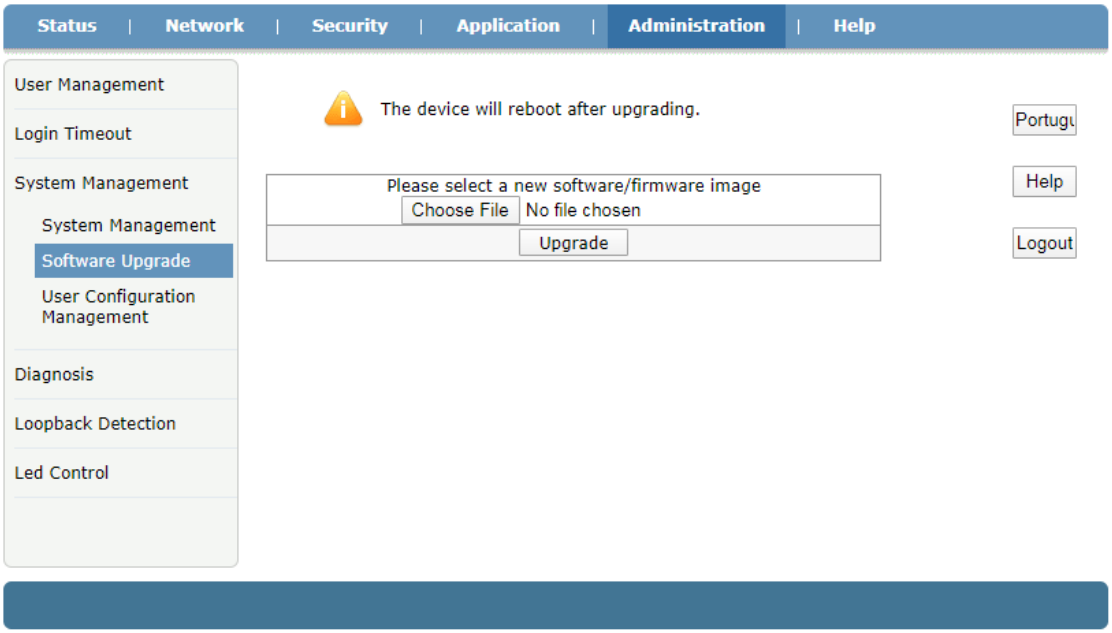


Figure 3-36: Software Upgrade

3.6.3.3 Configuration Management

This page allows user to backup and restore configuration.

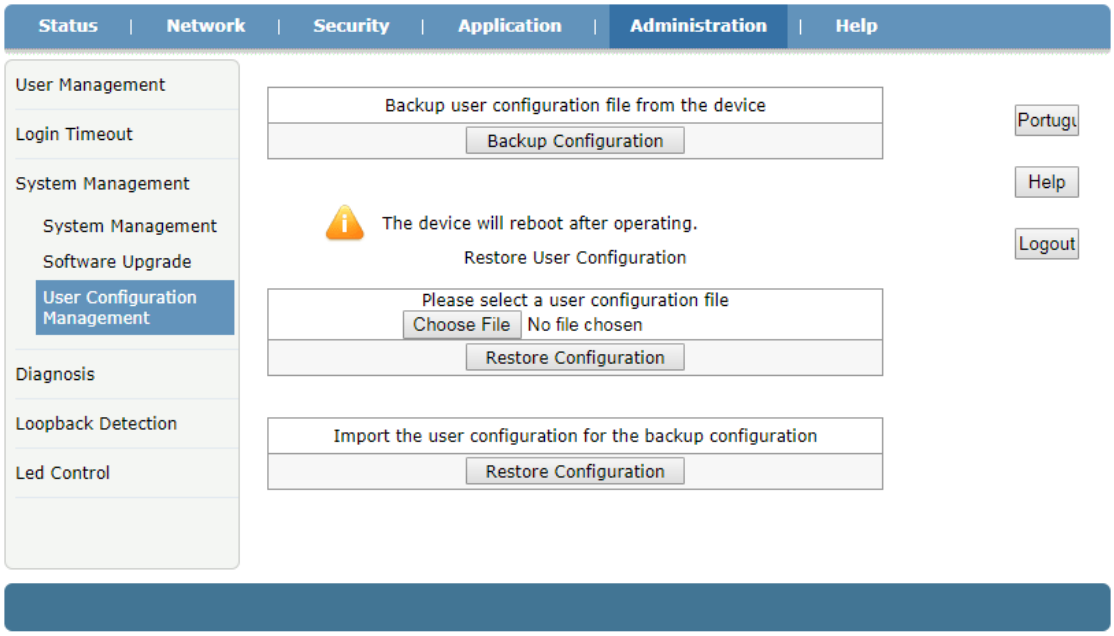


Figure 3-37: Configuration Management

3.6.4 Diagnosis

3.6.4.1 PING Diagnosis

This page shows about the ping test. You can diagnose connection status between ONU and other devices.

