FD602XW-G-Z410 1GE+1FE+1POTS+WIFI ONU

Overview

FD602XW-G-Z410 GPON ONT 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.
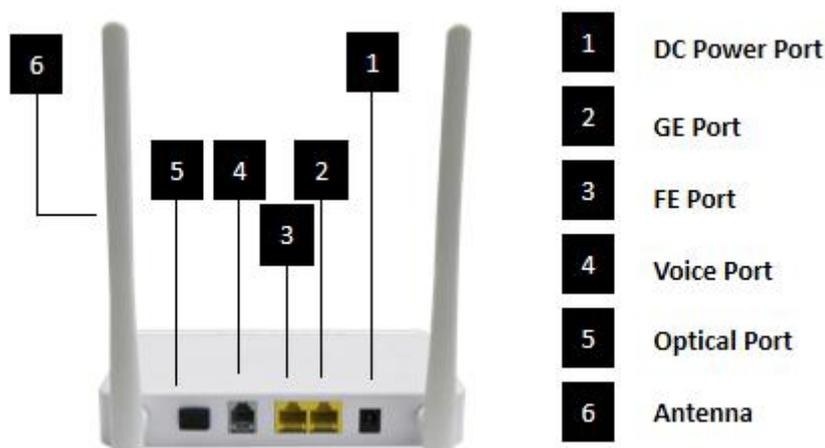
FD602XW-G-Z410 features high-performance forwarding capabilities to ensure excellent experience with VoIP, Internet and HD video services. It has good compatibility to work with the third party OLT, such as Huawei/ZTE/Fiberhome/Alcatel-Lucent. It provides a perfect terminal solution and future-oriented service supporting capabilities for FTTH deployment.
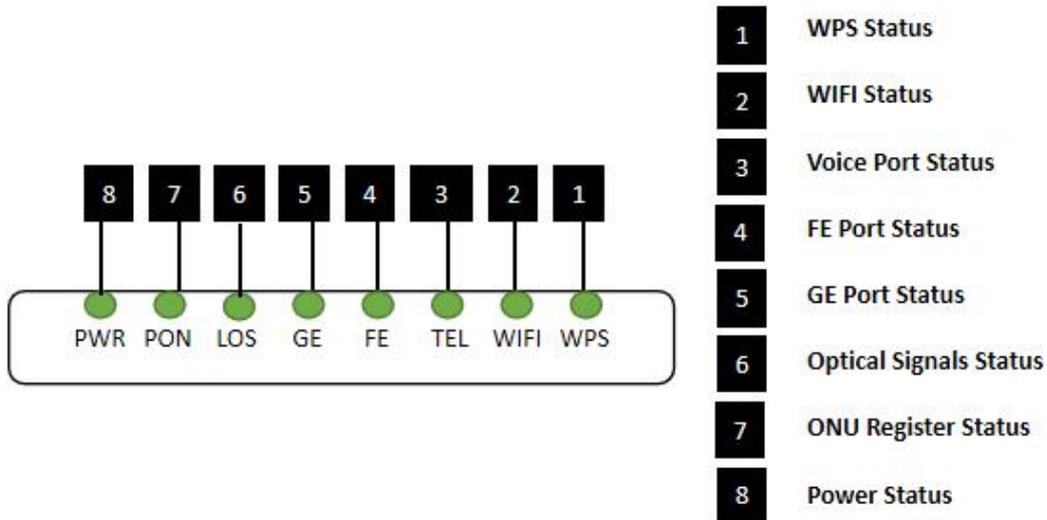
FD602XW-G-Z410 integrates wireless function which meets 802.11 b/g/n technical standards. It has two external high gain omnidirectional antennas, the wireless transmission rate up to 300Mbps. It has the characteristics of strong penetrating power and wide coverage. It can provide users with more efficient data transmission security.

Features

- In compliant with ITU - T G.984.1/2/3/4 standard

- Meet 802.11 n/b/g WIFI technical standard

- Support ONU auto-discovery/Link detection/remote upgrade of software

- Support Ethernet line performance statistics function

- Support OMCI+TR069 management mode

- Support VLAN tag/untag

- Support multicast Snooping/Proxy

- Support DHCP/PPPOE/Static IP internet mode

- Support port binding

- Support loop-detection function

- Support device-based speed limitation

- Support MAC-address filter and URL access control

- Support H.248 and SIP protocol

- Support AES encryption and decryption

- Support Dynamic Bandwidth Allocation (DBA)

- Support ACL configure data packet filter flexibly

- EMS network management based on SNMP ,convenient for maintenance

Product Interface and LED Definitions

1	DC Power Port
2	GE Port
3	FE Port
4	Voice Port
5	Optical Port
6	Antenna

Company Address: Floor 6, Building F, Songbai Road 1008, Sunshine Community，Xili Street, Nanshan District, Shenzhen(518108)
Factory Address: Bldg B, Wentao Industrial zone, Yingrenshiyongxin Village, Shiyan Street, Baoan district, Shenzhen, Guangdong, China (518055)
Tel: +86-755-26014509/4710/4711   Fax:+86-755-26014506   Email: marketing@cdatatec.com
Website: www.cdatatec.com

