

# HTR5033X

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## XPON ONU 1GE+Switch BOB SPECIFICATION

### 1. Overview

- HTR5033X is designed as SFU/HGU in different FTTH solutions, The carrier-class FTTH application provides data service access.
- HTR5033X is based on mature and stable, cost-effective XPON technology. It can switch automatically with EPON and GPON mode when access to the EPON OLT or GPON OLT.
- HTR5033X adopts high reliability, easy management, configuration flexibility and good quality of service (QoS) guarantees to meet the technical performance of the module of China Telecom EPON CTC3.0 and GPON Standard of ITU-TG.984.X

### 2. Functional Feature

- Support SFU/HGU type and switch mode from ONU Webpage
- Support EPON/GPON mode and switch mode automatically
- Support Route PPPoE/IPoE/Static IP and Bridge mode
- Support IPv4/IPv6 Dual mode
- Support Firewall function and IGMP multicast feature
- Support LAN IP and DHCP Server configuration
- Support Port Forwarding and Loop-Detect
- Support TR069 Remote Configuration and maintenance
- Specialized design for system breakdown prevention to maintain stable system

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## 3. Hardware Specification

| Technical item      | Details   |
|---------------------|---|
| PON Interface       | 1 GPON BOB (Bosa on Board)  |
|                     | Receiving sensitivity: $\leq -27\text{dBm}$                         |
|                     | Transmitting optical power: $0\sim +5\text{dBm}$                    |
|                     | Transmission distance: 20KM   |
| Wavelength          | TX: 1310nm, RX: 1490nm  |
| Optical Interface   | SC/UPC Connector(Regular) SC/APC(Customize)                         |
| Chip Spec           | RTL9601D,DDR2 32MB  |
| Flash               | SPI Nor Flash 16MB  |
| LAN Interface       | 1x 10/100/1000Mbps auto adaptive Ethernet interface. RJ45 connector |
| LED                 | 4 LED, For Status of PWR、LOS、PON、LINK/ACT                           |
| Push-Button         | 2,For Function of Power Switch, Factory Reset                       |
| Operating Condition | Temperature: $0^{\circ}\text{C}\sim +50^{\circ}\text{C}$            |
|                     | Humidity: 10%~90% (non-condensing)                                  |
| Storing Condition   | Temperature: $-30^{\circ}\text{C}\sim +60^{\circ}\text{C}$          |
|                     | Humidity: 10%~90% (non-condensing)                                  |
| Power Supply        | DC 12V/0.5A   |
| Power Consumption   | $<3\text{W}$  |
| Dimension           | 120mmx78mmx30mm(LxWxH)  |
| Net Weight          | 0.13Kg  |

## 4. Panel lights Introduction

| Pilot    | Status | Description                                  |
|----------|--------|--|
| PWR      | On     | The device is powered up.                    |
|          | Off    | The device is powered down.                  |
| PON      | On     | The device has registered to the PON system. |
|          | Blink  | The device is registering the PON system.    |
|          | Off    | The device registration is incorrect.        |
| LOS      | Blink  | The device does not receive optical signals. |
|          | Off    | The device has received optical signal.      |
| LINK/ACT | On     | Port is connected properly (LINK).           |
|          | Blink  | Port is sending or/and receiving data (ACT). |
|          | Off    | Port connection exception or not connected.  |

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## 5. Product Appearance



## 6. Application

- Typical Solution: FTTO(Office)、FTTB(Building)、FTTH(Home)
- Typical Business: INTERNET、IPTV etc

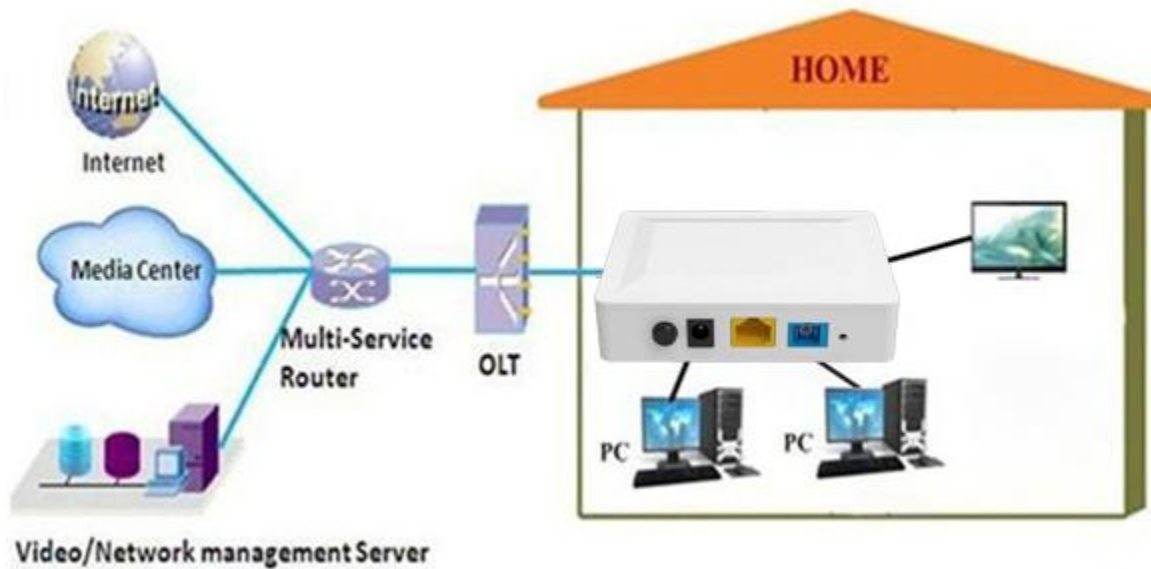


Figure: HUR5033X Application Diagram