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<p><b>Interface/Buttons</b></p> <table border="1"> <tr> <th>Interface/Buttons</th> <th>Description</th> </tr> <tr> <td>BBU(optional)</td> <td>Standby power supply interface, connected to a standby power supply through a dedicated cable.</td> </tr> <tr> <td>Line</td> <td>PON interface.</td> </tr> </table> <p><b>5 Product Features</b></p> <p><b>Interfaces</b></p> <ul style="list-style-type: none"> <li>GPON interface: GPON standard, SCAPC, comply with ITU-T G.984.1 and G.984.2 standards.</li> <li>Ethernet interface: auto-sensing RJ-45 interface in compliance with IEEE 802.3 and IEEE 802.3x.</li> <li>Phone interface: RJ-11.</li> <li>WLAN interface: complies with IEEE 802.11ac, IEEE 802.11b, IEEE 802.11g and IEEE 802.11n.</li> <li>USB interface: standard USB 2.0 interface.</li> </ul> <p><b>Technical Features</b></p> <ul style="list-style-type: none"> <li>Broadband service access: Connected to Internet through the GPON access method.</li> <li>Ethernet service access: Provides Ethernet interfaces, connected to the Ethernet devices, such as the user PC. Provides the Internet access and IPTV services.</li> <li>Phone service access: Supports SIP, H.248 and MGCP protocol.</li> <li>WLAN: Users can connect to the ZXHN F670E through WLAN.</li> <li>Data sharing, backup, and restoration: provides the USB 2.0 interface connected to a USB storage device for file sharing, file backup, and data restoration.</li> <li>Security: Provides multi-level authentication based on the device, user and service, and provides the data channel encryption for safety.</li> <li>QoS: Provides QoS services meeting the requirements of various services for the local devices and network.</li> <li>Network management: Provides multi-mode network management.</li> </ul> <p><b>6 Product Specification</b></p> <p>For the product specifications of the ZXHN F670E, refer to Table 6-1.</p> <table border="1"> <tr> <td colspan="2"><b>Table 6-1 Product Specifications</b></td> </tr> <tr> <td>Technical Specifications</td> <td>220 mm x 160 mm x 28 mm (Height x Width x Depth, antenna unextended)</td> </tr> <tr> <td>Dimension</td> <td></td> </tr> <tr> <td>Certification</td> <td>CE Certification and Wi-Fi Certification</td> </tr> </table>	Interface/Buttons	Description	BBU(optional)	Standby power supply interface, connected to a standby power supply through a dedicated cable.	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Be sure to use the power adapter supplied with the device.</li> <li>The LOS indicator is flashing red or solid red after the device is powered on.</li> <li>The optical fiber is not correctly connected to the ONT PON interface.</li> <li>The optical fiber is broken or damaged.</li> <li>The PON indicator is solid red or keeps flashing, please contact the service provider for maintenance.</li> <li>The PON indicator on the front panel is off or flashing green after the device is powered on.</li> <li>The GPON link is not established.</li> <li>The ONT is not registered.</li> <li>Please contact the service provider for help.</li> </ul>	Adapter brand and model	Huawei RD121100-CSS-10G	Input	100V~240V AC/50/60Hz	Output	DC 12 V, 1.5 A	Operation temperature	0 °C ~ 40 °C (32 °F ~ 104 °F)	Operation humidity	5% ~ 95%(non-condensing)	Software version	V1.0.10	<p><b>The green LAN indicator on the front panel is off after the device is powered on.</b></p> <ul style="list-style-type: none"> <li>The corresponding LAN link is not established.</li> <li>The Ethernet cable is not correctly connected to the LAN interface.</li> <li>The network device connected to the LAN interface is not powered on.</li> <li>The Phone indicator on the front panel is off after the device is powered on.</li> <li>The telephone function is abnormal. Please contact the service provider for help.</li> </ul> <p><b>FCC Statement</b></p> <p>This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:</p> <ul style="list-style-type: none"> <li>Reorient or relocate the receiving antenna.