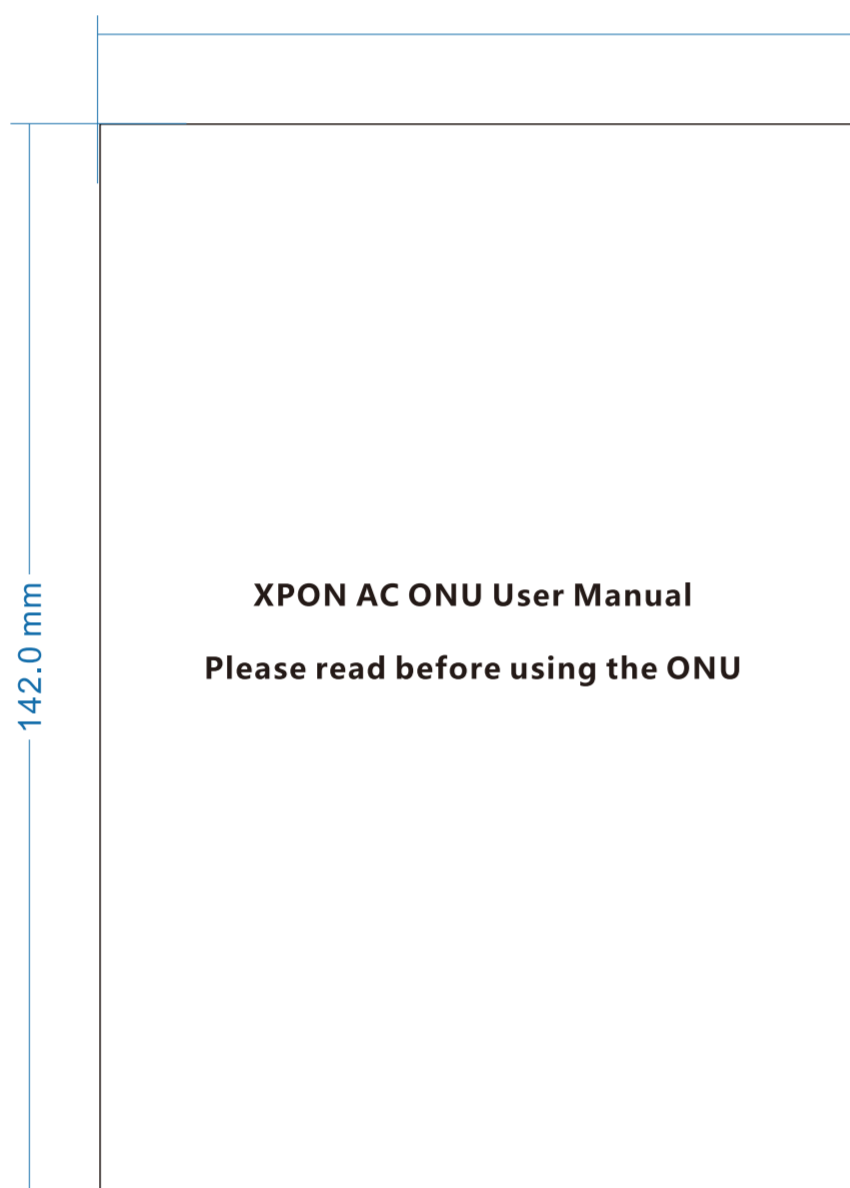
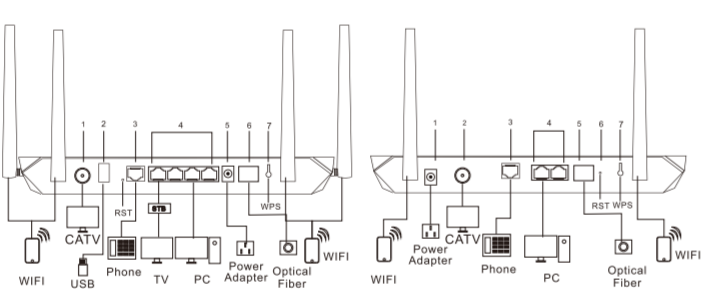
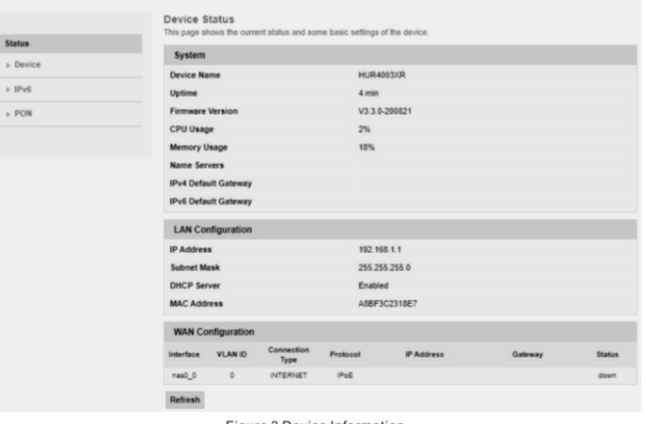

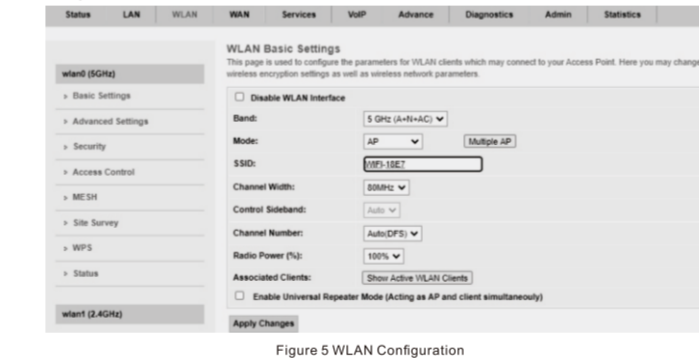

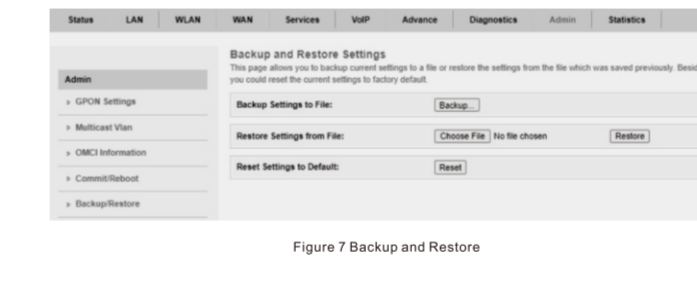
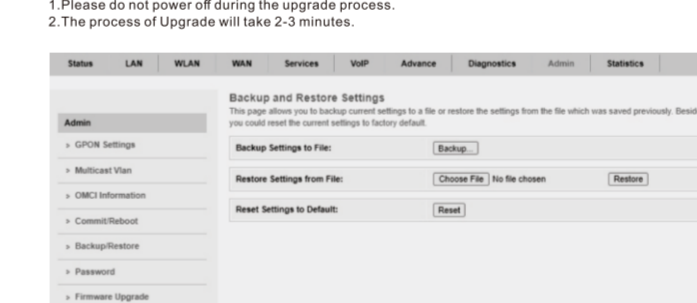

 海荻威光电科技有限公司 FIBER HDV Photoelectron Technology Co.,LTD		图号	AI20220420-2	料号	
客户	HDV (中性)	版本	A1	图例	1:1
尺寸	单页100*142mm,展开500*142mm	材质	80g双胶纸		
工艺	双面五折页	应用产品	9607C双频ONU		
备注	文本清晰, 无断笔, 无污迹				

 <p>500.0 mm</p> <p>142.0 mm</p> <p>XPON AC ONU User Manual</p> <p>Please read before using the ONU</p>	<p>XPON AC ONU User Manual</p> <p>CONTENTS</p> <p>Chapter 1: Overview 01</p> <p>1.1 Product Description 01</p> <p>1.2 Product Feature and model list 01</p> <p>1.3 Characteristics 01</p> <p>1.4 Technical Parameters 01</p> <p>1.5 Panel LED Description 02</p> <p>1.6 Packing List 03</p> <p>Chapter 2: Installation 03</p> <p>2.1 Equipment Installation 03</p> <p>2.2 Installation Requirements 03</p> <p>2.3 Environment requirements 03</p> <p>2.4 Cable Connection 04</p> <p>Chapter 3: Web Management 04</p> <p>3.1 Default configuration 04</p> <p>3.2 Basic Configuration 05</p> <p>Chapter 4: Troubleshooting 08</p>	<p>XPON AC ONU User Manual</p> <p>Chapter 1: Overview</p> <p>1.1 Product Description</p> <p>The XPON AC ONU is designed as HGU (Home Gateway Unit) in different FTTH solutions. The carrier-class FTTH application provides data service access, USB storage, VoIP and CATV services. The ONU is based on mature and stable, cost-effective XPON technology. It can switch automatically with EPON and GPON when it access to the EPON OLT or GPON OLT. The ONU adopts high reliability, easy management, configuration flexibility and good quality of service (QoS) guarantees to meet the technical performance of the module of China Telecom EPON CE2.0 and GPON Standard of ITU-T G.984.2. And the ONU is designed by Fiberch, China's No.1 PON.</p> <p>1.2 Product Feature and model list</p> <table border="1"> <tr> <th>Model</th> <th>Access</th> <th>Access</th> <th>Access</th> <th>Access</th> <th>Access</th> <th>Access</th> <th>Access</th> <th>Access</th> <th>Access</th> </tr> <tr> <td>HUR151R-HUR151R</td> <td>EPON</td> <td>GPON</td> <td>GPON</td> <td>GPON</td> <td>GPON</td> <td>GPON</td> <td>GPON</td> <td>GPON</td> <td>GPON</td> </tr> <tr> <td>HUR151R-HUR151R</td> <td>EPON</td> <td>GPON</td> <td>GPON</td> <td>GPON</td> <td>GPON</td> <td>GPON</td> <td>GPON</td> <td>GPON</td> <td>GPON</td> </tr> </table> <p>1.3 