

1FE XPON ONU (BOSA)

4A FORA XP-101SM Rev.01HB



Overview

1FE XPON ONT is one of the XPON optical network unit design to meet the requirement of the broadband access network. It apply in FTTH/FTTO to provide the data and video service based on the XPON network.

It provide one FE auto-adapting Ethernet ports. The 1FE XPON ONT features high-performance forwarding capabilities to ensure excellent experience with Internet and HD video services. Therefore, the 1FE XPON ONT provides a perfect terminal solution and future-oriented service supporting capabilities for FTTH deployment. It has good third-party compatibility to work with the third party OLT, such as Huawei/ZTE/Fiberhome.

Features

- Fully compatible with ITU-T G.984.1/2/3/4,IEEE802.3ah
- Support downlink rate 2.448Gbit/s, uplink rate is 1.244Gbit/s
- Support 32 TCONT, 256 GEMPORT
- Support bidirectional FEC, supports the RS(255, 239) FEC decoding
- Support AES128 encryption and decryption functions with G.984 standard
- Support DBA bandwidth allocation
- Support three layer routing functions
- Support PLOAM, embedded OMCI management with G.984 standard



- Support Dying-Gas detection and reporting
- Support rogue ONU detection
- Support XPON energy saving of G987.3 protocol
- Support Tag/Untag Ethernet frame of 802.1 and Q 802.3 standard, support QinQ
- Support for flexible flow classification, maximum 520 flow classification rules
- Support link error monitoring and loop monitoring
- Support a variety of multicast forwarding mode, support multicast replication
- Auto-negotiation and manual settings of Ethernet supporting rate, duplex mode
- UNI interface supports STP/RSTP protocol
- Provide QoS guarantees for different priority business through SLA restraining, Policing, queue management scheduling / congestion avoidance, discarding management mode
- Support flow control based on entrance , choose Pause frame reaction pressure to Packet loss for the business beyond
- Support HQoS function
- Support router and PPPoE.

| Parameters | Specification |
|---------------------|---|
| PON Port | <ul style="list-style-type: none"> - 1*XPON port, FSAN G.984.2 standard / IEEE802.3ah; - Downstream Data Rate: 2.488Gbps; - Upstream Data Rate: 1.244Gbps; - SC/UPC single mode fiber; - 28dB Link loss and 20KM distance with 1:128; - Receiving sensitivity:≤-30dBm; - Transmitting optical power:0~+4dBm; |
| Ethernet Port(LAN) | <ul style="list-style-type: none"> - 1*FE Auto-negotiation RJ45 ports; - Full Duplex / Half-Duplex; - RJ45, Auto-MDI/MDI-X; - Transmission Distance 100 Meters; |
| Power Supply Port | <ul style="list-style-type: none"> - 12V DC input; |
| Network Management | <ul style="list-style-type: none"> - Standard compliant OMCI interface as defined by ITU-T G.984.4; - Support WEB management; |
| Management Function | <ul style="list-style-type: none"> - Status monitor; - Configuration management; - Alarm management; - Log management |
| Shell | <ul style="list-style-type: none"> - Plastic casing; |
| Power | <ul style="list-style-type: none"> - External 12VDC 0.5A power supply adapter; - Power consumption: <3W; |
| Dimensions | <ul style="list-style-type: none"> - 115mm(L) x133mm(W) x25mm (H); - 0.3kg; |
| Environment | <ul style="list-style-type: none"> - Operating Temperature: 0~50°C; - Storage Temperature: -40~85°C; - Operating Humidity: 10%~90% (Non-condensing); - Storage Humidity: 10%~90%(Non-condensing); |

Application

✧ Solution: FTTH

✧ Business: Broadband Internet, IPTV, VOD, IP Camera