</li> <li>Increase the separation between the equipment and receiver.</li> <li>Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.</li> <li>Consult the dealer or an experienced radio/TV technician for help.</li> </ul> <p><b>FCC Radiation Exposure Statement</b></p> <p>This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be collocated or operating in conjunction with any other antenna or transmitter. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:</p> <ol style="list-style-type: none"> <li>(1) This device may not cause harmful interference, and</li> <li>(2) This device must accept any interference received, including interference that may cause undesired operation.</li> </ol> <p><b>Caution!</b></p> <p>Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.</p> <p>When this device operates in 5150-5250 MHz band, it should for indoor use only.</p>	<p><b>ZTE</b> Tomorrow never waits.</p> <p><b>ZXHN F670E</b> GPON ONT User Manual</p> <p><b>CERTIFICATION</b></p> <table border="1"> <tr> <td>CHECKER</td> <td></td> </tr> <tr> <td>DATE</td> <td></td> </tr> <tr> <td>ZTE</td> <td></td> </tr> </table> <p>Address: No. 55, Hi-tech Road South, Shenzhen, P.R.China Postcode: 518057 Tel: +86-755-26771900 URL: http://support.zte.com.cn E-mail: support@zte.com.cn</p> <p>ZTE CORPORATION</p>	CHECKER		DATE		ZTE	
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<p><b>ZXHN F670E</b> GPON ONT User Manual</p> <p>Manual No: SJ-20151016110046-002 Edition Time: 2017-06-07(R1.0)</p> <p><b>LEGAL INFORMATION</b></p> <p>Copyright © 2017 ZTE CORPORATION. The contents of this document are protected by copyright laws and international treaties. Any reproduction or distribution of this document or any portion of this document, in any form by any means, without the prior written consent of ZTE CORPORATION is prohibited. Additionally, the contents of this document are protected by contractual confidentiality obligations.</p> <p>All company, brand and product names are trade or service marks, or registered trade or service marks, of ZTE CORPORATION or of their respective owners. This document is provided "as is", and all express, implied, or statutory warranties, representations or conditions are disclaimed, including without limitation any implied warranty of merchantability, fitness for a particular purpose, title or non-infringement. ZTE CORPORATION and its licensors shall not be liable for damages resulting from the use of or reliance on the information contained herein.</p> <p>ZTE CORPORATION or its licensors may have current or pending intellectual property rights or applications covering the subject matter of this document. Except as expressly provided in any written license between ZTE CORPORATION and its licensee, the user of this document shall not acquire any license to the subject matter herein.</p> <p>ZTE CORPORATION reserves the right to upgrade or make technical change to this product without further notice.</p> <p>Users may visit ZTE technical support website http://support.zte.com.cn to inquire related information.</p> <p>The ultimate right to interpret this product resides in ZTE CORPORATION.</p>	<p><b>1 Safety Precautions</b></p> <p><b>Usage Cautions</b></p> <ul style="list-style-type: none"> <li>Read all the safety cautions carefully before using the device.</li> <li>Only use the accessories included in the package, such as power supply adapter.</li> <li>Do not extend the power cord, otherwise the device will not work.</li> <li>The power supply voltage must meet the requirements of the device input voltage (The voltage fluctuation range is less than 10%).</li> <li>Keep the power plug clean and dry to prevent any risk of electric shock or other dangers.</li> <li>Disconnect all the cables during a lightning storm to prevent the device from being damaged.