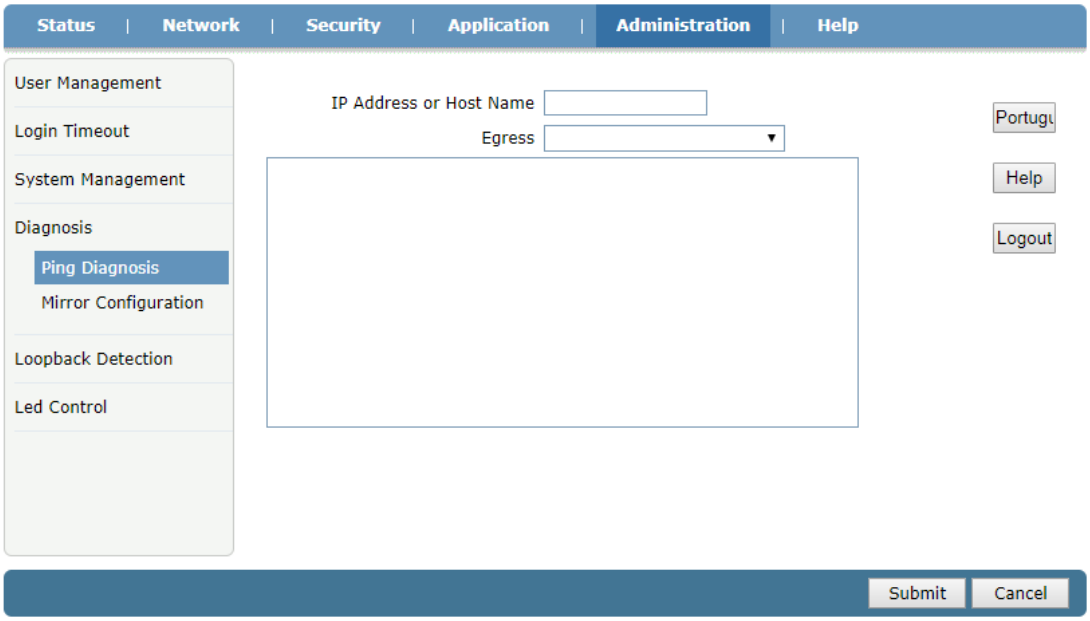


Figure 3-38: PING Diagnosis

Parameter	Illustration
IP Address or Host Name	Input the destination IP you want to ping.
Egress	Select the egress interface you want to ping.

3.6.4.2 Mirror Configuration

This page allows user to set port mirror for troubleshooting. After configured port mirror, the traffic of WAN connection will be copied and sent to LAN port.