Characteristics</p> <ul style="list-style-type: none"> Support EPON/GPON mode and switch mode automatically Support Route mode for PPPoE/Static IP and Bridge Mode Support SIP Trunking (SIP Trunk and SIP) Support CATV interface for Video Service Support SIP control for VoIP Service(Optional) Support TR069 remote configuration and maintenance Specialized design for system breakdown prevention to maintain stable system <p>1.4 Technical Parameters</p> <table border="1"> <thead> <tr> <th>Technical Item</th> <th>Details</th> </tr> </thead> <tbody> <tr> <td>PON Interface</td> <td>1. PON: B09-Class B+ (Class C-) 2. Wavelength: 1490nm/1550nm 3. Transmitting optical power: +15~+18dBm 4. RX: 1310nm, BK: 1490nm</td> </tr> <tr> <td>Optical Interface</td> <td>SC/APC/BNC Connector(Optional)</td> </tr> <tr> <td>POTS Interface</td> <td>Support G.711/G.723/G.726/G.729 code Support 2.0T, 4.0T, 7.0T Fax mode, 0.1T/0.2T Fax Line testing according to GR-909</td> </tr> </tbody> </table>	Model	Access	Access	Access	Access	Access	Access	Access	Access	Access	HUR151R-HUR151R	EPON	GPON	GPON	GPON	GPON	GPON	GPON	GPON	GPON	HUR151R-HUR151R	EPON	GPON	GPON	GPON	GPON	GPON	GPON	GPON	GPON	Technical Item	Details	PON Interface	1. PON: B09-Class B+ (Class C-) 2. Wavelength: 1490nm/1550nm 3. Transmitting optical power: +15~+18dBm 4. RX: 1310nm, BK: 1490nm	Optical Interface	SC/APC/BNC Connector(Optional)	POTS Interface	Support G.711/G.723/G.726/G.729 code Support 2.0T, 4.0T, 7.0T Fax mode, 0.1T/0.2T Fax Line testing according to GR-909	<p>XPON AC ONU User Manual</p> <p>LAN Interface</p> <p>2x RJ45 (10/100Mbps) and 1x RJ45 (10/100Mbps) Ethernet interface, Full Duplex (Auto-negotiation)</p> <p>USB Interface</p> <p>Standard USB 2.0</p> <p>Compliant with IEEE 802.11g/n</p> <p>2.4GHz Operating Frequency: 2.402-2.4835GHz</p> <p>5GHz Operating Frequency: 5.120-5.250GHz</p> <p>Support MIMO, Rate up to 300Mbps, Support MU-MIMO, rate up to 600Mbps</p> <p>2T2R, 2 external antenna 5dB</p> <p>Support multiple SSID</p> <p>Channel Auto</p> <p>Modulation type: QSSS, CCK and OFDM</p> <p>TX Power: 11~20dBm (11~20dBm)</p> <p>Wireless</p> <p>WLAN: RF Frequency range: 47~1000MHz, Receiving wavelength: 1550m-1600m</p> <p>45dBm range, 11~15dBm, RF output power: 20dBm, WDR: 400000:1500m</p> <p>2 For Function of Reset, WLAN</p> <p>Temperature: 0°C~40°C</p> <p>Humidity: 10%~90%, Non-condensing</p> <p>Operating Condition</p> <p>Temperature: -20°C~40°C</p> <p>Humidity: 