

FWG-HGU8020WCS GPON ONT, 1*GE+1*FE+CATV+SAT-IF+WIFI



1. Product Overview

FWG-HGU8020WC GPON ONT is a three-in-one FTTH gateway for small and medium-sized businesses, SOHO office and home users, integrating GPON, WIFI, CATV and SAT-IF functions. This series of products complies with the G.988 international standard and has good interoperability and operability, enabling interoperability with mainstream manufacturers' OLT devices.

FWG-HGU8020WC GPON ONT is based on mature, stable and cost-effective Gigabit GPON technology, which integrates Gigabit Ethernet switching technology and high-quality VoIP technology. It has high reliability, easy management and good quality of service (QoS) guarantee, supports 1Gbps uplink and 2.5Gbps downlink transmission rate, and provides users with flexible bandwidth allocation, Ethernet services and CATV services. Integrated wireless function, in line with 802.11n Wireless standard protocol, external high gain omnidirectional antenna, wireless transmission rate of 300Mbps, strong penetration, wide coverage, providing users with a more efficient data transmission guarantee.

2. Performance Characteristics

- ◆ Plug and play, integrated automatic detection, support remote configuration and remote firmware upgrade;
- ◆ Integrates OMCI and TR-069 remote configuration and maintenance, supports diagnosis monitoring and remote disabling of optical fiber;
- ◆ Support 802.11n 300Mbps Wi-Fi (T / R) function;
- ◆ CATV function can be managed, supporting remote control of CATV + SAT-IF signal by OLT;
- ◆ WAN supports network bridging, routing and hybrid bridging / routing modes; 2048 MAC address capacity;
- ◆ Support VLAN, transparent, tag, translation, trunk, etc.; support port monitoring, port mirroring, port rate limitation, port SLA, etc.; support IEEE802.1p QoS and four level priority queue; support IPv4 / IPv6 IGMP snooping and MLD snooping;
- ◆ Select the high-quality power adapter designed for 5-year continuous operation, is the FTTH single fiber to home network security optical access equipment.

- ◆ White cover + black bottom plastic shell, exquisite texture appearance, show brand strength.

3. Main Parameter

Item		Unit	Parameter
Optical characteristic	Operation Wavelength	nm	GPON: Tx 1310, Rx 1490
			CATV: 1550
	Receive Response	dBm	<-28 (1490nm)
			-2~-18 (Receive 1550nm Optical power range)
	Optic Connector	/	SC/APC
	Transmission Speed	Gbps	Downlink rate 2.5, Uplink rate 1.25
CATV Return Loss	dB	≥45	
CATV RF characteristic	CATV Bandwidth	MHz/dB	45~1000/≤ ±1
	CATV Output RF Level	dBuv	82(AGC:-2~-12dBm)
	Return Loss	dB	≥14 (75 Ω)
	MER	dB	31 (Input: -15dBm) , 34 (Input: -12dBm)
	CTB/CSO/HUM	dB	≥62/≥62/≥45
OLT management CATV+SAT-IF RF			Support OMCI, TR069 On, Off CATV signal
SAT-IF characteristic	Frequency Range	MHz	950~2600
	SAT-IF Output RF Level	dBuv	82(AGC:-2~-12dBm)
	IF Output Power	dBm	-50~-30(Total Output Power)
	Flatness	dB	±1.5
	IMD	dB	-40dBc(Total Output Power≤ -20 dBM)
	Output Impedance	Ω	75
	Return Loss	dB	>12
Others	Wireless WIFI	/	802.11 b/g/n, 2.4GHz 300Mbps
	WAN RJ45 Interface		1 * 100/1000Mbps + 1 * 10 / 100Mbps
	Consumption	W	≤6
	Power Supply	V/A	AV110~255V→DC12V 1A
	Working Temperature	℃	-25~ +65
	Size(L)*(W)*(H)	mm	198*145*31
	Weight	Kg	0.28

4. Products Series

FWG-HGU8020WCS GPON ONT, 1*GE+1*FE+CATV+SAT-IF+WIFI

FWG-HGU8020WC GPON ONT, 1*GE+1*FE+CATV+WIFI

FWG-SFU8020W GPON ONT, 1*GE+1*FE +WIFI