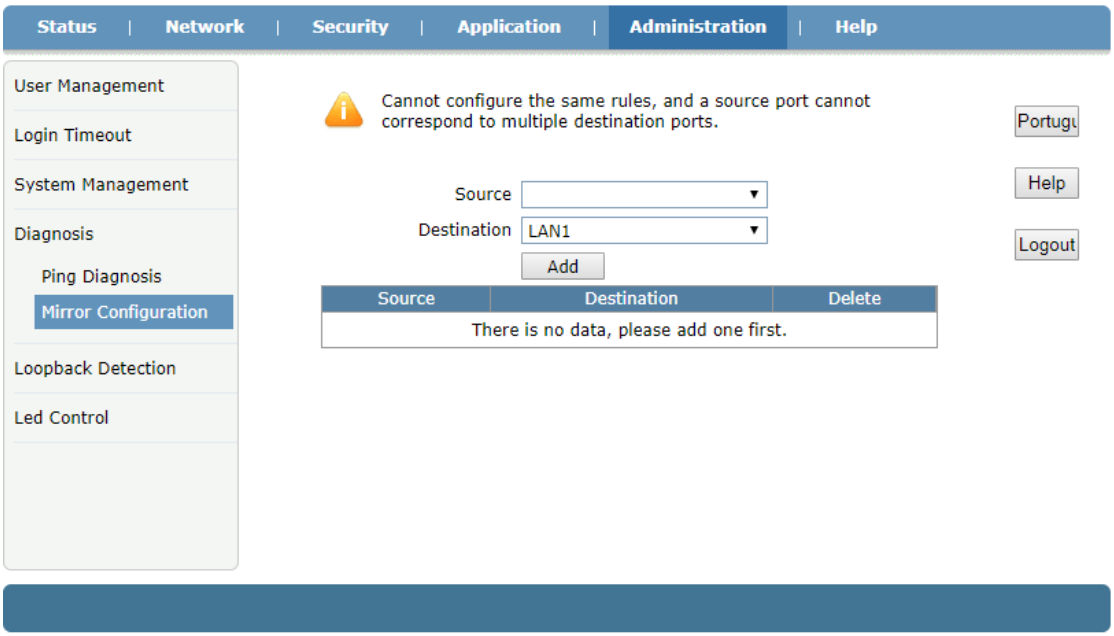


Figure 3-39: Port Mirror

Parameter	Illustration
Source	Select WAN connection as mirrored interface.
Destination	The LAN port is mirroring interface.

3.6.5 Loopback Detection

3.6.5.1 Basic Configuration

This page allows user to set basic parameters of loopback detection.

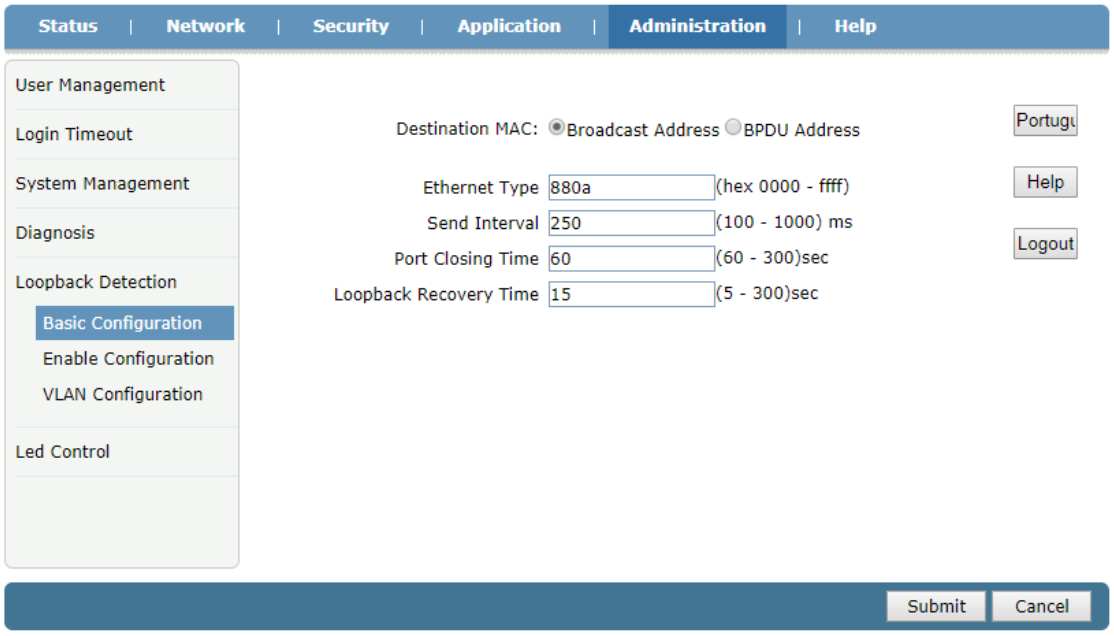


Figure 3-40: Basic Configuration

Parameter	Illustration
Destination MAC	Select the destination MAC of loopback packet.
Ethernet Type	Set the Ethernet type of loopback packet.
Send Interval	Set sending Interval time of loopback packet.
Port Closing Time	Set how much time the port will be closed once detected loopback.
Loopback Recovery Time	Set loopback recovery time.

3.6.5.2 Enable Configuration

This page allows user to enable or disable LAN port loopback feature.

