

## FD804GW-AG-Z710 4GE+2POTS+CATV+WIFI ONT



### Brief Views

FD804GW-AG-Z710 is an indoor fiber broadband access terminal. It can be used in connection with our company FD16 series GPON OLT. It can also interconnect with the mainstream manufacture (Huawei / ZTE / Fiberhome) GPON OLT to provide users with Internet, VOIP and CATV services based on GPON technology. The device performance and functions also meet ITU-T G984.X technical specifications.

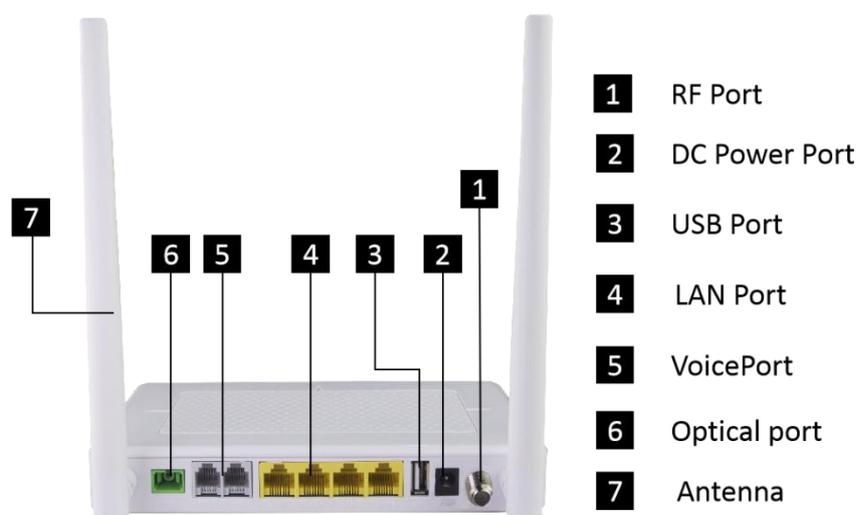
FD804GW-AG-Z710 integrates wireless function which meets 802.11 b/g/n technical standards. It has two external high gain omnidirectional antennas and wireless transmission rate up to 300Mbps. It has the characteristics of strong penetrating power and wide coverage. It can provide users with more efficient data transmission security.

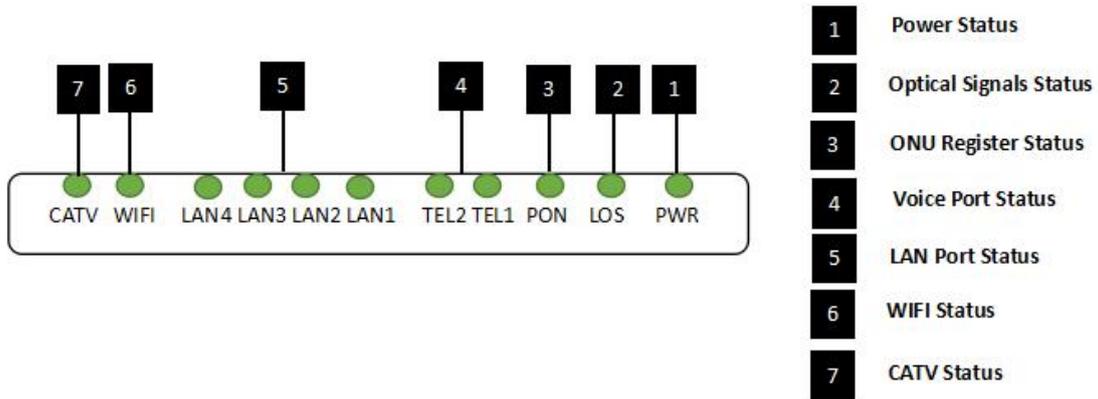
With support for IPv6 / IPv4 Dual Stack function, the FD804GW-AG-Z710 helps operators and end users to achieve IPv6-based network with smooth evolution. This will create more business space for operators and bring future-oriented digital life to users.

