# XPON 1GE 1FE 1POTS ONU
## GL-GE8011U-PH



   The XPON ONU series were designed and produced by our company, XPON ONU 1GE+1FE+1POTS is a multi-service XPON terminal product with high reliability, high quality, easy management, flexible upgrade and expansion.It is based on the mature GPON&EPON technology, highly reliable and easy to maintain, with guaranteed QoS for different service. And it is fully compliantwith technical regulations such as IEEE 802.3ah and ITU-T G.984

# 1. Product Features:

1)HGU ONU product modality,support bridge and NAT mode.
2)BOB product process.
3)802.11b/g/n wireless access.
4)Provide VOIP port,support connecting normal telephone.
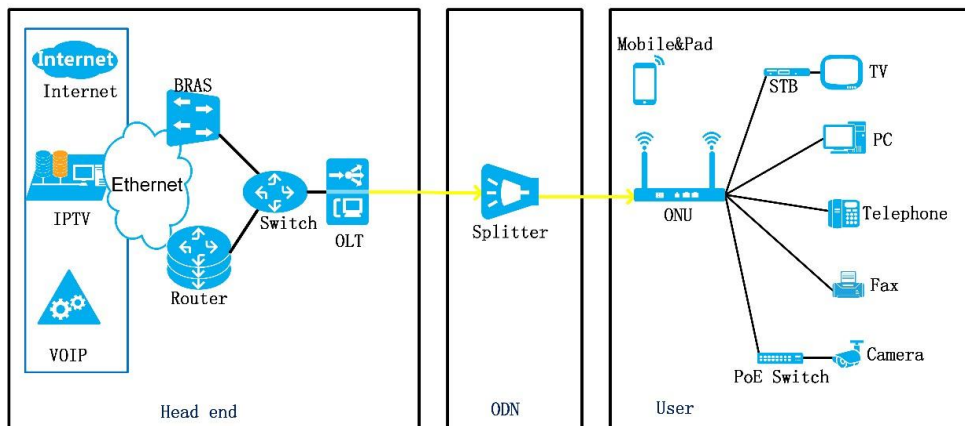5)12V/1.5A external power.

# 2. Support protocol and standard:

ITU-T G.984.1/2/3/4、IEEE802.3,IEEE802.3u,IEEE802.3x,IEEE802.3z、
IEEE802.1d,IEEE802.1p、IEEE802.1q、IEEE802.1x,RFC1155,RFC1157、RFC1112,
RFC1113.



# 3. Network Application：

# 4.  VOIP Feature:

| Item | Parameter |
|---|---|
| Call protocol | SIP, seamless compatible with all popular call agent |
| Voice coding | ITU-T G.711/G.723.1(5.3K/6.3Kbit/s)/G.729, auto-negotiate with call agent |
| IP address assignment | Dynamic PPPoE/DHCP Client and static IP |
| Call loss | Less than 0.01% |
| Functions | Integrate heartbeat function and support active/standby call agent<br><br>Echo cancellation exceeding ITU-T G.165/G.168-2002, up to 128ms tail length<br><br>Support high/low speed fax, bypass fax, and T38 fax<br><br>Support RFC2833 and redundant RFC2833, difference rings, MD5 authentication, call forward, call waiting, hot-line call, alarm clock, and all kinds of value-added voice service |
| | Multi-party conferencing |
| | Line testing according to GR-909 |

# 5. Hardware Parameter:

| Item | Parameters | Specification | |
|---|---|---|---|
| **PON** | PON Port | 1 G/EPON Optical Interface: Single Fiber：1*SC/UPC Fiber； | |
| | Rate | Upstream：GPON:1.244Gbps EPON:1.25Gbps | downstream：GPON:2.488Gbps EPON:1.25Gbps |
| | Type | BOSA | |
| | Wavelength | Tx 1310nm, Rx 1490nm | |
| | Optical Output Power | GPON:+0.5～+5dBm EPON:-1～+4dBm | |
| | Sensitivity | GPON:-28dBm　EPON:-26dBm | |
| | Overload | GPON:-8dBm　　EPON: -3dBm | |
| **UNI** | LAN | 1*10/100/1000Mbps and 1*10/100Mbps Full / Half-Duplex, RJ45, Auto-MDI/MDI-X | |
| | POTS | 1 FXS, RJ11 | |
| | Wireless | IEEE802.11b/g/n, 300Mbps, 2T2R, 2 External | |
| **Environmental Specifications** | Shell | Plastic casing | |
| | Power | External DC 12V/1.5A power supply adapter | |
| | Power consumption | <9W | |

| | Dimensions | 160mm(L)*114mm(W)*29mm(H) |
|---|---|---|
| | Weight | <0.3kg |
| | Environment | Operating Temperature：0～50℃<br><br>Storage Temperature：-40～85℃<br><br>Operating Humidity：10%～90%<br><br>(Non-condensing)<br><br>Storage Humidity：10%～90%<br><br>(Non-condensing) |

# 6. Functions:

| Function | Parameter |
|---|---|
| **GPON Feature** | Compliant with ITU-T G.984 GPON standard.<br>FEC (Forward Error Correction) in both upstream and downstream.<br>Dynamic bandwidth status report.<br>802.1p mapper for upstream.<br>QoS scheduling based on SP or WRR between GEM port and T-CONT.<br>Downstream multicast GEM port and broadcast GEM port |
| **EPON Feature** | IEEE 802.3ah EPON standard.<br>EPON interworking standard of China Telecom and China Unicom.<br>20Km transmission distance on single fiber.<br>128Bits uplink and downlink triple-churning<br>standard OAM and Extension OAM management<br>ONU software batch upgrading.<br>PON port support optical power detection. |
| **Gateway Feature** | WAN support Router and Bridge mode Router<br>mode supports PPPoE/DHCP/ static IP WAN<br>support Internet、IPTV、TR069.<br>LAN supports DHCP and static IP.<br>Support NAT and NAPT |