Indicator	Status	Status Description
	Running lights	The ONT is upgrading.
	All Solid Green	The ONT is being powered on and software is being loaded.

Interfaces and Buttons

Figure 4-2 shows the interfaces and buttons of the unit.

Figure 4-2 Interfaces and Buttons on the Side Panel

Table 4-2 describes the interfaces and buttons of the unit.

Table 4-2 Descriptions of the Interfaces and Buttons on the Side Panel

Interface / Button	Description
Wi-Fi	WLAN button. After pushing the Wi-Fi button no longer than 0.4 s, the WLAN function will be enabled or disabled.
WPS	Wi-Fi protection button. After pushing the WPS button for longer than 0.4 s, the WPS function will be enabled.
Phone	Supports one POTS port with RJ-11 connector.
10 GE	Supports 100 Mbps/1 Gbps/2.5 Gbps/5 Gbps/10 Gbps Base-T Ethernet ports with RJ-45 connector.
GE1–GE3	● Supports 10 Mbps/100 Mbps/1000 Mbps Base-T Ethernet ports with RJ-45 connector. ● Supports half/full duplex and flow control, auto negotiation or manual configuration. ● Supports MDI/MDIX auto-sensing.
USB	Standard USB 2.0 interface, connected to a USB storage device for file sharing, fast backup, and data restoration.
Power	12 V DC power connector.
On/Off	Power switch.
PON	SC/APC XGS-PON optical interface.
Reset*	Reset key used when the device is powered on and activated. ● By using a thin needle, press and hold the Reset button for 1 s to restart the device. The user's settings information will not be lost. ● By using a thin needle, press and hold the Reset button for more than 5 s to restore the factory settings.
ENERGY *	After pushing the button for longer than 3 s to switch to the light-saving mode. ● In light energy-saving mode, after pushing the button for longer than 3 s to switch to deep energy-saving mode.

Interface / Button	Description
(energy conservation)	● In deep power-saving mode, after pushing the button for longer than 3 s to return to normal mode.

- Energy conservation button is on the front side of the device.
- Reset button is at the bottom of the device.

5 Product Specification

For the product specifications of the WT H01, refer to Table 5-1.

Table 5-1 Product Specifications

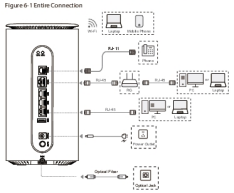
Technical Specifications	
Dimensions	215 mm (H) x 110 mm (W) x 110 mm (D)
Power adapter	Rated output: DC 12V, 2.0 A Input: AC 90 V~264 V, 50 Hz/60 Hz
Environment Requirements	
Operation temperature	0 °C to 40 °C
Operation humidity	5% - 95% (non-condensing)
Wi-Fi Radio Specifications	
Radio Frequencies	Maximum Output Power
Wi-Fi 2.4 GHz band: 2400 MHz – 2483.5 MHz	EIRP: (19 ± 1) dBm
Wi-Fi 5 GHz band: 5150 MHz – 5350 MHz	EIRP: (22 ± 1) dBm
Wi-Fi 5 GHz band: 5470 MHz – 5725 MHz	EIRP: (29 ± 1) dBm

6 Cable Connection

The device provides home users and small-size business users with the XGS-PON uplink optical access and internal networking functions through 10GE/GE interface or a Wi-Fi interface.

Figure 6-1 shows the devices that are connected to the WT H01 device.

Figure 6-1 Entire Connection



After the power indicator is lit and other indicators operate properly, services of the carrier can be used.

The factors affecting the wireless network coverage range include the location of the product, distance between the product and a wireless terminal, number of obstacles, obstacle material and density, and interference source. It is recommended that you place the product in accordance with the following principles to maximize the strength of wireless signals.

- The product should be far away from the objects affecting wireless signal propagation, for example, an object with a high reflectivity such as a metallic object or a mirror.
- The product should be far away from an electrical appliance with a strong magnetic or electric field, for example, a microwave oven, a refrigerator, a wireless router, a cordless phone, or a Bluetooth product.
- The product should be installed on the same floor as the applied area.
- Do not put other objects on the product. Try to reduce the number of obstacles between the product and a wireless terminal.
- Vertically place the product in the middle of the applied area and do not put it in a corner.The recommended height is 1.2 m to 1.5 m.

7 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 Phone indicator on the front panel is off after the device is powered on.

The telephone function is abnormal. Please contact the service provider for help.

WT H01
XGS-PON ONT
User Manual

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WTYD
QC PASS

WT H01
XGS-PON ONT
User Manual

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Users may visit the technical support website http://support.ahwt.com.cn to inquire for related information.
The ultimate right to interpret this product resides in WTYD.

1 Safety Precautions

Note

Before using the device, read the following safety precautions. WTYD bears no liability to the consequences incurred by violation of the safety instructions.

Usage Cautions

- 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.

Environment Requirements

- Ensure proper ventilation to the device. Place the device away from direct sunlight.
- Keep the device ventilated and dry. 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.

Restrictions in the 5 GHz Band

According to Article 10 (10) of Directive 2014/53/EU, the packaging shows that this radio equipment will be subject to some restrictions when placed on the market in Belgium (BE), Bulgaria (BG), the Czech Republic (CZ), Denmark (DK), Germany (DE), Estonia (EE), Ireland (IE), Greece (EL), Spain (ES), France (FR), Croatia (HR), Italy (IT), Cyprus (CY), Latvia (LV), Lithuania (LT), Luxembourg (LU), Hungary (HU), Malta (MT), Netherlands (NL), Austria (AT), Poland (PL), Portugal (PT), Romania (RO), Slovenia (SI), Slovakia (SK), Finland (FI), Sweden (SE), Turkey (TR), Norway (NO), Switzerland (CH), Iceland (IS), and Liechtenstein (LI).

