Introduction

1.1 Product Description

GPON 1GE+WiFi ONU is support Dual mode(GPON), It can also be applied to a wide temperature environment, good WiFi coverage and also has a powerful firewall function.

GPON 1GE+WiFi ONU meets telecom operators FTTO (office), FTTD (Desk), FTTH(Home) broadband speed, SOHO broadband access, video surveillance and other requirements and design a GPON Gigabit Ethernet products. The box is based on the mature Gigabit GPON technology, highly reliable and easy to maintain, with guaranteed QOS for different service. And it is fully compliant with technical regulations such as ITU-T G.984.x.

Figure 1   GPON 1GE+WiFi ONU

1.2 Product categories

Product model	Product specification	Chipset	SDRAM Memory
V2801RGW	1 GPON+1GE+WiFi	Realtek	64MB

Table 1 Product categories

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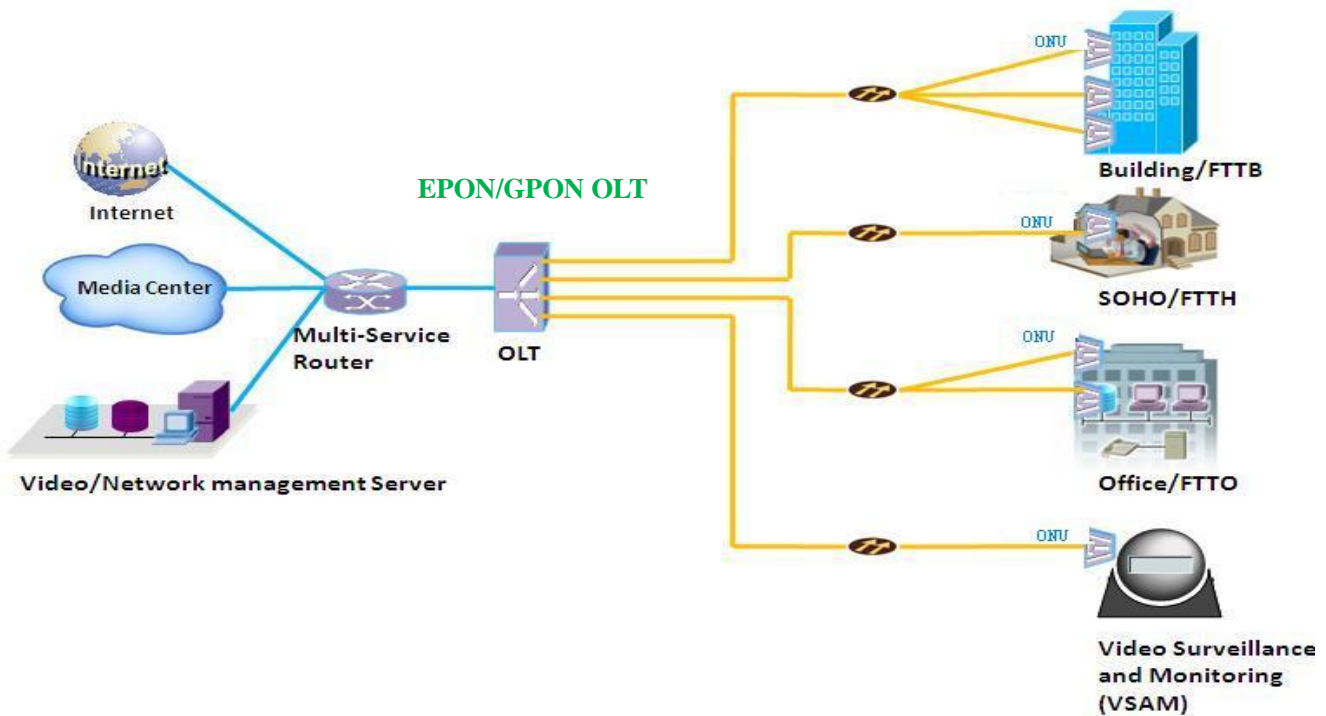
1.3 Application Chart

Figure 2   Application Chart

1.3 Technical parameters

Technical item	1GE+WiFi
PON interface	1 GPON port(GPON Class B+) Wavelength:Tx1310nm,Rx 1490nm SC/UPC connector Receiving sensitivity: ≤-28dBm Transmitting optical power: 0~+4dBm Transmission distance: 20KM
LAN interface	1 x 10/100/1000Mbps auto adaptive Ethernet interfaces.10/100/1000M Full/Half, RJ45 connector
WiFi interface	Compliant with IEEE802.11b/g/n Operating frequency: 2.412-2.462GHz support MIMO, rate up to 300Mbps 2T2R,2 external antenna 5dBi Support: multiple SSID Channel:13
LED	5, For Status of POWER、LOS、PON、LAN、WiFi
Operating condition	Temperature: 0℃～+50℃ Humidity: 10%～90%（non-condensing）
Storing condition	Temperature : -30℃～+60℃ Humidity :10%～90%（non-condensing）
Power supply	DC 12V/0.5A
Power consumption	≤6W

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Dimension	120mm×78mm×30mm（L×W×H）
Net weight	0.15Kg

Table 2 Technical parameters

1.4 Panel lights

LED	Mark	Status	Description
Power	POWER	On	The device is powered up.
		Off	The device is powered down.
Optical signal loss	LOS	Blink	Device does not receive optical signals.
		Off	Device has received optical signal.
Registration	REG	On	The device is registered to the PON system.
		Off	Device is not registered to the PON system.
		Blink	Device registration is incorrect.
Interface	LINK/ACT	On	Port is connected properly (LINK).
		Off	Port connection exception or not connected.
		Blink	Port is sending or/and receiving data (ACT).
WiFi	WiFi	On	WiFi running.
		Off	WiFi not working.

Table 3 Panel lights on

1.6 Interface description

Port Type	Function
PON	Connect PON port with internet by SC/UPC type, single mode optical fiber cable.
LAN	Connect device with ethernet port by RJ-45 cat5 cable.
RST	Press down reset button and keep1-5seconds to make the device restart and recover from the factory default settings.
Power ON/OFF	Power on and Power off.
DC12V	Connect with power adapter.

Table 4 Interface description

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1.7 Software Key Feature

Software Key Feature	
Software mode	Routing mode.
WiFi	IEEE802.11b/g/n WiFi Authentication : WEP/WAP-PSK(TKIP)/WAP2-PSK(AES)
Layer3	IPv4, DHCP Client/Server , PPPoE,.
Multicast	IGMP v1/v2/v3 , IGMP snooping.
Security	Flow & Storm control, Loop Detection.
O&M	WEB/TELNET.

Table 5 Software Key Feature

FCC Statement
This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception,which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
Reorient or relocate the receiving antenna.
Increase the separation between the equipment and receiver.
Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help important announcement Important Note:

Radiation Exposure Statement
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.
This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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