</li> <li>Power off and unplug the power plug when the device is not in use for a long time.</li> <li>Do not attempt to open the covers of the device. It is dangerous to do so when the device is powered ON.</li> <li>Do not directly stare at the optical interface to prevent any eye injuries.</li> <li>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.</li> </ul> <p><b>Note:</b></p> <p>The users should read the usage cautions above carefully and will be responsible for any incident resulting from the violation of the above cautions.</p> <p><b>Environment Requirements</b></p> <ul style="list-style-type: none"> <li>Ensure proper ventilation to the device. Place the device away from direct sunlight and never spill any liquid on the device.</li> <li>Do not place any object on the device to prevent any deformation or damage to the device.</li> <li>Do not place the device near any source of heat or water.</li> <li>Keep the device away from any household appliances with strong magnetic or electric fields, such as microwave oven and refrigerator.</li> </ul> <p><b>Cleaning Requirements</b></p> <ul style="list-style-type: none"> <li>Before cleaning, power off the device, and unplug all the cables connected to the device, such as power cable, optical fiber, and Ethernet cable.</li> <li>Do not use any liquid or spray to clean the device. Use a soft dry cloth.</li> </ul> <p><b>Environment Protection</b></p> <ul style="list-style-type: none"> <li>Do not dispose the device or battery improperly.</li> <li>Observe the local regulations about the equipment disposal or treatment.</li> </ul>	<p><b>2 Package Content</b></p> <p>Please make sure the ZXHN F670E package contains the items, refer to Table 2-1.</p> <table border="1"> <tr> <td colspan="2"><b>Table 2-1 Package Contents</b></td> </tr> <tr> <th>Name</th> <th>Quantity</th> </tr> <tr> <td>ZXHN F670E unit</td> <td>One</td> </tr> <tr> <td>AC-DC power supply adapter</td> <td>One</td> </tr> <tr> <td>RJ-45 Ethernet cable</td> <td>One</td> </tr> <tr> <td>User manual</td> <td>One</td> </tr> </table> <p><b>Note:</b></p> <p>A solder outlet that is installed near equipment and that shall be easily accessible.</p> <p>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.</p>	<b>Table 2-1 Package Contents</b>		Name	Quantity	ZXHN F670E unit	One	AC-DC power supply adapter	One	RJ-45 Ethernet cable	One	User manual	One	<p><b>3 Indicator</b></p> <p>Figure 3-1 shows the indicators on the front panel of the ZXHN F670E unit.</p> <p><b>Table 3-1 Indicators on the Front Panel</b></p> <table border="1"> <tr> <th>Indicator</th> <th>Status</th> <th>Description</th> </tr> <tr> <td rowspan="2">Power</td> <td>Off</td> <td>The device is powered off.</td> </tr> <tr> <td>Solid green</td> <td>The device is powered on.</td> </tr> <tr> <td rowspan="2">PON</td> <td>Off</td> <td>The ONT registration fails or the system is not powered on.</td> </tr> <tr> <td>Solid green</td> <td>The ONT registration is successful.</td> </tr> <tr> <td rowspan="2">LOS</td> <td>Solid green</td> <td>The ONT is being registered.</td> </tr> <tr> <td>Off</td> <td>The ONT received optical power is normal.</td> </tr> <tr> <td rowspan="2">Internet</td> <td>Solid red</td> <td>The optical transmitter of the PON interface is powered off.</td> </tr> <tr> <td>Flashing red</td> <td>The required optical power is less than the optical receiver sensitivity, or the device is communicating with a remote device.</td> </tr> <tr> <td rowspan="2">LAN1-LAN4</td> <td>Off</td> <td>The device is not powered on, there is no WAN connection with Internet properties configured, or the WAN configuration is not effective.</td> </tr> <tr> <td>Solid green</td> <td>There is a WAN connection with Internet properties configured and the WAN configuration is effective.</td> </tr> <tr> <td rowspan="2">Phone1/Phone2</td> <td>Flashing green</td> <td>Data is being transmitted.</td> </tr> <tr> <td>Off</td> <td>The device is not powered on or the network link is not established.