



OP-B0210W HGU GPON ONU



OP-B0210W GPON HGU ONU is one of the GPON optical network unit design to meet the requirement of the broadband access network. It apply in FTTH/FTTO to provide the data, voice and video service based on the GPON network.

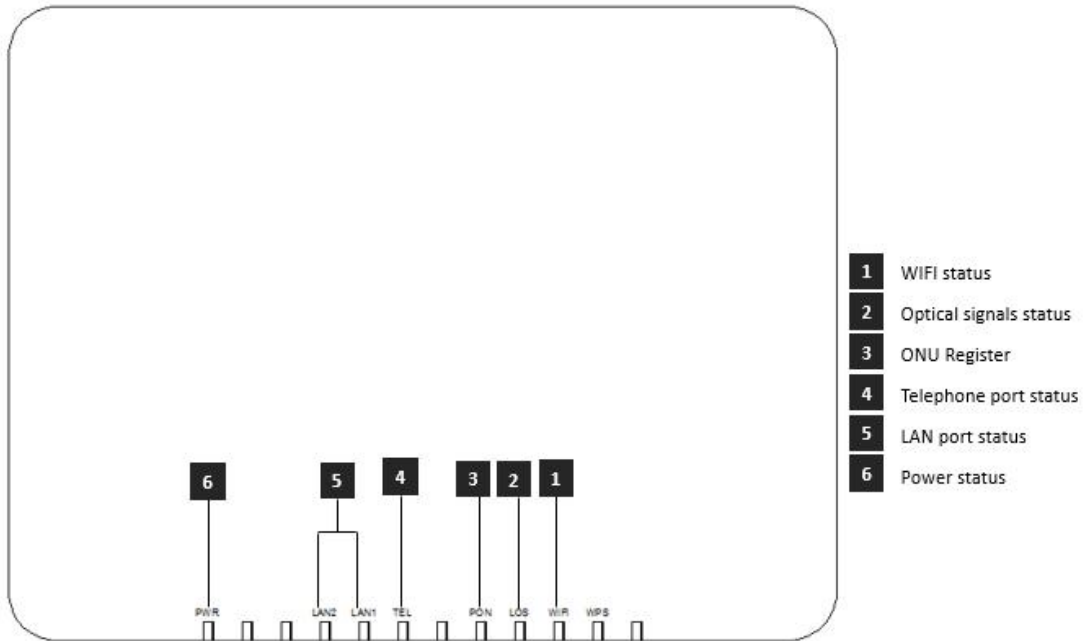
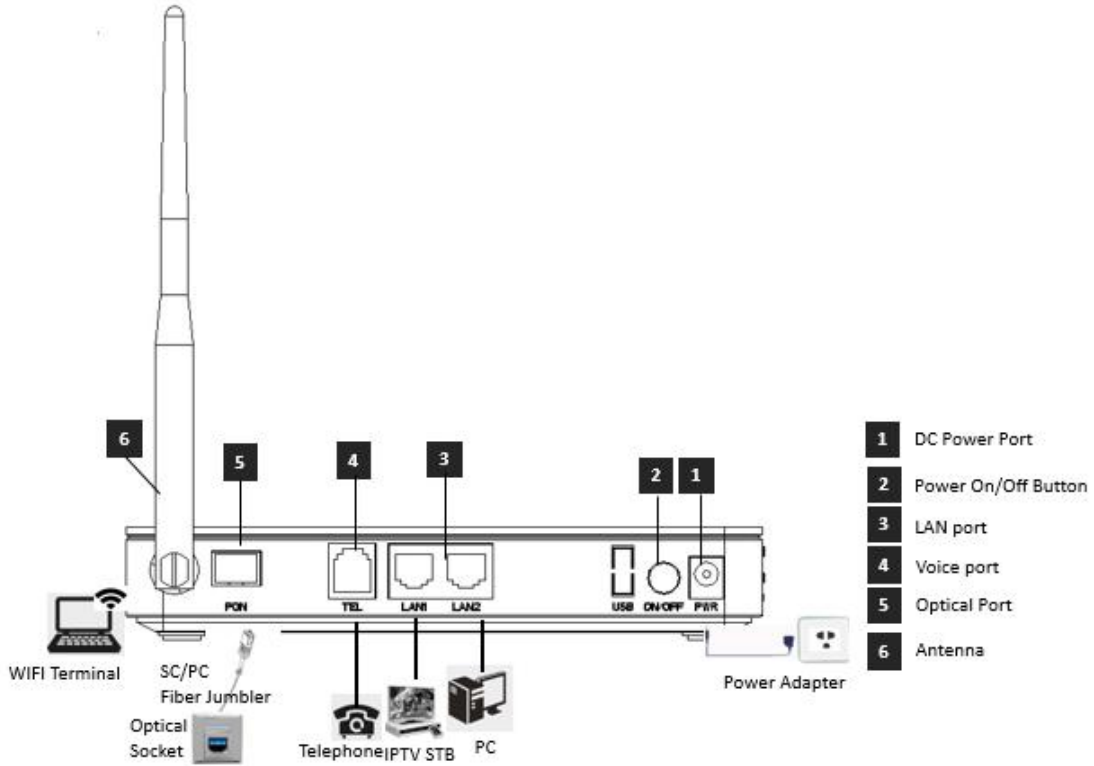
GPON is the latest generations of access network technology. ITU-T G.984 is the standard protocol of GPON. The GPON standard differs from other PON standards in that it achieves higher bandwidth and higher efficiency using larger, variable-length packets. GPON offers efficient packaging of user traffic, with frame segmentation allowing higher quality of service (QoS) for delay-sensitive voice and video communications traffic. GPON networks provides the reliability and performance expected for business services and provides an attractive way to deliver residential services. GPON enables Fiber To The Home (FTTH) deployments economically resulting to accelerated growth worldwide.