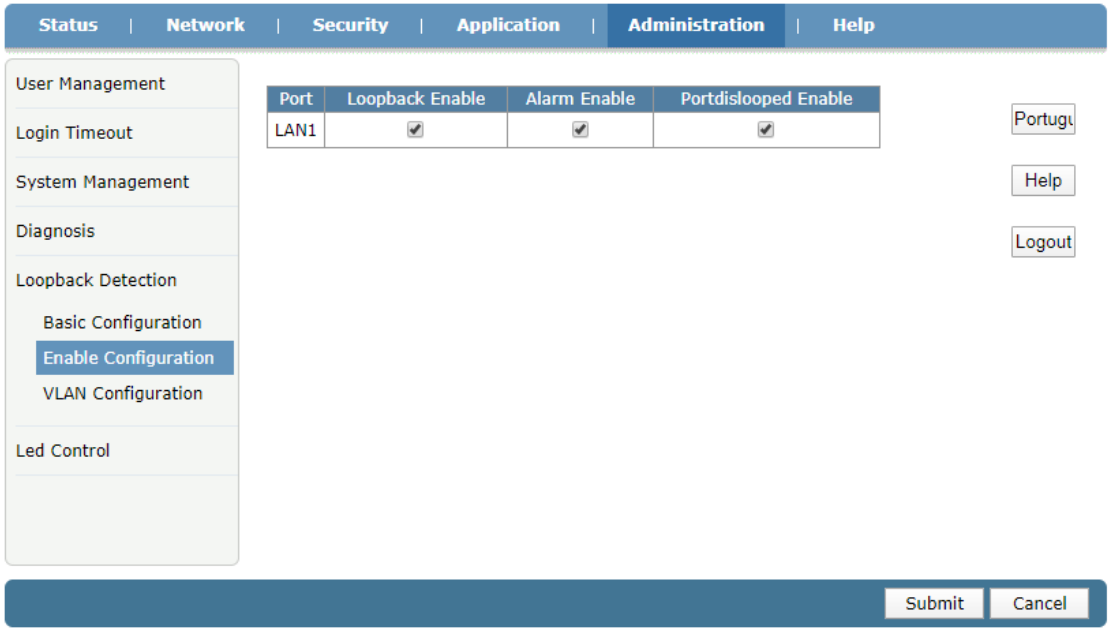


Figure 3-41: Enable Configuration

Parameter	**Illustration**
Loopback Enable	Enable or disable LAN port loopback detection.
Alarm Enable	Enable or disable LAN port loopback alarm.
Port dislooped Enable	Enable or disable LAN port automatic recovery.

3.6.5.3 VLAN Configuration

This page allows user to set VLAN of loopback detection packet. After added VLAN, ONU will send out loopback detection packets with the VLAN.

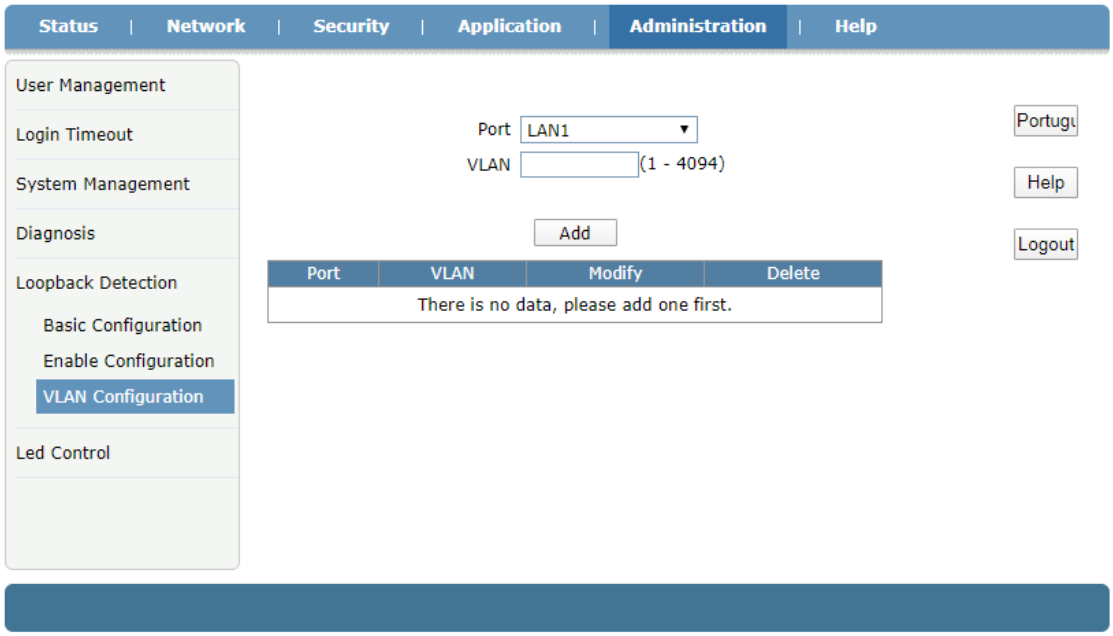


Figure 3-42: VLAN Configuration

3.6.6 LED Control

This page allows user to turn off or turn on the LED indicators.