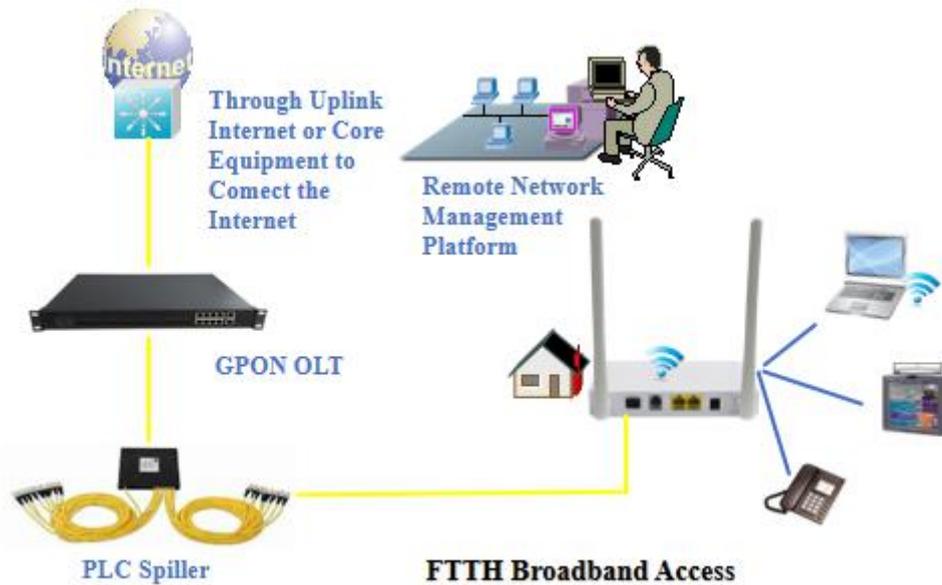|	Indicator		Description
1	WPS	WPS	Blinking: In the connected state, waiting for the device to access; Off: In the not connected state;
2	WIFI	WIFI	Blinking：Data is being transmitted On：WIFI function Opens
3	TEL	Telephone port status	On：The connection between the TEL port and the voice server has been 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.
4	FE	FE port status	On: Ethernet connection is normal; Blinking: Data is being transmitted through the Ethernet port; Off: Ethernet connection is not set up;
5	GE	GE port status	On: Ethernet connection is normal; Blinking: Data is being transmitted through the Ethernet port; Off: Ethernet connection is not set up;
6	LOS	GPON optical signals	On: Optical power lower than receiver sensitivity ; Off: Optical in normal
7	PON	ONT Register	On: Success to register to OLT; Blinking: In process of registering to OLT; Off: In process of registering to OLT;
8	PWR	Power status	On: The ONT is power on; Off: The ONT is Power off;

🔳 Specification

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/UPC single mode fiber 28dB Link loss and 20KM distance with 1:128
	Ethernet Port(LAN)	1*10/100/1000M and 1*10/100M ports Full Duplex / Half-Duplex RJ45, Auto-MDI/MDI-X Transmission Distance 100 Meter
	POTS Port	1*RJ11 Max 1km distance Balanced Ring, 50V RMS
	Power Supply Port	12V DC input
Performance Parameters	PON Optical Parameter	Wavelength: Tx 1310nm, Rx1490nm Tx Optical Power: 0.5～5dBm Rx Sensitivity: -28dBm Saturation Optical Power: -8dBm
	Data Transmission Parameter	PON Throughput: Downstream 2.488Gbit/s；Upstream 1.244Gbit/s Ethernet: 1000Mbps or 100Mbps Packet Loss Ratio: <1*10E-12 latency: <1.5ms
Management	Management Mode	OMCI, TR069, WEB, Telnet
	Management Function	Status monitor, Configuration management, Alarm management, Log management
Environmental Specifications	Power	External 12V/0.6A DC power supply adapter Power consumption: <6.5W
	Dimension and Weight	Item Dimension：160mm(L)*139.5mm(W)*28.5mm(H) Item Net Weight：about 300g
	Environment	Operating Temperature：0～40℃ Operating Humidity：10%～90%(Non-condensing)

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🔳 WIFI Features

Item		Parameter
Performance parameters	Operating Mode	Router or bridge
	Antenna gain	5dBi
	WIFI antenna	2 external antennas
	Throughput	IEEE 802.11b: 11Mbps
		IEEE 802.11g: 54 Mbps
		IEEE 802.11n: 300Mbps
	Frequency	2.412 ~ 2.472 GHz
	Channel	13*Channel, configurable to meet the standard of USA, Canada, Japan and China
	Modulation	DSSS , CCK and OFDM
	Coding	BPSK, QPSK, 16QAM and 64QAM
	Receive sensitivity	802.11b: -83dBm @ 1 Mbps; -79dBm @ 5.5 Mbps; -76dBm @ 11 Mbps 802.11g: -85dBm @ 6 Mbps; -77dBm @ 24 Mbps; -68dBm @ 54 Mbps; 802.11n HT20： -85dBm @ MCS0; -73dBm @ MCS4; -67dBm @ MCS7 802.11n HT40： -82dBm @ MCS0; -70dBm @ MCS4; -64dBm @ MCS7
	TX power	802.11b: 19 ± 1dBm @ 1 Mbps 19±1dBm @ 5.5 Mbps; 18 ±1dBm @ 11 Mbps; 802.11g: 18 ± 1dBm @ 6 Mbps 17±1dBm @ 24 Mbps; 16 ±1dBm @ 54 Mbps; 802.11n HT20: 17 ± 1dBm @ MCS0; 16 ± 1dBm @ MCS4 ; 15 ± 1dBm @ MCS7 802.11n HT40: 17 ± 1dBm @ MCS0; 16 ± 1dBm @ MCS4 ; 15 ± 1dBm @ MCS7
	Encryption Mode	802.11i security: WEP-64/128, TKIP (WPA-PSK) and AES (WPA2-PSK)

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Network Application

- ✧ Solution：FTTH, FTTO
- ✧ Business：Broadband Internet, Voice, IPTV, WIFI

Ordering Information

Product Name	Product Model	Descriptions
1GE+1FE+1POTS +WIFI	FD602XW-G-Z410	1*10/100/1000M and 1*10/100M Ethernet interface, 1*POTS interface, 1 GPON interface, support WIFI function, plastic casing, external power supply adapter

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