

## FD604XW-IX-Z410 1GE+3FE+1POTS+WIFI Dual-Mode ONU



### Brief Views

FD604XW-IX-Z410 dual-mode ONU supports EPON and GPON two modes access. The ONU automatically switches into the corresponding PON mode by identifying the local OLT mode to complete GPON or EPON adaptive access.

FD604XW-IX-Z410 features high-performance forwarding capabilities to ensure excellent experience with VoIP, Internet and HD video services. It fully meets the ITU-T technical standards and have good compatibility with third party OLT. It provides a perfect terminal solution and future-oriented service supporting capabilities for FTTH deployment.

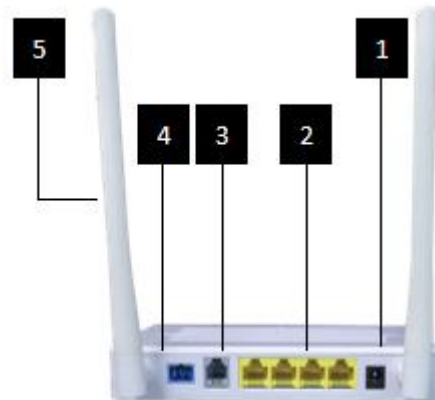
FD604XW-IX-Z410 integrates wireless function which meets 802.11 b/g/n technical standards. It has two external high gain omnidirectional antennas, the wireless transmission rate up to 300Mbps. It has the characteristics of strong penetrating power and wide coverage. It can provide users with more efficient data transmission security.

### Functional Feature

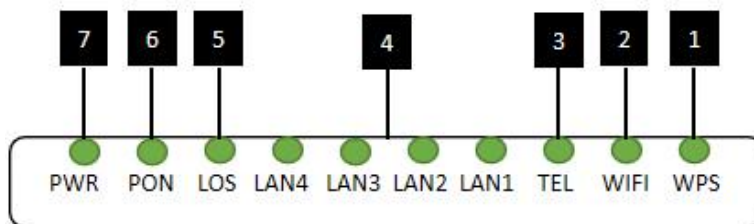
- In compliant with ITU-T G.984 and IEEE802.3ah standard
- Support ONU auto-discovery/Link detection/remote upgrade of software
- WIFI series meet 802.11 b/g/n technical standards
- Support VLAN transparent, tag configuration

- Support multicast Snooping/Proxy
- Support DHCP/Static/PPPOE internet mode
- Support port-binding
- Support OAM/OMCI+TR069 remote management
- Support data encryption and decryption function
- Support loop-detection function
- Support device-based speed limitation
- Support MAC filter and URL access control
- Support H.248 and SIP protocol
- Support power-off alarm function ,easy for link problem detection
- EMS network management based on SNMP ,convenient for maintenance

## Product Interface and LED Definitions



- 1 DC Power Port
- 2 LAN Port
- 3 Voice Port
- 4 Optical Port
- 5 Antenna



- 1 WPS Status
- 2 WIFI Status
- 3 Voice Port Status
- 4 LAN Port Status
- 5 Optical Signals Status
- 6 ONU Register Status
- 7 Power Status

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



## Specification

| Item      |                     | Parameter   |
|-----------|---------------------|---|
| Interface | EPON/GPON Interface | SC/UPC single mode single fiber<br>GPON: FSAN G.984.2 standard, Class B+<br>EPON: 1000BASE-PX20+ symmetric<br>GPON: 2.488Gbps/1.244Gbps downstream/upstream<br>EPON: 1.25Gbps downstream/upstream<br>Wavelength: Transmit: 1310nm Receiver: 1490nm<br>Receiving sensitivity : GPON: -28dBm EPON: -27dBm<br>Saturated power : GPON: -8dBm EPON: -3dBm<br>Transmitting power : GPON: 0.5~5dBm EPON:0~4dBm |
|           | Ethernet Interface  | 1*10/100/1000M and 3*10/100M auto-negotiation<br>Full/half duplex mode<br>RJ45 connector<br>Auto MDI/MDI-X<br>100m distance   |
|           | POTS Interface      | 1*RJ11<br>Max 1km distance<br>Balanced Ring, 50V RMS  |
|           | Power Interface     | 12V DC Power supply   |
| Network   | Management          | OMCI, OAM, TR069, WEB, Telnet   |

|                          |                      |  |
|--------------------------|----------------------|--|
| <b>Management</b>        | Mode                 |  |
|                          | Management Function  | Status monitor, Configuration management, Alarm management, Log management   |
| <b>Physical Features</b> | Power                | External 12V/0.6A DC power supply adapter<br>Power consumption: <6.5W        |
|                          | Dimension and Weight | Item Dimension: 160mm(L)*139.5mm(W)*28.5mm(H)<br>Item Net Weight: about 300g |
|                          | Environment          | Operating Temperature: 0~40°C<br>Operating Humidity: 10%~90%(Non-condensing) |



