

XPON 2GE AC WIFI CATV ONU

Short Description

XPON ONU 2*gigabit ports dual-band WIFI2.4&5.8G plus CATV, carrier-grade FTTH applications provide data and video service access. CATV with AGC automatic gain and real RF stable output, WIFI with MESH function, supporting whole-house network networking. Compatible with the OMCI private protocol functions of multi-vendor OLTs, which can be delivered and managed through related OLTs. Support illegal ONT detection, support Internet, IPTV, CATV services automatically bind ONT ports and other functions. Our products are guaranteed for 1-3 years from the date of sale, and the software can be upgraded for free for life.

(single size: 230x207x470mm Carton size:510X425X475mm) (Product Model:CX51020R07C)

Overview

- 2GE+AC WIFI+CATV is designed as HGU (Home Gateway Unit) in different FTTH solutions. The carrier-class FTTH application provides data and video service access.
- 2GE+AC WIFI+CATV is based on mature and stable, cost-effective XPON technology. It could switch automatically into EPON mode or GPON mode when access to the EPON OLT and GPON OLT.
- 2GE+AC WIFI+CATV adopts high reliability, easy management, configuration flexibility and good quality of service guarantees to meet the technical performance of EPON Standard of China telecommunication CTC3.0 and GPON Standard of ITU-TG.984.X
- 2GE+AC WIFI+CATV is designed by Realtek chipset 9607C.

Feature

- Supports GPON and EPON auto detection
- Support Rogue ONT detection
- Support Route mode PPPOE/DHCP/Static IP and Bridge mixed mode
- Support NAT, Firewall function.
- Support Internet, IPTV and CATV services automatically bound to ONT ports
- Support Virtual server, DMZ, and DDNS, UPNP
- Support Filtering based on MAC/IP/URL

- Support 802.11 b/g/n, 802.11ac WIFI(4x4 MIMO) function and Multiple SSID
- Support Flow & Storm Control , Loop Detection and Port Forwarding
- Support IPv4/IPv6 dual stack and DS-Lite
- Support IGMP transparent/snooping/proxy
- Support TR069 Remote Configuration and maintenance
- Support CATV remote management from OLT
- Integrated OAM remote configuration and maintenance function
- Compatible with popular OLT (HW, ZTE, FiberHome,VSOL...)

Specification

Technical Item	Details
PON interface	1 G/EPON port(EPON PX20+ and GPON Class B+) Upstream: 1310nm; Downstream: 1490nm SC/APC connector Receiving sensitivity: $\leq -28\text{dBm}$ Transmitting optical power: $0\sim+4\text{dBm}$ Transmission distance: 20KM
LAN interface	2 x 10/100/1000Mbps auto adaptive Ethernet interfaces, Full/Half, RJ45 connector
WIFI Interface	Compliant with IEEE802.11b/g/n/ac 2.4GHz Operating frequency: 2.400-2.483GHz 5.0GHz Operating frequency: 5.150-5.825GHz Support 4*4MIMO, 5dBi external antenna, rate up to 867Gbps Support: multiple SSID TX power: 11n--22dBm/11ac--24dBm
CATV Interface	RF, optical power : $+2\sim-15\text{dBm}$ Optical reflection loss: $\geq 60\text{dB}$ Optical receiving wavelength: $1550\pm 10\text{nm}$ RF frequency range: 47~1000MHz, RF output impedance: 75 Ω RF output level: $\geq 80\text{dBuV}$ (-7dBm 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	9 LED, For Status of PWR、LOS、PON、LAN1、LAN2、2.4G、5.8G、WARN、Normal(CATV)

Push-Button	3 button for Function of Power on/off, Reset, WPS
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	<6W
Net Weight	<0.3kg

