

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

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

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| | <ul style="list-style-type: none"> • 2-PIN power converter input • Support Dying Gasp • Power switch |
| POE Power Supply Characteristics | <ul style="list-style-type: none"> • Support IEEE802.3af and IEEE802.3at, • MSCC automatic extension, semi-automatic, automatic mode; • Maximum output power: 25W; • Working temperature: -10 degrees to 85 degrees • Built-in 3.3V and 5V voltage regulator |
| Power Consumption | <ul style="list-style-type: none"> • <6W |
| Dimensions | <ul style="list-style-type: none"> • 232mm x137mm x34mm (W x D x H) |
| Full Configuration Weight | <ul style="list-style-type: none"> • 0.69kg |
| Environmental Parameters | <ul style="list-style-type: none"> • Temperature: 0°C~ 50°C • Humidity: 5% ~ 95% relative humidity |

Business Characteristics:

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

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

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