

# XPON ONU 1G3F WIFI CATV

## Overview

- 1G3F WIFI CATV is designed as HGU (Home Gateway Unit) in different FTTH solutions; the carrier-class FTTH application provides data service access.
- 1G3F WIFI 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.
- 1G3F WIFI 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.
- 1G3F WIFI CATV is compliant with IEEE802.11n STD, adopts with 2x2 MIMO, the highest rate up to 300Mbps.
- 1G3F WIFI CATV is fully compliant with technical regulations such as ITU-T G.984.x and IEEE802.3ah.
- 1G3F WIFI CATV is designed by ZTE chipset 279127.

## Feature

- Supports Dual Mode (can access GPON/EPON OLT).
- Supports GPON G.984/G.988 standards
- Support CATV interface for Video Service and remote control by Major OLT
- Support 802.11n WIFI (2x2 MIMO) function
- 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/IPoE/DHCP/Static IP and Bridge mixed mode
- Support IPv4/IPv6 dual stack
- Support IGMP transparent/snooping/proxy
- In compliant with IEEE802.3ah standard

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

## Specification

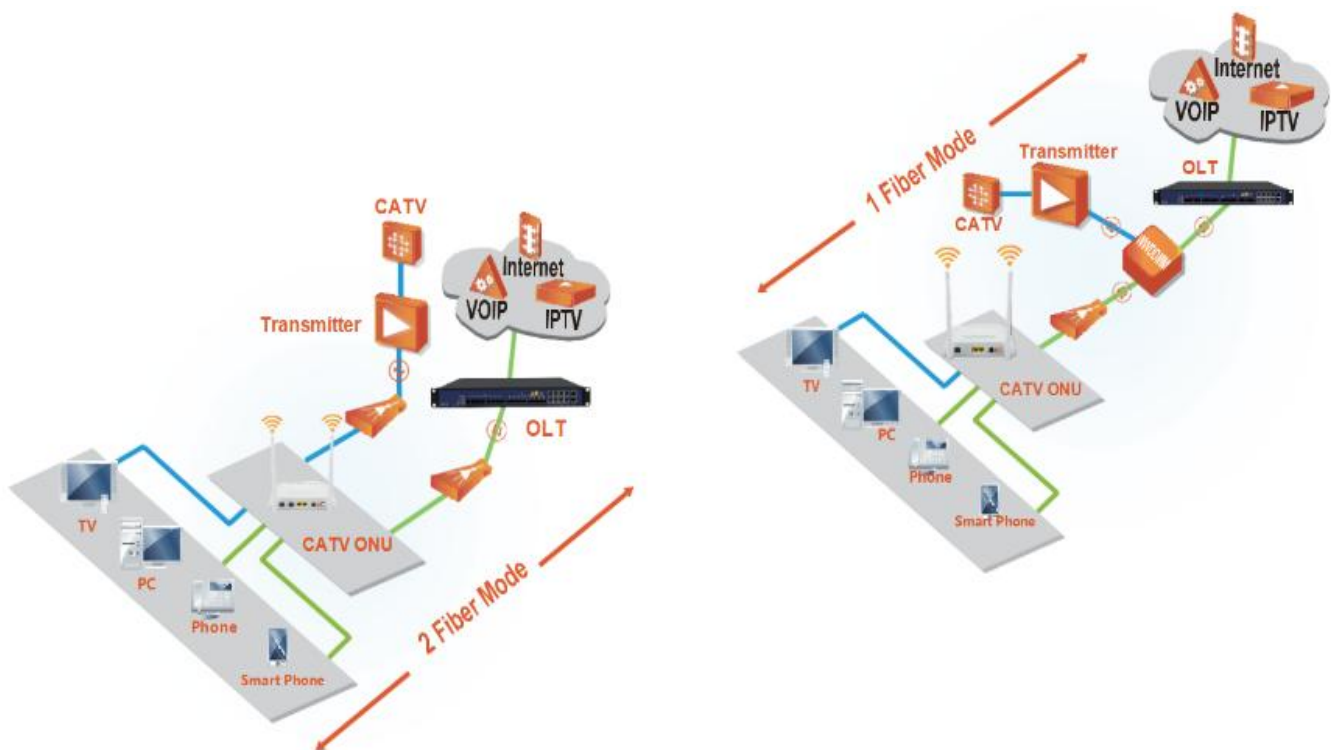
Technical Item	Details
PON interface	1 E/GPON port(EPON PX20+ and GPON Class B+) Upstream: 1310nm; Downstream: 1490nm SC/APC connector Receiving sensitivity: $\leq -28\text{dBm}$ Transmitting optical power: $0.5\sim+4\text{dBm}$ Transmission distance: 20KM
LAN interface	1x10/100/1000Mbps and 3x10/100Mbps auto adaptive Ethernet interfaces. Full/Half, RJ45 connector
WIFI Interface	Compliant with IEEE802.11b/g/n Operating frequency: 2.400-2.4835GHz support MIMO, rate up to 300Mbps 2T2R, 2 external antenna 5dBi Support: Multiple SSID Channel:13 Modulation type: DSSS、CCK and OFDM Encoding scheme: BPSK、QPSK、16QAM and 64QAM
CATV Interface	RF, optical power : $+2\sim-18\text{dBm}$ Optical reflection loss: $\geq 45\text{dB}$ Optical receiving wavelength: $1550\pm 10\text{nm}$ RF frequency range: $47\sim 1000\text{MHz}$ , RF output impedance: $75\Omega$ RF output level: $\geq 80\text{dBuV}$ ( $-7\text{dBm}$ optical input) AGC range: $+2\sim-7\text{dBm}/-4\sim-13\text{dBm}/-5\sim-14\text{dBm}$ MER: $\geq 32\text{dB}(-14\text{dBm}$ optical input), $> 35(-10\text{dBm})$
LED	10 LED, For Status of WIFI、WPS、PWR、LOS、PON、LAN1~LAN4、NORMAL(CATV)
Push-Button	3, for Function of Power on/off, Reset, WPS
Operating condition	Temperature : $0^{\circ}\text{C}\sim+50^{\circ}\text{C}$ Humidity : $10\%\sim 90\%$ ( non-condensing )
Storing Condition	Temperature : $-40^{\circ}\text{C}\sim+60^{\circ}\text{C}$ Humidity : $10\%\sim 90\%$ ( non-condensing )
Power supply	DC 12V/1A
Power Consumption	$<6\text{W}$
Net Weight	$<0.4\text{kg}$