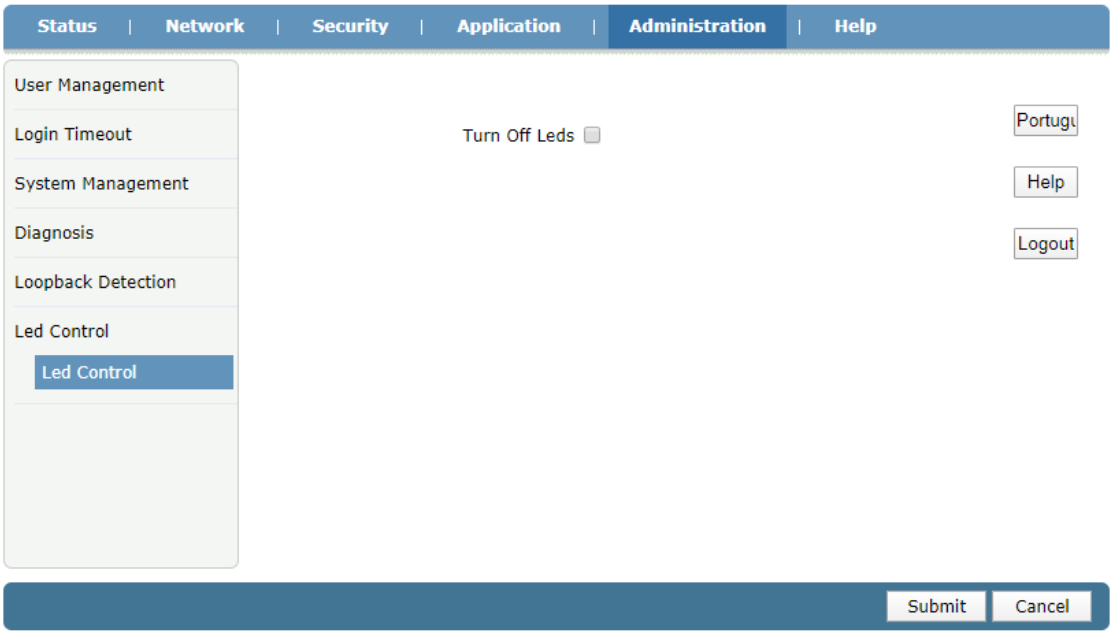


Figure 3-43: LED Control

3.7 Help

The Help information of ONU displays instruction and prompt of each web UI.