## WIFI Specification

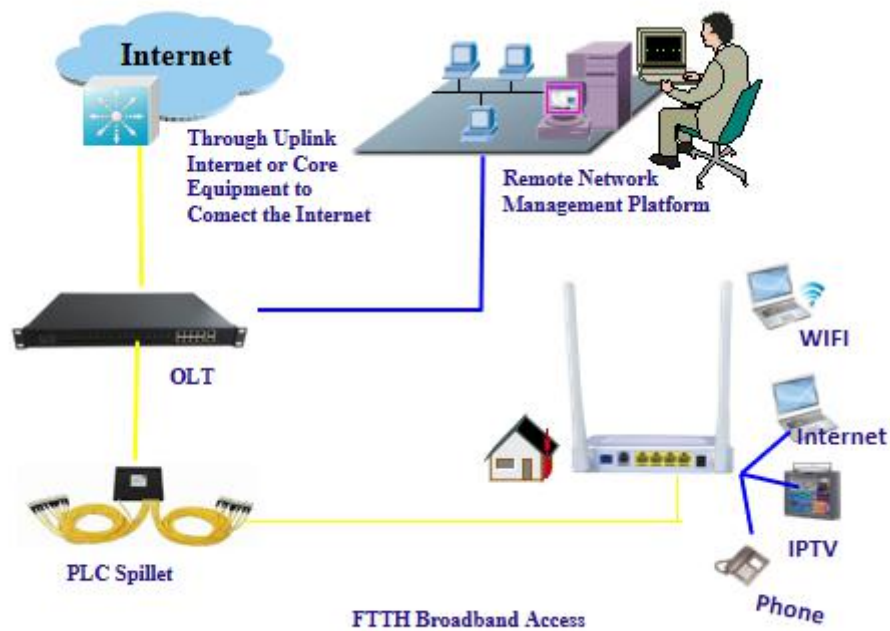
| Item                          | Parameter           |  |
|-------------------------------|---------------------|--|
| <b>Performance parameters</b> | Operating Mode      | Router or bridge   |
|                               | Antenna gain        | 5dBi   |
|                               | WIFI antenna        | 2 external antennas  |
|                               | Throughput          | IEEE 802.11b: 11Mbps<br>IEEE 802.11g: 54 Mbps<br>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:<br>-83dBm @ 1 Mbps; -79dBm @ 5.5 Mbps;<br>-76dBm @ 11 Mbps<br>802.11g:<br>-85dBm @ 6 Mbps; -77dBm @ 24 Mbps;<br>-68dBm @ 54 Mbps;<br>802.11n HT20:<br>-85dBm @ MCS0; -73dBm @ MCS4;<br>-67dBm @ MCS7<br>802.11n HT40:<br>-82dBm @ MCS0; -70dBm @ MCS4;<br>-64dBm @ MCS7 |
|                               | Output power        | 802.11b:<br>19 ± 1dBm @ 1 Mbps 19±1dBm @ 5.5 Mbps;<br>18 ±1dBm @ 11 Mbps;<br>802.11g:<br>18 ± 1dBm @ 6 Mbps 17±1dBm @ 24 Mbps;   |

|  |                 |   |
|--|-----------------|---|
|  |                 | 16 ±1dBm @ 54 Mbps;<br>802.11n HT20:<br>17 ± 1dBm @ MCS0; 16 ± 1dBm @ MCS4 ;<br>15 ± 1dBm @ MCS7<br>802.11n HT40:<br>17 ± 1dBm @ MCS0; 16 ± 1dBm @ MCS4 ;<br>15 ± 1dBm @ MCS7 |
|  | Encryption Mode | 802.11i security: WEP-64/128, TKIP (WPA-PSK) and AES (WPA2-PSK)   |

## Network Application

Typical Solution: FTTH

Typical Business: INTERNET, Voice, WIFI



## Ordering Information

| Product Name       | Product Model   | Descriptions   |
|--------------------|-----------------|--|
| 1GE+3FE+1POTS+WIFI | FD604XW-IX-Z410 | 1*10/100/1000M and 3*10/100M Ethernet interface, 1 EPON/GPON adaptive interface, 1 POTS interface, support 300Mbps WIFI, plastic casing, external power supply adapter |