## Functional Feature

- In compliant with ITU - T G.984.1/2/3/4 standard
- Single-fiber access, provide Internet, voice, CATV and WIFI multiple services
- Meet 802.11 b/g/n 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 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
- Support remote CATV port management

## Product Interface and LED Definitions





Indicator			Description
1	PWR	Power status	On: The ONT is power on; Off: The ONT is Power off;
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	TEL1-2	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	LAN1-4	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	WIFI	WIFI	Blinking: Data is being transmitted On: WIFI function Opens
7	CATV	CATV status	On: CATV optical normal Off: The CATV signals are not received

## Specification

Item		Parameter
Interface	PON Interface	1*GPON port, FSAN G.984.2 standard, Class B+ Downstream Data Rate: 2.488Gbps Upstream Data Rate: 1.244Gbps SC/APC single mode fiber 28dB Link loss and 20KM distance with 1:128
	CATV Interface	1 RF output F-Type Connector
	POTS Port	2*RJ11 Max 1km distance Balanced Ring, 50V RMS

	Ethernet Interface	4*10/100/1000M auto-negotiation Full/half duplex mode RJ45 connector Auto MDI/MDI-X 100m distance
	USB interface	1*USB 2.0 interface Transmission Rate: 480Mbps
	Power Interface	12V DC Power supply
<b>Performance Parameters</b>	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 Packet Loss Ratio: <1*10E-12 latency: <1.5ms
<b>Network Management</b>	Management Mode	OMCI, TR069, WEB, Telnet
	Management Function	Status monitor, Configuration management, Alarm management, Log management
<b>Physical Features</b>	Power	External 12VDC/1.5A power supply adapter Power consumption: <15W
	Physical Specifications	Item Dimension: 240mm(L) x 240mm(W) x 24mm (H) Item Net Weight: about 308g
	Environmental Specifications	Operating temperature: 0 to 40°C Operating humidity: 10% to 90%(Non-condensing)


**WIFI Features**

	Item	Parameter
<b>Performance parameters</b>	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)	


**CATV**

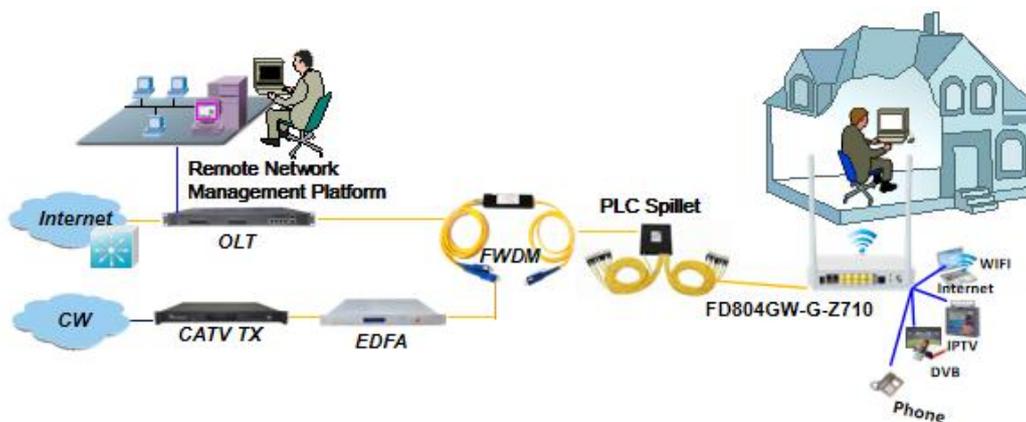
Item	Parameter
Wavelength	1550nm
Optical return loss	>45dB
Input optical power	-18dBm~0dBm
RF frequency	47MHz~1000MHz
RF output lever	82dBuV (@-12~-2dBm@85MHz)
CNR	>41dB (@-10dBm@DS22 Channel)
CSO	>58dBc (@-10dBm@DS22 Channel)
CTB	>58dBc (@-10dBm@DS22 Channel)

RF output return loss	>12dB
RF impedance	75Ω
AGC function	Support

## Network Application

Typical Solution: FTTH, FTTO

Typical Business: Internet, IPTV, CATV, Voice, WIFI



## Ordering Information

Product Name	Product Model	Descriptions
Triple-play ONU	FD804GW-AG-Z7 10	4*10/100/1000M Ethernet interface, 1 GPON interface, 2 POTS interface, 1 USB interface, 1 RF interface, built-in FWM, support AGC function, support WIFI function, plastic casing, external power supply adapter