

HL-4GXV-F-US

Halny GPON B+ SC/APC, 4-Ports 10/100/1000Base-TX + 1xPOTS (FXS) VoIP + Wi-Fi6 (AX1800)

USER MANUAL

1. Introduction

This user manual provides comprehensive instructions for the installation, operation, and maintenance of the Halny HL-4GXV-F GPON ONU. This device is designed to deliver high-speed internet, IPTV, and voice services over a Fiber to the Home (FTTH) network, leveraging WiFi 6 AX1800 technology, four Gigabit Ethernet ports, and an integrated VoIP FXS port.

Please read this manual thoroughly before using the device to ensure proper setup and optimal performance.

2. Product Features

- **Next-Generation WiFi 6 AX1800:** Dual-band 2x2 MU-MIMO technology ensures fast, reliable wireless connectivity with improved coverage and reduced interference.
- **High-Speed Wired Connectivity:** Equipped with 4 Gigabit Ethernet ports, providing stable and ultra-fast wired connections for multiple devices.
- **Triple-Play Ready:** Supports high-speed internet, IPTV, and VoIP services with an integrated FXS port for advanced telephony features like SIP and DTMF.
- **GPON Standards Compliance:** Fully adheres to ITU-T G.984.x and G.988 standards, ensuring seamless integration with gigabit passive optical networks.
- **Compact and Efficient Design:** Features a sleek form factor with internal dual-band antennas and a mode button for easy operation and flexible deployment.

3. Package Contents

Verify that all items are present in your package:

- Halny HL-4GXV-F GPON ONU Device
- Power Adapter
- Ethernet Cable
- Quick Start Guide / Safety Information

4. Physical Description

4.1 Front Panel



Figure 4.1: Front view of the Halny HL-4GXV-F GPON ONU with LED indicators.

The front panel features a series of LED indicators that provide real-time status of the device's operation. These indicators typically include Power, PON, LOS, LAN, WLAN, and VoIP status.

4.2 Rear Panel



Figure 4.2: Rear view of the Halny HL-4GXV-F GPON ONU with connectivity ports.

The rear panel provides all necessary connectivity ports:

- **Optical Fiber Port (SC/APC):** For connecting to the GPON network.
- **LAN Ports (4x Gigabit Ethernet):** For connecting wired devices such as computers, smart TVs, or gaming consoles.
- **POTS Port (FXS):** For connecting a standard analog telephone for VoIP services.
- **Power Port:** For connecting the provided power adapter.
- **Reset Button:** Used to restore factory default settings (typically requires pressing and holding for several seconds).
- **On/Off Button:** To power the device on or off.

5. Setup

Follow these steps to set up your Halny HL-4GXV-F GPON ONU:

1. **Step 1: Connect the Fiber Optic Cable.** Carefully connect the fiber optic cable from your service provider's optical network terminal (ONT) to the SC/APC optical port on the rear panel of the HL-4GXV-F. Ensure the connector is clean and properly seated.
2. **Step 2: Connect Wired Devices.** Connect your computers, smart TVs, or other network devices to the LAN ports (1-4) using Ethernet cables.
3. **Step 3: Connect Telephone (Optional).** If you are using VoIP services, connect your analog telephone to the POTS

(FXS) port.

- 4. **Step 4: Connect Power.** Connect the provided power adapter to the power port on the device, then plug the adapter into a power outlet. Press the On/Off button to power on the device.
- 5. **Step 5: Observe LED Indicators.** After powering on, observe the LED indicators on the front panel. The Power, PON, and LAN LEDs should illuminate, indicating successful connection and operation. The LOS (Loss of Signal) LED should be off.
- 6. **Step 6: Access Web Management Interface.** Once the device is operational, you can access its web management interface via a web browser on a connected computer. Refer to your service provider's documentation or the device's quick start guide for the default IP address and login credentials.

6. Operating the Device

6.1 LED Indicator Status

Indicator	Status	Description
Power	Solid Green	Device is powered on.
PON	Solid Green	Successfully registered with the OLT.
LOS	Solid Red	Loss of optical signal. Check fiber connection.
LAN (1-4)	Solid Green	Ethernet link established.
WLAN	Solid Green	Wi-Fi is enabled.
VoIP	Solid Green	VoIP service is active.

6.2 Wi-Fi Connectivity

To connect devices to the Wi-Fi network, locate the Wi-Fi network name (SSID) and password, usually found on a label on the device or in the quick start guide. Select the SSID on your wireless device and enter the password to connect.

6.3 VoIP Service

Ensure your analog telephone is connected to the POTS port. Once the VoIP LED is solid green, your phone service should be active. Dial numbers as you would with a standard landline phone.

7. Maintenance

Proper maintenance ensures the longevity and optimal performance of your device:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Do not use liquid cleaners or aerosols.
- **Ventilation:** Ensure the device is placed in a well-ventilated area, away from direct sunlight and heat sources, to prevent overheating.
- **Firmware Updates:** Periodically check with your service provider for available firmware updates. Updates can improve performance, add features, and enhance security.
- **Power Cycle:** If the device experiences minor issues, try power cycling it by unplugging the power adapter for 10 seconds and then plugging it back in.

8. Troubleshooting

If you encounter issues with your device, refer to the following common troubleshooting steps:

- **No Power:** Ensure the power adapter is securely connected to the device and the power outlet. Verify the power outlet is functional.
- **No Internet Connection:**
 - Check the PON LED. If it's off or red, there might be an issue with the fiber connection or service from your provider.
 - Check the LAN LED for your connected device. If it's off, ensure the Ethernet cable is properly connected.
 - Restart the device and your connected computer/router.
- **Wi-Fi Not Working:**
 - Ensure the WLAN LED is solid green.
 - Verify you are using the correct Wi-Fi SSID and password.
 - Try restarting the device.
- **No Dial Tone on Phone:**
 - Ensure the telephone is correctly plugged into the POTS port.
 - Check if the VoIP LED is solid green. If not, the VoIP service may not be provisioned or active.
- **Device Unresponsive (Factory Reset):** If the device is unresponsive or you forget login credentials, you can perform a factory reset by pressing and holding the Reset button for approximately 10 seconds while the device is powered on.
Note: This will erase all custom configurations.

If issues persist, contact your service provider for further assistance.

9. Specifications

Feature	Description
Model Number	HL-4GXV-F-US
Connectivity Technology	Optical Fiber Port
Wireless Communication Standard	802.11ac (Wi-Fi 6 AX1800)
Frequency Band Class	Dual-Band (2.4 GHz)
Ethernet Ports	4 x 10/100/1000Base-TX Gigabit Ethernet
POTS Ports	1 x FXS (VoIP)
GPON Compliance	ITU-T G.984.x, G.988
Manufacturer	Halny
Country of Origin	Poland

10. Warranty and Support

This device is covered by a standard manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation provided by your service provider or the manufacturer's official website.

For technical support, troubleshooting assistance, or service-related inquiries, please contact your internet service provider (ISP) or the point of purchase. They are equipped to provide support for your specific network configuration and device.

