ZTE中兴

ZXHN F601
GPON ONT
User Manual

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1 Safety Precautions

Safety Precautions

Usage Cautions

- Read all the safety cautions carefully before using the device.
- Only use the accessories included in the package, such as power supply adapter.
- Do not extend the power cord, otherwise the device will not work.
- The power supply voltage must meet the requirements of the device input voltage (The voltage fluctuation range is less than 10%).
- Keep the power plug clean and dry to prevent any risk of electric shock or other dangers.
- Disconnect all the cables during a lightning storm to prevent the device from damage.
- Power off and unplug the power plug when the device is not in use for a long time.
- Do not attempt to open the covers of the device. It is dangerous to do so when the device is powered ON.
- Do not directly stare at the optical interface to prevent any eye injuries.
- Power off and stop using the device under the conditions such as, abnormal sound, smoke, and strange smell. Contact the service provider for maintenance if the device is faulty.

📝 *Note:*

The users should read the usage cautions above carefully and will be responsible for any incident resulting from the violation of the above cautions.

Environment Requirements

- Ensure proper ventilation to the device. Place the device away from direct sunlight and never spill any liquid on the device.
- Do not place any object on the device to prevent any deformation or damage to the device.
- Do not place the device near any source of heat or water.
- Keep the device away from any household appliances with strong magnetic or electric fields, such as microwave oven and refrigerator.

Cleaning Requirements

■ Before cleaning, power off the device, and unplug all the cables connected to the device, such as power cable, optical fiber, and Ethernet cable.

■ Do not use any liquid or spray to clean the device. Use a soft dry cloth.

Environment Protection

■ Do not dispose the device or battery improperly.

■ Observe the local regulations about the equipment disposal or treatment.

2 Package Content

Please ensure the ZXHN F601 package contains the following items.

Item	Name	Quantity
	ZXHN F601 unit	**One**
	AC-DC power supply adapter	**One**
	RJ-45 Ethernet cable	**One**

One *ZXHN F601 GPON ONT User Manual*

If any of the items included in the package is incorrect, lost or damaged, please contact your service provider. If you need to replace the product, please keep the package and all the items in good condition.

3 Indicator

Figure 3-1 shows the indicators on the front panel of the ZXHN F601 unit.

Figure 3-1 Indicators of the ZXHN F601 unit

Table 3-1 describes the indicators on the front panel of the ZXHN F601 unit.

Table 3-1 Indicators on the Front Panel

Indicator	Status	Description
Power	Off	No power
	Solid green	Power on
PON	Off	The ONT registration fails or the system is not powered on.
	Solid green	The ONT registration is successful.
	Flashing green	The ONT is being registered.
LOS	Off	The ONT received optical power is normal.
	Solid red	The optical transmitter of the PON interface is powered off.
	Flashing red	The ONT received optical power is lower than the optical sensitivity of the receiver .
Alarm	Off	The device is not powered on or works normally.
	Solid red	The device is not started or there are mechanical faults.
	Flashing red	The version is being updated or downloaded.

Indicator	Status	Description
LAN	Off	The device is not powered on or the network link is not established.
	Solid green	The network link has been established but no data is being transmitted or received.
	Flashing green	Data is being transmitted or received.

4 Interface

Figure 4-1 shows the ZXHN F601 interfaces and buttons on the ZXHN F601 unit.
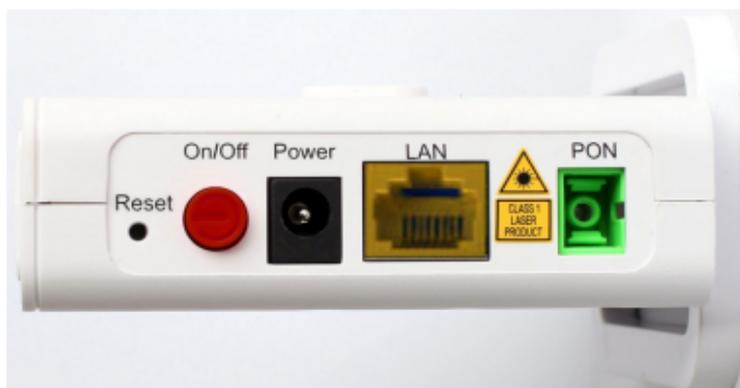
Figure 4-1 Interfaces and Buttons

Table 4-1 describes the interfaces and buttons on the ZXHN F601 unit.

