

# HSGQ-X111WC



## Technical Parameter

Module	Parameter
User Interface	1×10/100/1000M RJ45
	1×10/100M RJ45
	1×POTS
	1×CATV
	2.4G WiFi
PON	EPON&GPON mode adaptive Interface Type: SC-UPC/SC-APC Network coverage radius: 20KM
	GPON: upstream 1.25Gbps/downstream 2.5Gbps Optical receive power: -7dBm~-28dBm Transmitting optical power: 0.5dBm~5dBm
	EPON: upstream 1.25Gbps/downstream 1.25Gbps Optical receive power: -7dBm~-28dBm Transmitting optical power: 0dBm~4dBm
POTS Port	1×RJ11 with 3REN
	Max 1km distance
	Balanced Ring, 55V RMS
Size	160mm(L) × 110mm(W) × 30mm(H)
Environmental	Operating temperature: 0°C~60°C
	Operating humidity: 10%~85%(non-condensing)
	Storage temperature: -40°C~80°C
	Storage humidity: 5%~95%(non-condensing)
Power Supply	12V/1.5A DC
	Power interface size: 2.1mm/5.5mm
Power Consumption	<10W
Management	WEB/TELNET/TR69/OMCI/OAM
CATV	Bandwidth 54-870MHz
	Output resistance 75 ohms

## Key Feature

- Support device-based rate limitation and bandwidth control
- In compliant with IEEE802.3ah & ITU-T G.984.x standard
- WiFi series meet 802.11 b/g/n technical standards
- Up to 20KM transmission distance
- Support data encryption, group broadcasting, etc.
- Support Dynamic Bandwidth Allocation (DBA)
- Support ONU Auto-discovery/Link detection/Remote upgrade of software
- Support VLAN tag/untag configuration
- Support ACL to configure data packet filter flexibly
- Specialized design for system breakdown prevention to maintain stable system
- Support software online upgrading
- Support TR069 for ACS(Auto Config Server)
- Support PPPoE/DHCP Server/IPTV/POTS/NAT
- Support broadband and CATV services
- Support CATV service remote shutdown function
- Support IPv4/IPv6

## Voice Service Function

- With the heartbeat function, support the main producing soft exchange platform
- Support ITU-T G.711, G.723.1, G.729 and other three kinds of compression
- Support high/low speed mode transparent transmission, T38 fax
- Support POTS interface and the three party call, three party support local mixing
- Support POTS port GR909 line test function
- Support dynamic PPPoE, DHCP and static IP
- 7×24 hour call loss is less than or equal to 0.01%
- Support power-off alarm function, easy for link problem detection
- Support port binding
- Support SIP (compatible with IMS), H.248, MGCP three VoIP protocol, and the soft switch platform the mainstream can be good intercommunication
- Support high-speed Modem (56Kbps) dial access; support RFC2833 and redundant RFC2833, ringing, MD5 certification, call forwarding, call waiting, the hotline, alarm clock, abbreviated dialing and other value-added services

## Product Interfaces and Indicators Definitions

POWER	Power Status	On: The ONU is power on Off: The ONU is power off
PON	ONU Register	On: Success to register to OLT Blinking: In process of registering to OLT Off: Fail to register to OLT
STATUS	Optical Signals	On: Optical power is abnormal Off: Optical in normal
LAN	LAN Port Status	On: Ethernet connection is normal Blinking: Data is being transmitted Off: Ethernet connection is not set up
2.4G	2.4G WiFi Status	On: WiFi function opens Blinking: Data is being transmitted Off: WiFi function closes
POTS	POTS Status	On: Voice account registered Off: Voice account not registered
CATV	CATV Status	On: CATV Optical power is okay Off: Not optical power or low optical power

## Ordering Information

Product Model	Descriptions
HSGQ-X111WC	1×10/100/1000M Ethernet interface(RJ45)
	1×10/100M Ethernet interface(RJ45)
	1 EPON & GPON adaptive interface
	2.4G WiFi
	1×POTS
	1×CATV

## WiFi Feature(2.4G)

- WiFi Specification IEEE802.11n compliant, 2.4 GHz
- Full IEEE802.11b/g/n legacy compatibility with enhanced performance
- Two-stream spatial multiplexing up to 300Mbps PHY data rates
- Support multi-SSID (Maximum 4 SSID)
- Support automatic channel selection
- Support hide SSID
- Support wireless security of 64/128 bit WEP, 802.1x, WPA and WPA2

## CATV

Category	Item name	Unit	Parameters
Optical Input	Wavelength	nm	1100-1600
	Input optical power	dbm	-15-0
	Optical return loss	db	>45dB
	AGC range	dbm	-10~0
Link Performance	CNR	db	>45dB
	CTB	db	>60dB
	CSO	db	>60dB
RF Output	RF Impedance	ohm	75
	RF output return loss	db	>14dB
	RF frequency Range	Mhz	47~1000
	RF output lever	dBμV	80

For more information, please visit: <http://www.hsgq.com>

Tel: 0755-8175 5526

Fax: 0755-8958 2791

Email: [hsgq@hsgq.com](mailto:hsgq@hsgq.com)

Factory Address: 5/F, Bldg C, Zone B, Hongfa Technology Industrial Park, Tangtou Community, Shiyuan St., Bao'an District, Shenzhen City, Guangdong Province, PRC China.

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