The WLAN function for this device is restricted to indoor use only when operating in the 5150 MHz-5350 MHz frequency range.

RF Exposure Information

The Maximum Permissible Exposure (MPE) level is calculated based on a distance of d=20 cm between the device and the human body. To maintain compliance with the RF exposure requirement, a separation distance of 20 cm between the device and the human should be maintained.

EU Declaration of Conformity

Hereby, WTYD declares that the radio equipment type WT H01 is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following Internet address:
http://support.ahwt.com.cn/support/ce/EU

Environmental Information

The equipment you purchased has required the extraction and use of natural resources for its production. It may contain substances that are hazardous to people' s health and to the environment. To avoid putting such substances into our environment and to reduce pressure on our natural resources, we ask that you reuse or recycle your end-of-life equipment by using an accredited electronics take-back system.

The symbols below indicate that this product should be reused or recycled and not simply discarded. Please locate and use an appropriate reuse and recycling site.

If you need more information on collection, reuse and recycling systems, contact your local or regional waste administration. You may also contact your equipment provider for more information on the environmental performances of these products.

2 Package List

Please ensure the WT H01 contains the Table 2-1 items.

Table 2-1 Package Content

Name	Quantity
WT H01 unit	1
AC-DC power supply adapter	1
RJ-45 Ethernet Cable	1

Note

- The list is only for reference. The actual contents may vary from the list.
- If you need to replace the product, please keep the package and all the items in good condition.

3 Product Features

Interfaces

- PON interface: XGS-PON standard, SC/APC, comply with ITU-T G.9807 and ITU-T G.988 standards.
- Ethernet Interface: One 100 Mbps/1 Gbps/2.5 Gbps/5 Gbps/10 Gbps interface and three auto-sensing 100 Mbps/1000 Mbps interfaces in compliance with the IEEE 802.3 standard.
- WLAN Interface: Supports 4×4 802.11 b/g/n/ax/be Wi-Fi @2.4GHz & 4×4 802.11a/n/ac/ax/be Wi-Fi @5GHz Dual-band concurrent Wi-Fi with up to 7200 Mbps and excellent indoor coverage.
- Phone interface: One POTS port with RJ-11 connector.
- USB interface: Standard USB 2.0 interface.

Technical Features

- Broadband service access: Connected to Internet through the XGS-PON access method.
- Ethernet service access: Provides Ethernet interfaces, connected to the Ethernet devices, such as the user PC. Provides the Internet access and IPTV services.
- Phone service access: Supports SIP protocol.
- WLAN: Users can connect to the WT H01 through WLAN.
- Data sharing, backup, and restoration: Provides the USB 2.0 interface connected to a USB storage device for file sharing, fast backup, and data restoration.
- Security: Provides multi-level authentication based on the device, user and service, and provides the data channel encryption for safety.
- QoS: Provides QoS services meeting the requirements of various services for the local devices and network.
- Network management: Provides multi-mode network management.

4 Hardware Description

Indicators

Figure 4-1 shows the indicators of the unit.

Figure 4-1 Indicators on the Front Panel

Table 4-1 describes the indicators of the unit.

Table 4-1 Indicators on the Front Panel

Indicator	Status	Status Description
ENERGY (energy conservation)	Off	Options: ● The ONT is powered off. ● The energy-saving mode of the ONT is not enabled.
	Solid Green	The ONT is working in light energy-saving mode.
	Flashing slowly green	The ONT is working in deep energy-saving mode.
	Flashing fast green	In the process of switching different energy saving modes.
(Internet)	Off	Options: ● The ONT is powered off. ● The ONT is working in light energy-saving mode. ● The ONT is working in deep energy-saving mode.
	Solid green	Options: The device is being powered on and self-tested. The Internet link of the device is established.
	Flashing slowly green	Options: ● The optical fiber link of the ONT is being connected. ● The Internet connection of the ONT is being established.
	Flashing fast green	Data is being transmitted over the Internet link.
	Solid red	The ONT is not connected successfully.
	Flashing red	Options: ● The optical fiber is not plugged in. ● The optical fiber is not receiving an optical signal. ● The optical path is not available.
(Phone)	Off	Options: ● The ONT is powered off. ● The ONT is working in light energy-saving mode. ● The ONT is working in deep energy-saving mode. ● The voice service is not enabled. ● The ONT is unable to register on the soft switch/ IMS.
	Solid Green	Options: ● The ONT is powered on and the self-test is being started.
		● The voice service is enabled and registered in the IMS.
	Flashing slowly green	The ONT is registering with the IMS.
	Flashing fast green	Options: ● The ONT is calling or being called. ● The ONT is on a call.
(Wi-Fi)	Off	Options: ● The ONT is powered off. ● The ONT is working in light energy-saving mode. ● The ONT is working in deep energy-saving mode. ● The wireless interface is disabled. ● WPS negotiation fails.
	Solid Green	Options: ● The ONT is powered on and the self-test is being started. ● The wireless interface is enabled but no data transmission is available. ● WPS negotiation succeeds.
	Flashing slowly green	Options: ● WPS negotiation succeeds, and the ONT is being paired. ● The Wi-Fi is being started. ● Wi-Fi is in the process of auto-optimization.
	Flashing fast green	The wireless interface is enabled and data transmission is available.