Table 4-1 Descriptions of the Interfaces and Buttons

Interface and Button	Description
Reset	When the device is powered on, use a needle to press the RESET button for more than five seconds to restore the factory default settings.
On/Off	Power switch.
Power	12 V DC power connector.
LAN	RJ-45 Ethernet interface, connected to the computer.
PON	PON interface, connected to the network provider through the fiber.

5 Product Features

Interfaces

- GPON interface: GPON standard, SC/APC.
- Ethernet interface: One RJ-45 (10/100/1000 Base-T) interface, complying with IEEE 802.3, IEEE 802.3u and IEEE 802.3ab to support 10/100/1000 Mbps auto-negotiation.

Technical Features

ZXHN F601 has the following features.

- Broadband service access: Connected to Internet through the GPON access method.
- Ethernet service access: Providing GE Ethernet interface, connected to the Ethernet devices, such as the PC. Providing Internet access and IPTV services.
- Security: Providing multi-level authentication based on the device, user and service, and Providing the data channel encryption for safety.

- QoS: Providing QoS assurance to meet the requirements of various services offered by ISP (Internet Service Provider).
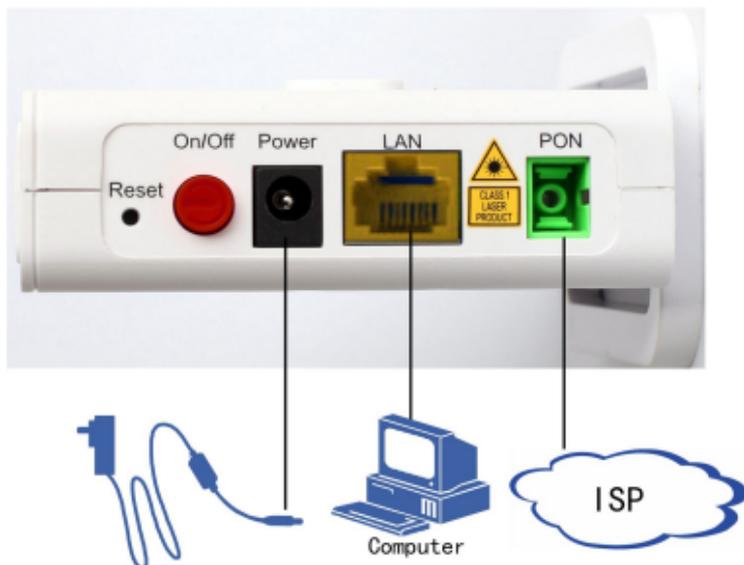- Network management: Providing multi-mode network management.

6 Technical Specification

Item	Specification
Dimension	110 mm × 96 mm × 53 mm (length × height × width)
Rated current	0.5 A
Rated voltage	12 V DC
Operation temperature	-0℃ – 40℃
Operation humidity	5% – 95%

7 Cable Connection

Figure 7-1 shows the devices that are connected to a ZXHN F601 device.

Figure 7-1 ZXHN F601 Cable Connection

After the cables are properly connected, press down the power switch on the side panel. When the power indicator on the front panel becomes solid on while the other indicators are normal, the services that the operator provides are available.

8 Troubleshooting

The Power indicator on the front panel is off after the power button is pressed.

The power adapter is not correctly connected to the device. Be sure to use the power adapter supplied with the device.

The LOS indicator is flashing red or solid red after the device is powered on.

- The PON fiber connection is abnormal.
- The optical fiber is not correctly connected to the ONT PON interface.
- The optical fiber is broken or damaged.
- If the indicator is solid red, please contact the service provider for maintenance.

The ALARM indicator is red after the device is powered on.

There are physical faults. Restart the device. If the alarm indicator is still red, please contact the service provider for maintenance.

The PON indicator on the front panel is off or flashing green after the device is powered on.

- The GPON link is not established.
- The ONT is not registered.
- Please contact the service provider for help.

The LAN indicator on the front panel is off after the device is powered on.

- The corresponding LAN link is not established.
- The Ethernet cable is not correctly connected to the LAN interface.
- The network device connected to the LAN interface is not powered on.

合格证
CERTIFICATION

检验员
CHECKER

日期
DATE

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