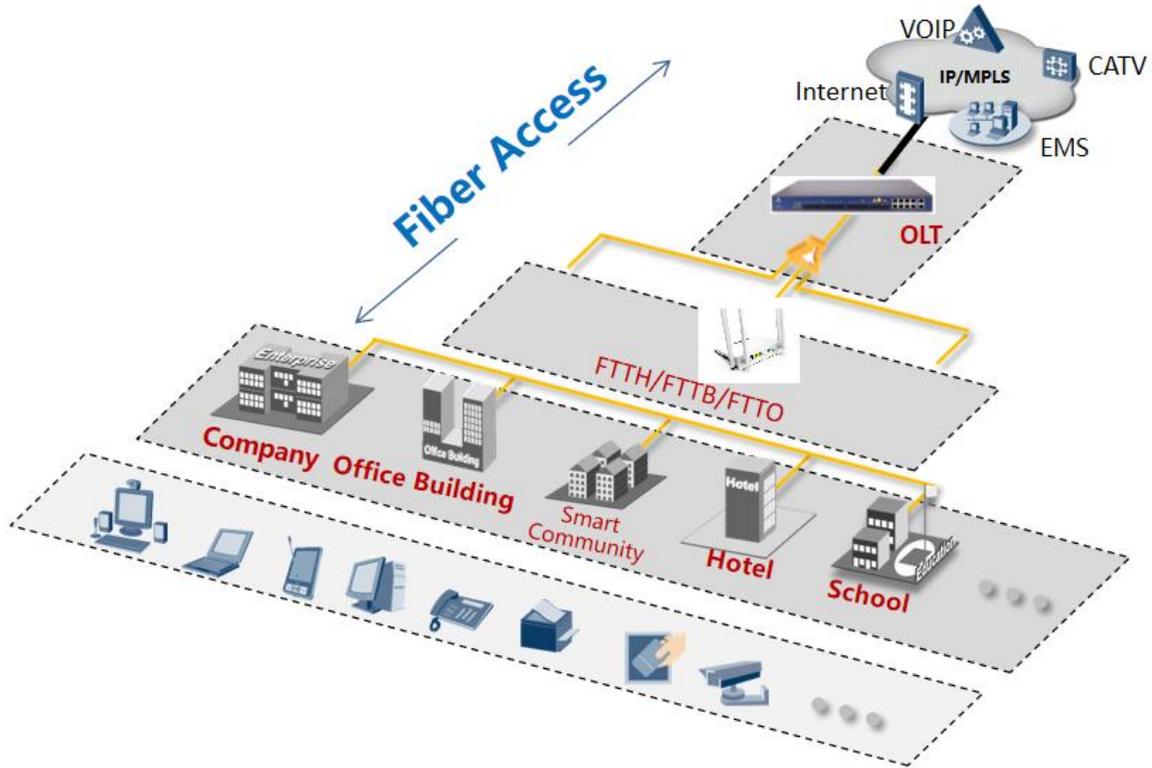
Panel lights and Introduction

Pilot Lamp	Status	Description
2.4G	On	2.4G WIFI up
	Blink	2.4G WIFI is sending or/and receiving data (ACT).
	Off	2.4G WIFI down
5.8G	On	5G WIFI up
	Blink	5G WIFI is sending or/and receiving data (ACT).
	Off	5G WIFI down
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~LAN2	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.
WARN (CATV)	On	Input optical power is higher than 2dBm or lower than -18dBm
	Off	Input optical power is between -18dBm and 2dBm

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

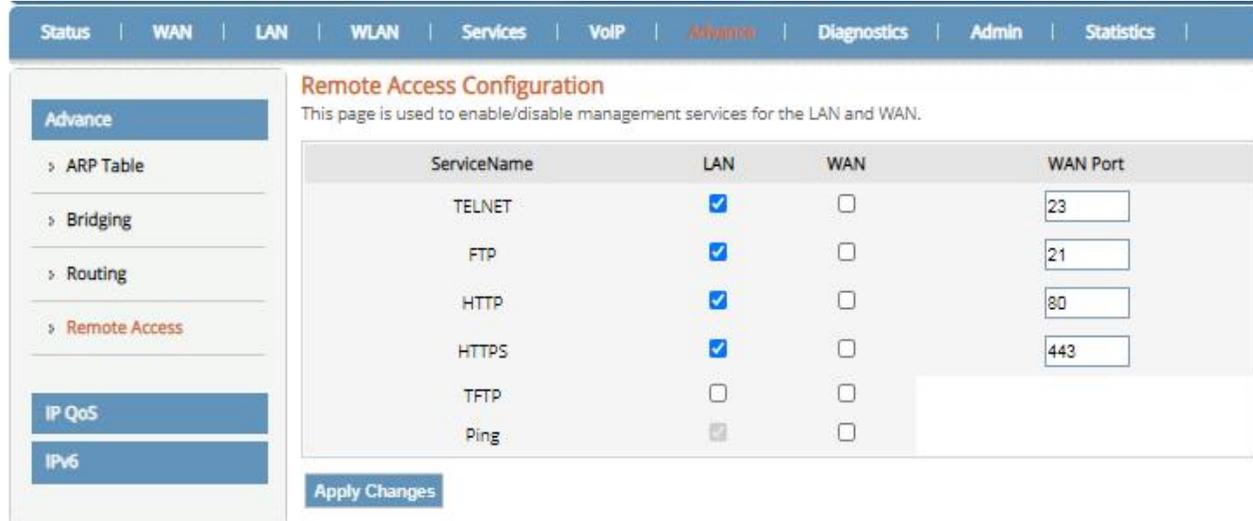


Ordering information

Product Name	Product Model	Descriptions
XPON 2GE AC WIFI CATV ONU	CX51020R07C	2*10/100/1000M, 1 PON interface, built-in FWDM, 1 RF interface, support WIFI 5G&2.4G, support CATV AGC, plastic casing, external power supply adapter

Let's take a look at our firewall, UPnP and RIP, about the firewall part, including IP/port filtering, Mac filtering, port forwarding and where to set up DMZ!

For IP/Port and Mac filtering configurations, this will help protect or restrict your local network.



The screenshot shows the 'Remote Access Configuration' page in a network management interface. The page is used to enable/disable management services for the LAN and WAN. The interface includes a navigation menu on the left with options like 'Advance', 'ARP Table', 'Bridging', 'Routing', 'Remote Access', 'IP QoS', and 'IPv6'. The main content area displays a table with columns for 'ServiceName', 'LAN', 'WAN', and 'WAN Port'. The table lists services such as TELNET, FTP, HTTP, HTTPS, TFTP, and Ping, with checkboxes for LAN and WAN access and input fields for WAN ports. An 'Apply Changes' button is located at the bottom of the table.

ServiceName	LAN	WAN	WAN Port
TELNET	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="23"/>
FTP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="21"/>
HTTP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="80"/>
HTTPS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="443"/>
TFTP	<input type="checkbox"/>	<input type="checkbox"/>	
Ping	<input checked="" type="checkbox"/>	<input type="checkbox"/>	