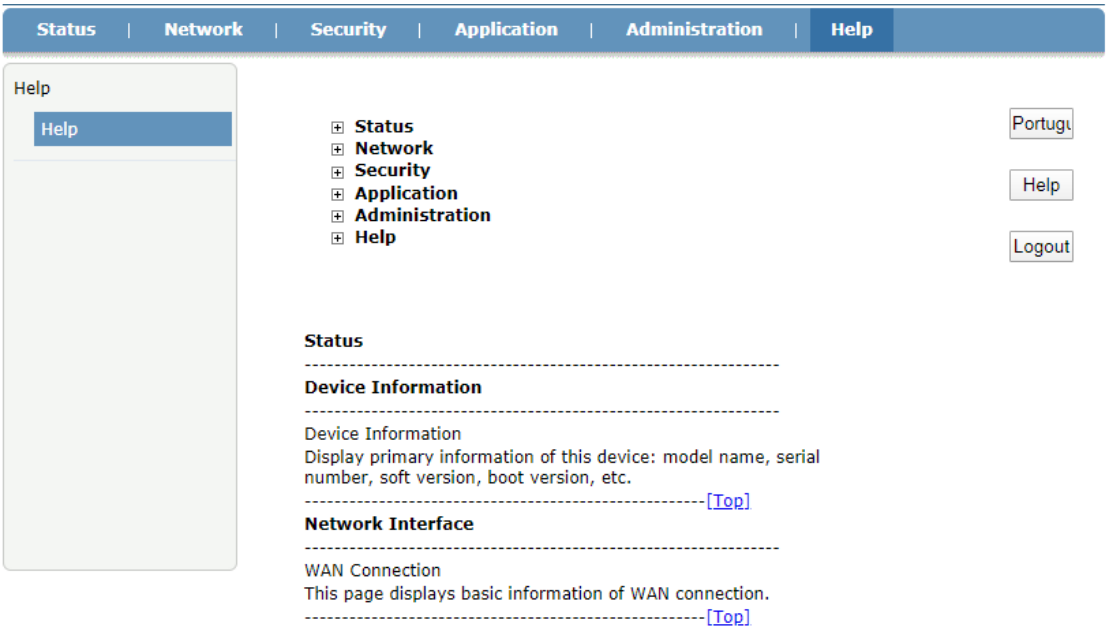


Figure 3-44: Help information

4 Technical Specifications

Item Name:	TONU 1000
Art. Number	308700
Interface	
PON	1 XPON port (EPON PX20+ & GPON Class B+) SC single mode, SC/UPC connector TX optical power: 0～+4dBm RX sensitivity: -27dBm Overload optical power: -3dBm (EPON) or - 8dBm (GPON) Transmission distance: 20KM, Wavelength: TX 1310nm, RX1490nm
LAN	1*GE, Auto-negotiation, RJ45 connector
Function data	
XPON mode	Dual mode, Auto-access to EPON/GPON OLT
Uplink mode	Bridging and Routing Mode
Abnormal protection	Detecting Rogue ONU, Hardware Dying Gasp
Firewall	DDOS, Filtering Based on ACL/MAC/URL
Product features	
Basic	Support MPCP discover & register Support authentication Mac/Loid/Mac + Loid Support Triple Churning Support DBA bandwidth Support auto-detecting, auto-configuration, and auto firmware upgrade Support SN/Psw/Loid/Loid+Psw authentication
Alarm	Support Dying Gasp, Port Loop Detect, Ethernet Port Los
LAN	Support Port rate limiting Support Loop detection Support Flow control Support Storm control
WLAN	Support VLAN tag mode Support VLAN transparent mode Support VLAN trunk mode (max 8 vlans) Support VLAN 1:1 translation mode (≤8 vlans)
Multicast	Support IGMPv1/v2/Snooping Max Multicast vlan 8, Max Multicast Group 64
Qos	Support 4 queues, SP and WRR, 802.1P
L3	Support IPv4/IPv6 Support DHCP/PPPOE/Static IP Support Static route Support NAT
Management	Support CTC OAM 2.0 and 2.1 Support ITUT984.x OMCI Support WEB Support TELNET Support CLI
Electrical	
Power adapter	DC 12V, 0.5A, external AC-DC power adaptor, ≤4W
Indicators	SYS, LINK/ACT, REG
General	
Operating condition	Operating temperature: -10 ~ +55°C Operating humidity: 5 ~ 95% (non-condensing)
Storage condition	Storage temperature: -40 ~ +70°C Storage humidity: 5~ 95% (non-condensing)
Packaging size (L x W x H) / Net weight	82x82x25mm / 0.85Kg

5 EU Declaration of Conformity

The product Declaration of Conformity can be downloaded from the product page at www.triax.com

6 Conditions of warranty

TRIAX UK warrants the product as being free from defects in material and workmanship for a period of 24 months starting from the date of production indicated on it. See note below.

If during this period of warranty, the product proves defective, under normal use, due to defective materials or workmanship, TRIAX UK, at its sole option, will repair or replace the product. Return the product to your local dealer for reparation.

THE WARRANTY IS APPLIED ONLY FOR DEFECTS IN MATERIAL AND WORKMANSHIP AND DOES NOT COVER DAMAGE RESULTING FROM:

- Misuse or use of the product outside of its specifications,
- Installation or use in a manner inconsistent with the technical or safety standards in force in the country where the product is used,
- Use of non-suitable accessories (power supply, adapters...),
- Installation in a defective system,
- External cause beyond the control of TRIAX UK such as drop, accidents, lightning, fire, …

THE WARRANTY IS NOT APPLIED IF

- Production date or serial number on the product is illegible, altered, deleted or removed.
- The product has been opened or repaired by a non-authorized person.

NOTE

Date of production can be found in the product's serial number code. The format is "YYWW1234567 (YEAR, WEEK, 123456 product unique number), e.g. 25320000020 = year 2025 week 32, product No.20 of this batch.

TRIAX UK | Treorchy | RCT | CF42 6DL | UK