OP-B0210W provide one POTS ports, two GE auto-adapting Ethernet ports, one 802.11 n/b/g Wi-Fi port. The OP-B0210W features high-performance forwarding capabilities to ensure excellent experience with VoIP, Internet and HD video services. Therefore, the OP-B0210W provides a perfect terminal solution and future-oriented service supporting capabilities for FTTH deployment. It has good third-party compatibility to work with the third party OLT, such as Huawei/ZTE/Fiberhome /Alcatel-Lucen.

Features

- Full compatible with ITU-T G.984
- Support one POTS
- Support two GE auto-adapting Ethernet ports
- Support one 802.11 n/b/g WiFi port
- Support OMCI and TR069 for remote management
- Support Web for local management
- Support Auto-negotiation andMDI/MDIX
- Support the Ethernet interface rate, working mode andflows control
- Support loopback at UNI
- Support packet filtering and anti-illegal message attack protection
- Support performance statistics of Ethernet lines
- Support VLAN tagged label processing, traffic classification and packet filtering, STP/RSTP etc.
- Support DHCP Option60 reporting the location information of the Ethernet interface
- Support PPPoE+ for accurate subscribers identification
- Support H.248、 MGCPandSIP protocol
- Support IGMP Snooping
- Support AES-128

Interface introduction



Indicator			Description
1	WIFI	WIFI	Blinking : Data is being transmitted On : Wi-Fi function Opens
2	LOS	GPON optical signals	On: Optical power lower than receiver sensitivity ; Off: Optical in normal
3	PON	ONT Register	On: Success to register to OLT; Blinking: In process of registering to OLT; Off: In process of registering to OLT;

4	TELn	Telephone port status	On : The connection between the TEL port and the voice server has been set up Blinking : The voice service of the TEL port is established; Off : The connection between the TEL port and the voice server is not set up.
5	LANn	LAN port status	On: Ethernet connection is normal; Blinking: Data is being transmitted through the Ethernet port; Off: Ethernet connection is not set up;
6	PWR	Power status	On: The ONT is power on; Off: The ONT is Power off;

Parameter

Item	Parameters	Specification
Interface	PON Port	1*GPON port, FSAN G.984.2 standard, Class B+ Downstream Data Rate: 2.488Gbps Upstream Data Rate: 1.244Gbps SC/PC single mode fiber 28dB Link loss and 30KM distance with 1:128
	Ethernet Port(LAN)	2*10/100/1000M Auto-negotiation RJ45 ports Full Duplex / Half-Duplex RJ45, Auto-MDI/MDI-X Transmission Distance 100 Meter
	POTS Port	1*RJ11 with 3REN Max 1km distance Balanced Ring, 55V RMS
	Power Supply Port	12V DC input
	PON Optical Parameter	Wavelength: Tx 1310nm, Rx1490nm Tx Optical Power: 0~5dBm Rx Sensitivity: -27dBm Saturation Optical Power: -8dBm Connector Type: SC Optical Fiber: 9/125µm single-mode fiber
	Data Transmission Parameter	PON Throughput: Downstream 2.488Gbit/s ; Upstream 1.244Gbit/s Ethernet: 1000Mbps Packet Loss Ratio: <1*10E-12 latency: <1.5ms
	Management	Network Management

	Management Function	Status monitor, Configuration management, Alarm management, Log management
Environmental Specifications	Shell	Plastic casing
	Power	External 12V 1A AC/DC power supply adapter Power consumption: <7W
	Dimensions	170mm(L)*130mm(W)*30mm(H) 0.3kg
	Environment	Operating Temperature: 0~45℃ Storage Temperature: -40~85℃ Operating Humidity: 10%~90%(Non-condensing) Storage Humidity: 10%~90%(Non-condensing)

WIFI Features

- IEEE 802.11n compliant, 2.4 GHz
- Full IEEE 802.11b/g legacy compatibility with enhanced performance
- Two-stream spatial multiplexing up to 300 Mbps PHY data rates
- Support multi-SSID (Maximum 4 SSID)
- Support automatic channel selection
- Support hide SSID
- Support wireless security of 64/128 bit WEP、802.1x、WPA and WPA2。