</td> </tr> <tr> <td rowspan="2">2.4GHz</td> <td>Solid green</td> <td>The network link has been established but no data is being transmitted or received.</td> </tr> <tr> <td>Flashing green</td> <td>Data is being transmitted or received.</td> </tr> </table>	Indicator	Status	Description	Power	Off	The device is powered off.	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Flashing green	Data is being transmitted or received.	<p><b>4 Interface</b></p> <p>Figure 4-1 shows the interfaces and buttons of the ZXHN F670E unit.</p> <p><b>Table 4-1 Descriptions of the Interfaces and Buttons on the Side Panel</b></p> <table border="1"> <tr> <th>Indicator</th> <th>Status</th> <th>Description</th> </tr> <tr> <td rowspan="3">SGHz</td> <td>Off</td> <td>The device is not powered on or the wireless interface is disabled.</td> </tr> <tr> <td>Solid green</td> <td>The wireless interface is enabled.</td> </tr> <tr> <td>Flashing green</td> <td>Data is being transmitted.</td> </tr> <tr> <td rowspan="3">WPS</td> <td>Yellow</td> <td>Negotiation is in progress.</td> </tr> <tr> <td>Green</td> <td>Negotiation is successful.</td> </tr> <tr> <td>Red</td> <td>Session renegotiation negotiation is being implemented or negotiation fails.</td> </tr> <tr> <td rowspan="2">USB</td> <td>Off</td> <td>The device is not powered on or the USB interface is not connected.</td> </tr> <tr> <td>Solid green</td> <td>The USB interface is connected and operating in host mode, but no data is being transmitted.</td> </tr> <tr> <td rowspan="2">BBU(optional)</td> <td>Flashing green</td> <td>Data is being transmitted on the interface.</td> </tr> <tr> <td>Off</td> <td>There is no standby power supply or the standby power supply fails.</td> </tr> <tr> <td rowspan="2">WPS</td> <td>Solid green</td> <td>There is no standby power supply or the standby power supply is used and operates properly.</td> </tr> <tr> <td>Flashing green</td> <td>The standby power supply is used but operates improperly. For example, undercharge occurs.</td> </tr> </table> <p><b>Table 4-2 Descriptions of the Interfaces and Buttons on the Back Panel</b></p> <table border="1"> <tr> <th>Interface/Buttons</th> <th>Description</th> </tr> <tr> <td>On/Off</td> <td>Power switch.</td> </tr> <tr> <td>Power</td> <td>12 V DC power connector.</td> </tr> <tr> <td>USB1</td> <td>Standard USB 2.0 interface, connected to a USB storage device for the sharing, file backup, and data restoration.</td> </tr> <tr> <td>Phone1/Phone2</td> <td>RJ-11 telephone interface, connected to the telephone with RJ-11 telephone cable.</td> </tr> <tr> <td>LAN1-LAN4</td> <td>RJ-45 Ethernet interface.</td> </tr> </table>	Indicator	Status	Description	SGHz	Off	The device is not powered on or the wireless interface is disabled.	Solid green	The wireless interface is enabled.	Flashing green	Data is being transmitted.	WPS	Yellow	Negotiation is in progress.	Green	Negotiation is successful.	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### NOTES(技术要求):

- 1.Dimension after folding(折叠后尺寸): 97\*139mm.
- 2.Print colour(印刷颜色): black printing(黑色印刷).
- 3.Material(材质): 70g writing paper (70g 书纸).
- 4.Coating(表面处理): 无.
- 5.Binding process(装订工艺): Paper folding(折页)——对折再包心折.
- 6.Output Ipi(输出网线): 200 Ipi.
- 7.Tolerance(公差): L(长)\*W(宽):±1mm.
- 8.Raw materials and the corresponding post processing should meet requirements defined in the Environmental Protection Technical Standards. (原材料及后处理工艺均能满足我司《环保技术标准》要求).

效果图

TOL±						CUSTOMER: <b>ZTE</b>	
DIM	RANGE	C1	C2	C3	C4	TITLE: 用户手册	MODEL: ZXHN F670E(V1.0)外置天线
	0~6	0.1	0.1	0.15	0.2		
	6~30	0.2	0.3	0.4	0.5	PART NO: 61000000xxxx	DATE: 17'06,07
	30~80	0.25	0.5	0.9	1.2		
	80~180	0.3	0.8	1.2	1.5	UNIT'S	mm
	180~315	0.5	1.3	1.8	3	MAT'L	/
	315~500	0.7	1.5	2.5	4	FINISH	/
	500~800	0.9	1.8	3	5	VER:	V01
ANG.TOL±	0°~30°/0.1°	30°~60°/0.3°	60°~90°/0.5°			DRAW	
						SCALE	N/A
						CHECK	
						SHEET	1/1
						PDE	