

## FWG-OLT5600T Series, Cassette 8 / 16 PON GPON OLT



### 1. Product Description

FWG-OLT5600T is a small-scale plug-in OLT, which is designed for GPON access applications, developed by FULLWELL and domestic chip manufacturing company. This product complies with international standard IEEE802.3-2005 and national standards " Technical Requirements for Passive Optical Network (GPON) Based on Ethernet Mode ", can provide users with access to integrated services such as broadband Internet, IP voice, IPTV, and CATV. High cost performance, stable and reliable operation quality, suitable for the construction of triple play network for new apartments, high-end hotels, high-end residential buildings, etc. and operators to invest in triple play network: CATV, broadband, and telephone.

### 2. Product Feature

- ◆ Suitable for FTTH or FTTP application scenarios, optional models provide multiple interfaces( such as GE, FE, CATV, etc.) to meet different services access requirements;
- ◆ Voice supports H.248, MGCP and SIP protocol.
- ◆ Supports CTC OAM extended protocol.
- ◆ GPON interface with optical power detection function.
- ◆ Plug and play, with automatic discovery, automatic configuration, automatic upgrade and other functions;
- ◆ Uplink port: Flexible design supports multiple types of network interfaces, and can be equipped with optical or electrical ports according to network conditions
- ◆ Network port with 1.5KV surging protection function, strong environmental adaptability

### 3. Technical Parameters

#### (1). Equipment Composition

Name of Parts	Number of Boards	Specification Description
Function Subbox	1	1U chassis with 10G switching board.
Core Control Panel(SWA)	1	1 FE port, 1 debug port, hot-swappable main control panel, 10 Gigabit non-blocking switching.
GPON Interface Disk	8/16	8 / 16-way GPON interface disk, in line with IEEE802.3-2005 EPON standard supports 20km long transmission (standard configuration does not include e

		SFP module).
Uplink Interface Disk(HUP)	1	Hot-swappable 4-way GE interface disk, SFP slot, supports 4GE + 10GE XFP (standard configuration does not include SFP module).
Fan	1	Hot-swappable fan.
Power Supply	1	Hot-swappable power disk, supports 220VAC power / 48VDC power supply (with UPS charging device). Configure 2 power inputs for dual power redundant hot backup.

## (2). Hardware Characteristics

Device Parameters	Size	486mm*103mm*384mm(Width * Height * Depth)
	Weight	5Kg
	Power Consumption	≤40W
	Working Environment	Temperature: -10 ~ +50℃; Humidity: 10 ~ 90%(Non-condensing)
	Storage Environment	Temperature: -25 ~ +70℃; Humidity: 10 ~ 90%(Non-condensing)
Power Supply	VDC / VAC	36 ~ 75 VDC/176 ~ 264 VAC
Device Interface	Uplink Ethernet Interface	1 X10GE (XFP connector), 4XGE interfaces (Electrical port or SFP connector)
	GPON Interface	8/16 GPON SFP interface
	Console Debug Port	1 port, Interface meets RS232 technical specifications
	Out-of-band Management Interface	1 port, Interface meets 100Base-TX technical specifications
	Monitoring Alarm Interface	1 port, Interface meets RS485 technical specifications (and provides dry node monitoring)

## (3). Advanced Features

Exchange Function	10-Gigabit switch backplane; Non-blocking wire-speed switching capability; 16K MAC address table; Supports for 2K multicast table; Supports for 4K VLAN (802.1Q); Aggregation of up to 1X10GE and uplink 4XGE ports (IEEE 802. ad).
VLAN	Supports IEEE 802.1Q-compliant VLAN; support 4K concurrent VLAN; Powerful VLAN extension function, supports VLAN Stacking / Trunk / Translation and flexible QinQ functions.
RSTP	Supports STP, RSTP.
IGMP	Supports IGMPv1 / v2 protocol; Supports IGMP Snooping / Proxy, controllable multicast
QoS&ACL	Supports CAR function; Supports QoS Profile management mode, allowing customers to formulate QoS service plans.
Storm Suppression	Supports broadcast, multicast and DLF broadcast storm suppression, according to the set of packets per second (pps) suppression.
Flow Control	Supports IEEE 802.3x flow control in full duplex mode; Back pressure flow control in half duplex mode.

Encryption & Security	Supports LLID MAC address binding and registration control of ONU. Prevents illegal ONU deception; Supports isolation control between ONUs under the same GPON network; Supports encrypted startup control configuration.
Network Link Test	Supports Ping and Link test for GPON network link diagnosis.
Configuration Recovery	Supports ONU offline configuration. Configures automatic delivery when registering.
Management Method	FTP, Telnet, Console; Supports in-band management and out-of-band management; supports SNMPv1 / v2; Supports IEEE802.3ah OAM.
Management Function	Supports device configuration management, performance management, fault management, resource management, and security management
Redundant Backup	Support VAC and VDC dual power supply protection.

**4. Product Model Series**

FWG-OLT5608T, 8PON GPON OLT

FWG-OLT5616T, 16PON GPON OLT