10%~90%, Non-condensing</p> <p>Storing Condition</p> <p>Humidity: 10%~90%, Non-condensing</p> <p>Power Supply</p> <p>DC 12V/1A</p> <p>Power Consumption</p> <p><100W</p> <p>Dimension: 295x220x30mm (290/220/30mm(L x W x H))</p> <p>Net Weight: 60/200g</p> <p>Table 2: Technical parameters</p> <p>1.5 Panel LED Description</p> <table border="1"> <thead> <tr> <th>LED</th> <th>Status</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>POWER</td> <td>On</td> <td>The device is powered up.</td> </tr> <tr> <td></td> <td>Off</td> <td>The device is powered down.</td> </tr> <tr> <td>PON</td> <td>On</td> <td>The device has registered to the PON system.</td> </tr> <tr> <td></td> <td>Blink</td> <td>The device is registering to the PON system.</td> </tr> <tr> <td></td> <td>Off</td> <td>The device registration is incorrect.</td> </tr> <tr> <td>LOS</td> <td>Blink</td> <td>The device does not receive optical signals.</td> </tr> <tr> <td></td> <td>Off</td> <td>The device has received optical signal.</td> </tr> <tr> <td>WiFi 2.4G</td> <td>On</td> <td>The WiFi interface is up.</td> </tr> <tr> <td></td> <td>Blink</td> <td>The WiFi interface is up.</td> </tr> <tr> <td></td> <td>Off</td> <td>The WiFi interface is down.</td> </tr> <tr> <td>WiFi 5G</td> <td>On</td> <td>The WiFi interface is up.</td> </tr> <tr> <td></td> <td>Blink</td> <td>The WiFi interface is sending or/and receiving data (ACT).</td> </tr> <tr> <td></td> <td>Off</td> <td>The WiFi interface is down.</td> </tr> <tr> <td>FAXS</td> <td>Blink</td> <td>Phone has registered and data transmission (ACT).</td> </tr> <tr> <td></td> <td>Off</td> <td>Phone registration is incorrect.</td> </tr> </tbody> </table> <p>Table 3: Panel Light on</p>	LED	Status	Description	POWER	On	The device is powered up.		Off	The device is powered down.	PON	On	The device has registered to the PON system.		Blink	The device is registering to the PON system.		Off	The device registration is incorrect.	LOS	Blink	The device does not receive optical signals.		Off	The device has received optical signal.	WiFi 2.4G	On	The WiFi interface is up.		Blink	The WiFi interface is up.		Off	The WiFi interface is down.	WiFi 5G	On	The WiFi interface is up.		Blink	The WiFi interface is sending or/and receiving data (ACT).		Off	The WiFi interface is down.	FAXS	Blink	Phone has registered and data transmission (ACT).		Off	Phone registration is incorrect.	<p>XPON AC ONU User Manual</p> <p>LAN1~LAN4</p> <table border="1"> <tr> <td>On</td> <td>Ethernet connected properly (LINK).