

## FD604G-E-Z710 4GE+2POTS EPON ONU



### Overview

FD604G-E-Z710 EPON HGU is one of the EPON 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 EPON network.

EPON is the latest generations of access network technology. IEEE802.3ah is the standard protocol of EPON. The EPON standard differs from other PON standards in that it achieves higher bandwidth and higher efficiency using larger, variable-length packets. EPON offers efficient packaging of user traffic, with frame segmentation allowing higher quality of service (QOS) for delay-sensitive voice and video communications traffic. EPON networks provides the reliability and performance expected for business services and provides an attractive way to deliver residential services. EPON enables Fiber To The Home (FTTH) deployments economically resulting to accelerated growth worldwide.

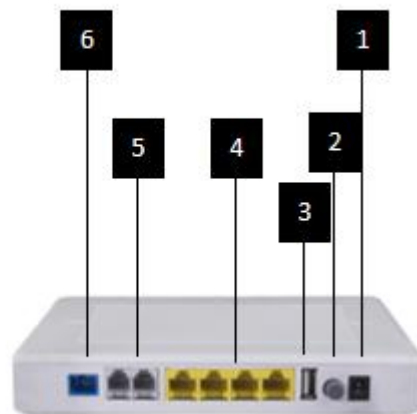
FD604G-E-Z710 features high-performance forwarding capabilities to ensure excellent experience with VoIP, Internet and HD video services. It provides a perfect terminal solution and future-oriented service supporting capabilities for FTTH deployment. It has good compatibility to work with the third party OLT, such as Huawei/ZTE/Fiberhome.

### Features

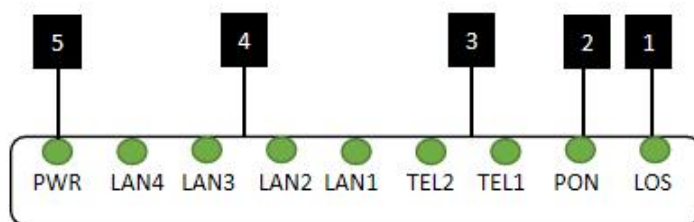
- Full compatible with IEEE802.3ah
- Support ONU auto-discovery/Link detection/remote upgrade of software
- Support Ethernet line performance statistics function
- Support OAM+TR069 management mode

- 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 Triple Churning 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 Power on/off Button
- 3 USB Port
- 4 LAN Port
- 5 Voice Port
- 6 Optical Port



- 1 Optical Signals Status
- 2 ONU Register Status
- 3 Voice Port Status
- 4 LAN Port Status
- 5 Power Status

Indicator			Description
1	LOS	EPON optical signals	On: Optical power lower than receiver sensitivity ; Off: Optical in normal
2	PON	ONT Register	On: Success to register to OLT; Blinking: In process of registering to OLT; Off: In process of registering to OLT;
3	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.
4	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;
5	PWR	Power status	On: The ONT is power on; Off: The ONT is Power off;



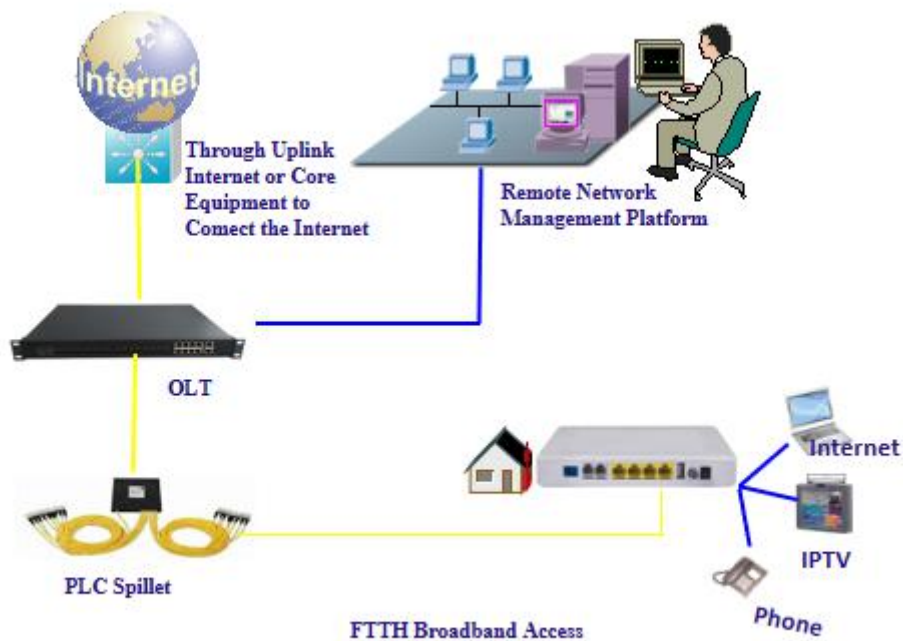
## Specification

Item	Parameters	Specification
Interface	PON Port	1 EPON optical interface Meet 1000BASE-PX20+ standard Symmetric 1.25Gbps upstream/downstream SC/UPC single-mode fiber split ratio: 1:64 Transmission distance 20KM
	Ethernet Port(LAN)	4*10/100/1000M adaptive ports Full Duplex / Half-Duplex RJ45, Auto-MDI/MDI-X Transmission Distance 100 Meter
	POTS Port	2*RJ11 Max 1km distance Balanced Ring, 50V RMS
	USB interface	1*USB 2.0 interface Transmission Rate: 480Mbps
	Power Supply Port	12V DC input
Performance Parameters	PON Optical Parameter	Wavelength: Tx 1310nm, Rx1490nm Tx Optical Power: 0~4dBm Rx Sensitivity: -27dBm Saturation Optical Power: -3dBm
	Data Transmission	PON Throughput: Downstream 1.244Gbit/s; Upstream

	Parameter	1.244Gbit/s Ethernet: 1000Mbps Packet Loss Ratio: <math><1 \times 10^{-12}</math> latency: <math><1.5\text{ms}</math>
Management	Network Management	OAM, TR069, WEB, Telnet
	Management Function	Status monitor, Configuration management, Alarm management, Log management
Environmental Specifications	Power	External 12V/1A DC power supply adapter Power consumption: <math><10\text{W}</math>
	Dimension and Weight	Item Dimension: 240mm(L)*240mm(W)*24mm(H) Item Net Weight: about 300g
	Environment	Operating Temperature: 0~40°C Operating Humidity: 10%~90%(Non-condensing)

## Network Application

- ◇ Solution: FTTH, FTTO
- ◇ Business: Broadband Internet, Voice, IPTV



 **Ordering Information**

Product Name	Product Model	Descriptions
4GE+2POTS	FD604G-E-Z710	4*10/100/1000M Ethernet interface, 2*POTS interface, 1*EPON interface, 1*USB interface, plastic casing, external power supply adapter