

# XPON ONU FORA XP-1001H Rev. 05ZB Specification



## 1. Overview

- FORA XP-1001H Rev. 05ZB series single-user ONU is designed for ONU in deferent FTTH solutions by HDV, The carrier-class FTTH application provides date service access.
- FORA XP-1001H Rev. 05ZB series adopts high-performance and low-consumption chips, and supports CTC V2.0 interconnection and interworking standard of China Telecom. With the help of NGBN View NMS, it can provide subscribers with abundant services, and totally meet the needs of carrier-class FTTH devices.
- FORA XP-1001H Rev. 05ZB series is designed by ZTE chipset.

## 2. Functional Features

- Color is optional;
- Router mode supports PPPoE / DHCP / static IP;
- Support port-based rate limitation and bandwidth control;
- In compliant with ITU-T G.984 Standard;
- Up to 20KM transmission distance;
- Support data encryption, group broadcasting, port VLAN separation, etc.;
- Support Dynamic Bandwidth Allocation (DBA);
- Support ONU auto-discovery / Link detection / remote upgrade of software;
- Support VLAN division and user separation to avoid broadcast storm;
- Support power-off alarm function, easy for link problem detection;
- Support broadcasting storm resistance function;
- Specialized design for system breakdown prevention to maintain stable system;
- Support software online upgrading EMS network management based on SNMP, convenient for maintenance;

### 3. Hardware Specification

Item	Parameter
PON Interface	<ul style="list-style-type: none"> <li>- 1 GPON optical interface;</li> <li>- Meet Class B+ standard;</li> <li>- Upstream 1.244Gbps, downstream 2.488Gbps;</li> <li>- SC single-mode fiber;</li> <li>- Split ratio:1:128;</li> <li>- Transmission distance 20KM;</li> </ul>
User Ethernet Interface	<ul style="list-style-type: none"> <li>- 1*10/100/1000M auto-negotiation full/half duplex mode;</li> <li>- RJ45 connector;</li> <li>- 100m distance;</li> </ul>
Power Interface	<ul style="list-style-type: none"> <li>- 12V DC Power supply;</li> </ul>
PON Optical Parameter	<ul style="list-style-type: none"> <li>- Wavelength: Tx1310nm, Rx1490nm;</li> <li>- Tx Optical Power: 0.5 ~ +5dBm;</li> <li>- Rx Sensitivity: -27dBm;</li> <li>- Saturation Optical Power: -8dBm;</li> <li>- Connector Type: SC;</li> <li>- Optical Fiber: 9/125<sup>μ</sup>m single-mode fiber;</li> </ul>
Data Transmission Parameter	<ul style="list-style-type: none"> <li>- Packet Loss Ratio: &lt;1*10E-12;</li> <li>- Latency: &lt;1.5ms;</li> </ul>
Gateway	<ul style="list-style-type: none"> <li>- Router mode;</li> <li>- Supports PPPoE / DHCP/ static IP;</li> <li>- WAN support Router and Bridge mode;</li> <li>- WAN support Internet;</li> <li>- LAN supports DHCP and static IP;</li> <li>- Support NAT and NAPT;</li> </ul>
Business Capability	<ul style="list-style-type: none"> <li>- Layer 2 wire speed switching;</li> <li>- Support VLAN TAG / UNTAG, VLAN conversion;</li> <li>- Support Port-based speed limitation;</li> <li>- Support Priority classification;</li> <li>- Support storm control of broadcast;</li> </ul>
Management Mode	<ul style="list-style-type: none"> <li>- Support ITU-T G.984 OMCI;</li> <li>- ONU can be remotely managed by OLT;</li> <li>- Support Remote management through Telnet or http Local management;</li> </ul>
Management Function	<ul style="list-style-type: none"> <li>- Status monitor;</li> <li>- Configuration management;</li> <li>- Alarm management;</li> <li>- Log management;</li> </ul>
LED Indicator	<ul style="list-style-type: none"> <li>- PWR: Power up or down;</li> <li>- LOS: Optical Link Status;</li> <li>- PON : ONU Registered;</li> <li>- LINK / ACT: Link Status of Ethernet Interface;</li> </ul>
Shell	<ul style="list-style-type: none"> <li>- Plastic casing;</li> </ul>
Power	<ul style="list-style-type: none"> <li>- External 12V 0.5A AC/DC power supply adapter;</li> <li>- Power consumption: &lt;2.3W;</li> </ul>
Physical Specifications	<ul style="list-style-type: none"> <li>- Item Dimension: 120mm(L) x 78mm(W) x 30mm (H);</li> </ul>

	- Item weight :0.05kg;
Environmental Specifications	- Operating temperature: -20 to 70 °C; - Storage temperature: -40 to 85 °C; - Operating humidity: 10% to 90% (Non-condensing); - Storage humidity: 10% to 90% (Non-condensing);

## 4. Application

- Typical Solution : FTTHs FTTBs PON+EOC
- Typical Business : INTERNET IP Camera