</td> </tr> <tr> <td>Blink</td> <td>Ethernet is sending or/and receiving data (ACT).</td> </tr> <tr> <td>Off</td> <td>Ethernet connection exception or not connected.</td> </tr> </table> <p>WLAN</p> <table border="1"> <tr> <td>On</td> <td>Input optical power is higher than 30dbm or lower than -15dbm</td> </tr> <tr> <td>Off</td> <td>Input optical power is between -15dbm and 30dbm</td> </tr> <tr> <td>Blink</td> <td>Input optical power is between -15dbm and 30dbm</td> </tr> <tr> <td>Off</td> <td>Input optical power is higher than 30dbm or lower than -15dbm</td> </tr> </table> <p>1.6 Packing List</p> <p>After opening the product packaging, please carefully check the items in the following table. If they are inconsistent with the reality, please contact the supplier.</p> <table border="1"> <thead> <tr> <th>Contents</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td>ONU</td> <td>1PCS</td> </tr> <tr> <td>Power adapter</td> <td>1PCS</td> </tr> <tr> <td>User manual</td> <td>1PCS</td> </tr> </tbody> </table> <p>Table 4: Packing List</p> <p>Chapter 2: Installation</p> <p>ONU product is a line configuration device equipment. Site equipment installation is relatively simple. Simply install the device on a specified place, connecting the upstream fiber subscriber line connections, connect the power cable. Actual operation is as follows:</p> <p>2.1.1 Installed on the desktop</p> <p>Reaction: After the device is installed on a desktop, this installation is relatively simple, you can observe the following operation:</p> <ul style="list-style-type: none"> Remove the smooth workbench. Around the device enough space for heat dissipation. Do not place objects on the device. <p>2.1.2 Mounted on the wall</p> <ul style="list-style-type: none"> Observe ONU equipment chassis two ovalform recess, in accordance with the position of the groove, instead two screws in the wall. The original intended two mounting screws gently snap into recesses aligned. Slowly let go, so that the device under the support of the screw hanging on the wall. <p>2.2 Installation Requirements</p> <p>To avoid equipment damage caused by improper use and personal injury, please observe the following precautions:</p> <ul style="list-style-type: none"> Do not place the device near water or in damp places, in order to prevent water or moisture from entering the device. Do not place the device in an unstable place, avoid falling