

**GL-X8022U-DR XPON 4GE+2POTS+2USB ONU****Product Description:**

XPON ONU optical network unit GL-X8022U-DR, as a single household unit (HGU), integrates strong interoperability, key customer specific needs and low cost, and provides triple play services to users of FTTB applications. The GL-X8022U-DR optical network unit provides a management channel that conforms to the standard OMCI definition, can realize remote management, and supports a full range of FCAPS monitoring and maintenance functions.

**Product interface:**

Interface: hardware interface, looking from left to right toward the interface, the interface sequence is: 2\*RJ11 telephone interface, LAN port 4-1, reset button, Power switch, ON/OFF button, 2\* USB interface, PON port.

Indicator light: LED definition from left to right: power supply, PON, LOS, ETHERNET, LAN4-LAN1, FXS1-FXS2, 2.4G, 5G, WPS.

**Product Specifications:**

Value	GL-X8022U-DR
Hardware Interface	<ul style="list-style-type: none"> <li>• 4 10/100/1000 Base-T RJ-45 Ethernet interfaces</li> <li>• Ethernet port auto-negotiation or manual configuration</li> <li>• MDI/MDIX automatic detection function</li> <li>• The hardware-based priority queue supports the classification of service (CoS) in the upstream and downstream directions</li> </ul>
Power Supply	<ul style="list-style-type: none"> <li>• +12V (provided by external AC/DC power converter)</li> </ul>

	<ul style="list-style-type: none"> <li>• 2-PIN power converter input</li> <li>• Support Dying Gasp</li> <li>• Power switch</li> </ul>
Power Consumption	<ul style="list-style-type: none"> <li>• &lt;6W</li> </ul>
Dimensions	<ul style="list-style-type: none"> <li>• 232mm x137mm x34mm (W x D x H)</li> </ul>
Full Configuration Weight	<ul style="list-style-type: none"> <li>• 0.69kg</li> </ul>
Environmental Parameters	<ul style="list-style-type: none"> <li>• Temperature: 0°C~ 50°C</li> <li>• Humidity: 5% ~ 95% relative humidity</li> </ul>

### Business Characteristics:

Characteristics	Parameter
GPON Features	<ul style="list-style-type: none"> <li>• Comply with ITU-T G.984 GPON standard</li> <li>• Support GEM package mode</li> <li>• Support DBA (Dynamic Bandwidth Assignment)</li> <li>• Support 40 T-CONT and 256 GEM Port</li> <li>• Support Class B+ optical power budget</li> <li>• Support based on VLAN to GEM Port mapping method</li> <li>• Support FEC (Forward Error Correction)</li> <li>• Realize embedded OAM (Operations, Administration and Maintenance), PLOAM (Physical Layer OAM), OMCI</li> <li>• Support downstream 128-bit AES (Advanced Encryption Standard) encryption</li> <li>• Support power failure alarm</li> </ul>

EPON Features	<ul style="list-style-type: none"> <li>• Meets IEEE 802.3 EPON MAC standard;</li> <li>• Supports a downlink rate of 1.25gbit /s and an uplink rate of 1.25gbit /s.</li> <li>• Supports DS/US FEC;</li> <li>• Supports the downstream encryption and decryption function;</li> <li>• Supports bandwidth allocation;</li> <li>• Supports synchronous Ethernet;</li> </ul>
Video	<ul style="list-style-type: none"> <li>• supports video contents delivered in the form of data (by multicast or unicast)</li> </ul>
Voice	<ul style="list-style-type: none"> <li>• Support Multiple voice codec</li> <li>• Support Echo Cancelling, VAD, CNG</li> <li>• Support static or dynamic jitter buffer</li> <li>• Support Various CLASS services - Caller ID, Call Waiting, Call Forwarding, Call Transfer, etc.SIP (RFC3261)</li> <li>• Support MEGACO v2 (H.248)</li> <li>• Support interfacing external IAD box or Home Router with voice capability through the Ethernet Interface</li> </ul>
VLAN	<ul style="list-style-type: none"> <li>• Support port-based VLAN and IEEE 802.1Q VLAN</li> <li>• Support full range of VID and PVID</li> <li>• Support setting tag attributes based on port + VLAN</li> </ul>
Broadcast Storm Suppression	<ul style="list-style-type: none"> <li>• The number of broadcast messages can be set</li> </ul>
STP	<ul style="list-style-type: none"> <li>• Support IEEE 802.1d/1s/1w Spanning Tree Protocol</li> </ul>
Port Aggregation	<ul style="list-style-type: none"> <li>• Support</li> </ul>
Bandwidth Control	<ul style="list-style-type: none"> <li>• Support 64K to 100M, respectively control the sending and receiving</li> </ul>
Mirroring	<ul style="list-style-type: none"> <li>• Support port mirroring function</li> </ul>
QoS	<ul style="list-style-type: none"> <li>• Support priority based on port/802.1p/IP-TOS</li> <li>• Support 4-level priority control</li> </ul>

OAM	<ul style="list-style-type: none"><li>• Standard compliant OMCI (the embedded operations channel) interface as defined by ITU-T G.988</li><li>• Alarming and performance monitoring Remotely software image download over OMCI, as well as activation and rebooting</li><li>• Hold two software sets with software image integrity checking and automatic rollback</li></ul>
Upgrade	<ul style="list-style-type: none"><li>• Support Xmodem, TFTP protocol to achieve upgrade</li></ul>
Manage	<ul style="list-style-type: none"><li>• Support Telnet remote configuration</li><li>• Support SNMP management</li><li>• Support WEB management</li></ul>
Safety Features	<ul style="list-style-type: none"><li>• Supports centralized authentication of administrator's user password</li><li>• Support port locking and limit the number of MAC addresses per port</li><li>• Support 802.1x</li></ul>
Maintain	<ul style="list-style-type: none"><li>• Support debugging information output</li><li>• Support PING</li><li>• Support system log</li></ul>