## Panel lights and Introduction

PilotLamp	Status	Description
WIFI	On	The WIFI interface is up.
	Blink	The WIFI interface is sending or/and receiving data (ACT).
	Off	The WIFI interface is down.
WPS	Blink	The WIFI interface is securely establishing a connection.
	Off	The WIFI interface does not establish a secure connection.
PWR	On	The device is powered up.
	Off	The device is powered down.
LOS	Blink	The device does not receive optical signals or with low 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.
LAN1~LAN4	On	Port (LANx) is connected properly (LINK).
	Blink	Port (LANx) is sending or/and receiving data (ACT).
	Off	Port (LANx) connection exception or not connected.
Normal (CATV)	On	Input optical power is between -18dBm and 2dBm
	Off	Input optical power is higher than 2dBm or lower than -18dBm

## Application

- Typical Solution: FTTO(Office)、FTTB(Building)、FTTH(Home)
- Typical Service: Broadband Internet access, IPV, CATV etc.



## Appearance



## Ordering information

Product Name	Product Model	Descriptions
1G3F WIFI CATV XPON	ZX1104R127	1*10/100/1000M and 3*10/100M Ethernet interface, 1 GPON interface, built-in FWDM, 1 RF interface, support Wi-Fi function, support AGC, plastic casing, external power supply adapter