damage to equipment. Make sure that the supply voltage of the device matches the required voltage value. Do not open the equipment chassis without permission. Unplug before cleaning the power plug, prohibit the use of liquid cleaning. <p>2.3 Environment requirements</p> <p>ONU equipment must be installed in the interior, and to ensure the following conditions:</p> <ul style="list-style-type: none"> Confirmation of the ONU installation site sufficient space to facilitate cooling machine. ONU suitable operating temperature of 0°C ~ 50°C, humidity: 10% to 90%. 	On	Ethernet connected properly (LINK).	Blink	Ethernet is sending or/and receiving data (ACT).	Off	Ethernet connection exception or not connected.	On	Input optical power is higher than 30dbm or lower than -15dbm	Off	Input optical power is between -15dbm and 30dbm	Blink	Input optical power is between -15dbm and 30dbm	Off	Input optical power is higher than 30dbm or lower than -15dbm	Contents	Quantity	ONU	1PCS	Power adapter	1PCS	User manual	1PCS
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<p>XPON AC ONU User Manual</p> <p>2.4 Cable Connection</p>  <p>Figure 1 Cable Connection</p> <p>Chapter 3: Web Management</p> <p>AC ONU provides simple Web management function, including Device Information, LAN/WLAN/WAN Settings, Commit/Reboot, Backup/Restore, Firmware upgrade, CATV etc.</p> <p>3.1 Login Webpage</p> <p>Open browser with 192.168.1.1 and input admin</p> <p>Input username and password</p> <p>UserName: admin Password: admin</p> <p>Figure 2 Web Login</p> <p>Notes: About WEB login information, please see the label at the bottom.</p>	<p>XPON AC ONU User Manual</p> <p>3.2 Basic Configuration</p> <p>Device status Menu displays the current device basic information. Including Device Name, Firmware Version, Mac address, LAN/WAN Configuration.</p> <p>Note: All the device information may be changed, the actual device shall prevail.</p>  <p>Figure 3 Device Information</p> <p>PON WAN Menu allows users to add/delete/modify WAN connections according to local network application.</p>  <p>Figure 4 PON WAN Configuration</p> <p>WLAN Configuration Menu displays the current device WiFi basic information. Including SSID Name, SSID Enable, WiFi Encryption etc.. User could modify the SSID Name and Password.</p> <p>Note: After modify WLAN configuration, users usually don't need to reboot, just take a while for WLAN configuration to take effect.