WIFI Specification		
Performance parameters	Standard	IEEE802.11b/g/n
	Frequency	2.400 ~ 2.500 GHz
	Wireless data rate	IEEE 802.11b: 1,2,5.5,11Mbps IEEE 802.11g: 6,9,12,18,24,36,48,54Mbps IEEE 802.11n: up to 200 Mbps
	Modulation schemes	802.11g: 64QAM, 16QAM, QPSK, BPSK, DSSS 802.11b: CCK, DQPSK, DBPSK HT20: 64 QAM, 16QAM, QPSK, BPSK
	Channel	13*Channel, configurable to meet the standard of USA, Canada, Japan and China
	RF receive sensitivity	802.11b: -96dBm @ 1 Mbps; -93dBm @ 2 Mbps; -91dBm @ 5.5 Mbps; -88dBm @ 11 Mbps 802.11g: -90dBm @ 6 Mbps; -89dBm @ 9 Mbps; -89dBm @ 12 Mbps; -867dBm @ 18 Mbps; -83dBm @ 24 Mbps; -79dBm @ 36 Mbps; -75dBm @ 48 Mbps; -75dBm @ 54 Mbps 802.11n: -96dBm @ 1 Mbps; -88dBm @ 11 Mbps;

		-90dBm@6Mbps; -75dBm@54Mbps; -86dBm@m0/20MHz;-69dBm@m15/20MHz;
	RF TxPower	<ul style="list-style-type: none"> •TX power out B mode @ 11 Mbps: 18dBm +/- 2 • TX power out G mode @ 54 Mbps: 16dBm +/- 2 • TX power 11n mode @ HT20: 16 dBm +/-2
	Encryption Mode	64-bit, 128-bit WEP, AES, TKIP, WPA, WPA2, 802.1x
	Transmission distance	100m indoors coverage area 300m outdoors coverage area (varying depending on the actual environment)

Application

- ✧ Solution: FTTH、FTTB、FTTO、PON+EOC
- ✧ Business: Broadband Internet、Voice、IPTV、VOD、IP Camera、WIFI

Network Construction

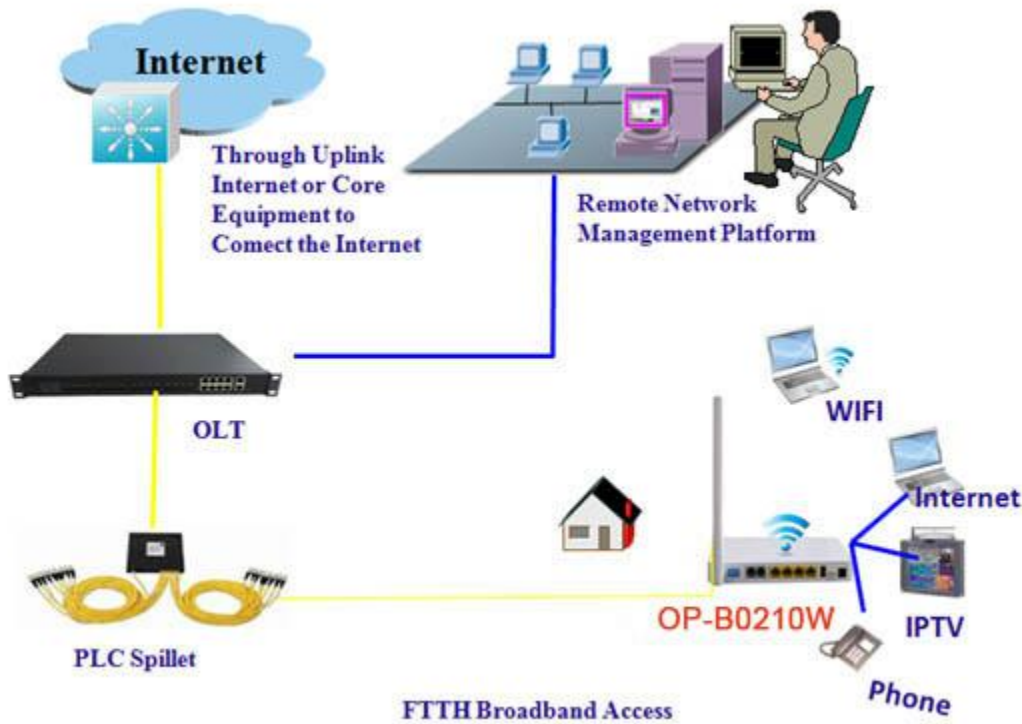


Figure: OP-B0210W Application Diagram

Ordering Information

Product Name	Product Model	Descriptions
HGU GPON ONT	OP-B0210W	4*GE Ethernet interface, 2*POTS interface, 1 GPON interface, plastic casing, external power supply adapter

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