1GE+CATV ONU
QF-CX010C

Overview

- 1GE+CATV is designed as HGU (Home Gateway Unit) in different FTTH solutions; the carrier-class FTTH application provides data service access.

- 1GE+CATV is based on mature and stable, cost-effective XPON technology. It can switch automatically with EPON and GPON mode when it access to the EPON OLT or GPON OLT.

- 1GE+CATV 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.

- 1GE+CATV is fully compliant with technical regulations such as ITU-T G.984.x and IEEE802.3ah.

- 1GE+CATV is designed by Realtek chipset 9601D

Feature

- Supports Dual Mode (can access GPON/EPON OLT).

- Supports SFU and HGU of EPON CTC 3.0 standard

- Supports GPON G.984/G.988 standards and IEEE802.3ah.

- Support CATV interface for Video Service and remote control by Major OLT

- Support NAT, Firewall function.

- Support Flow & Storm Control , Loop Detection, Port Forwarding and Loop-Detect

- Support port mode of vlan configuration

- Support LAN IP and DHCP Server configuration

- Support TR069 Remote Configuration and maintenance

- Support Route PPPoE/DHCP/Static IP and Bridge mixed mode

- Support IPv4/IPv6 dual stack

- Support IGMPv2, IGMPv3, MLDv1, MLDv2, IGMP snooping/proxy

- Compatible with popular OLT(HW, ZTE, FiberHome…)

Specification

Technical Item	Details
Pon interface	1 GPON/EPON port(EPON PX20+ and GPON Class B+) Upstream: 1310nm, Downstream: 1490nm SC/APC connector Receiving sensitivity: ≤-28dBm Transmitting optical power: 0~+4dBm Transmission distance: 20KM
LAN interface	10/100/1000Mbps auto adaptive Ethernet interfaces. 10/100/1000M Full/Half, RJ45 connector
CATV Interface	RF, optical power : +2~-18dBm Optical reflection loss: ≥45dB Optical receiving wavelength: 1550±10nm RF frequency range: 47~1000MHz, RF output impedance: 75Ω RF output level: ≥82dBuV（-7dBm optical input） AGC range: +2~-7dBm/-4~-13dBm/-5~-14dBm MER: ≥32dB(-14dBm optical input), ＞35(-10dBm)
LED	6 LED, For Status of POWER, LOS, PON, LAN, NORMAL, WARN
Push-Button	2, for Function of Power on/off, Reset
Operating condition	Temperature : 0℃～50℃ Humidity :10%～90%（non-condensing）
Storing Condition	Temperature : -40℃～+60℃ Humidity :10%～90%（non-condensing）
Power supply	DC 12V/1A
Power Consumption	<3W
Net Weight	<0.2kg

Panel lights and Introduction

Pilot	Status	Description
POWER	On	The device is powered up.
	Off	The device is powered down.
LOS	Blink	The device doses not receive optical signals.
	Off	The device has received optical signal.
PON	On	The device has registered to the PON system.
	Blink	The device is registering the PON system.
	Off	The device registration is incorrect.
LAN	On	Port is connected properly (LINK).
	Blink	Port is sending or/and receiving data (ACT).
	Off	Port connection exception or not connected.
NORMAL	On	Input optical power is between -18dbm and 2dBm
	Off	Input optical power is higher than 3dbm or lower than -18dBm
WARN	On	Input optical power is higher than 2dBm or lower than -18dBm
	Off	Input optical power is between -18dBm and 2dBm

Application

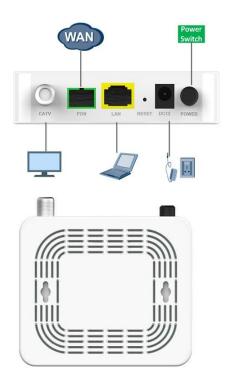- Typical Solution：FTTO(Office)、FTTB(Building)、FTTH(Home)

  Typical Service：Broadband Internet access, IPTV, VOD, CATV and Video Surveillance

Appearance

Ordering information

Product Name	Product Model	Descriptions
1GE+CATV XPON	Model Name: QF-CX010C Model Series No.: CX0101R001	10/100/1000Mbps auto adaptive Ethernet（RJ45）,1 SC/APC Connector, 1 RF Connector, Plastic Casing, External power supply adapter
1GE+CATV EPON	Model Name: QF-CE010C Model Series No.: CE0101R001	10/100/1000Mbps auto adaptive Ethernet（RJ45）,1 SC/APC Connector, 1 RF Connector, Plastic Casing, External power supply adapter