</p>  <p>Figure 5 WLAN Configuration</p> <p>Commit and Reboot Menu allows users to save the configuration and reboot the device.</p>  <p>Figure 6 Commit and Reboot</p>	<p>XPON AC ONU User Manual</p> <p>Backup and Restore</p> <p>Backup and Restore Menu allows users to export and import the onu configuration file. It also supports to make the device factory reset. User click "Reset" button.</p> <p>Note: About REST button, please press REST button over 10 seconds and then release button, after that the device would reboot.</p>  <p>Figure 7 Backup and Restore</p> <p>Firmware Upgrade Menu allows users to update the software of the device. Please click the "Choose File" button to select the firmware and then click the "Upgrade" button to update.</p> <p>Note: Please do not power off during the upgrade process.</p> <p>Note: About REST button, please press REST button over 10 seconds and then release button, after that the device would reboot.</p>  <p>Figure 8 Firmware and Upgrade</p> <p>CATV Menu allows displays the current CATV information, it allows user to set the Output level Attenuation and RF Switch status.</p>  <p>Figure 9 CATV Information</p>	<p>XPON AC ONU User Manual</p> <p>Chapter 4: Troubleshooting</p> <p>1. After power, why are all the lights bright? Reasons: 1) Power connection errors; 2) Power is not normal; Solution: 1) Check that the power cable is connected. 2) The rear panel of the power supply is turned on. Why does Led of LAN not light? Reasons: 1) Network cable is damaged or loose connection. 2) Cable type errors. 3) Long time inside the allowable range. Solution: 1) Replace the network cable, and pay attention to the standard Ethernet cable must be parallel or crossing lines. 2) Center office equipment failure. 3) Fiber failure. 4) Why does Led of PON flashes instead of always on? Reasons: 1) Fiber optic connector is loose. 2) Central office equipment failure. 3) Fiber optic connector is bad. Solution: 1) Inspect fiber is connected properly, is connected to the correct connector, optical power is normal. 2) Contact your operator. Why does Led of PON flashes instead of always on? Reasons: 1) Power supply is not working properly. 2) The equipment from overheating. Solution: 1) Power supply stop working after working for a long time? Reasons: 1) Check if there is contact with abnormal voltage is too high or too low; 2) Check the ambient conditions, vents are routine maintenance.</p>
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