

HSGQ-X111W



Technical Parameter

Module	Parameter
User Interface	1×10/100/1000M RJ45
	1×10/100M RJ45
	1×POTS
	300 Mbps(2.4GHz)
PON	EPON&GPON mode adaptive Interface Type: SC-UPC/SC-APC Security: ONU authentication mechanism 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~ -27dBm Transmitting optical power: 0dBm~4dBm
Ethernet	1×10/100/1000M+1×10/100M auto-negotiation
	Full/half duplex mode
	RJ45 connector
	Auto MDI/MDI-X 100m distance
POTS Port	1×RJ11 with 3REN
	Max 1km distance
	Balanced Ring, 55V RMS
Capability	Support NAT
	Support PPPoE/DHCP/Static IP/Bridge WAN
QoS	Backpressure flow control(half-duplex)
	IEEE802.3x flow control(full-duplex)
	Prevent Head of Line
	IEEE802.1p, QoS
	WR,SP and FIFO queue scheduling algorithm
Safety	Port rate limit
	IEEE802.1x, access control based upon Port
	support local and remote RADIUS
	CHAP, EAP certification
Size	Storm control, port protection.
	140mm(L) × 90mm(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/1A DC
	Power interface size: 2.1mm/5.5mm
Power Consumption	≤8W
Management	WEB/TELNET/TR069/OMCI/OAM

WiFi Feature(2.4G/5G)

- WiFi Specification IEEE802.11n compliant, 2.4 GHz
- Full IEEE802.11b/g 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

Key Feature

- Support device-based rate limitation and bandwidth control
- In compliant with IEEE802.3ah & ITU-T G.984.x standard
- 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 port VLAN tag/untag configuration
- Support ACL to configure data packet filter flexibly
- Specialized design for system breakd own prevention to maintain stable system
- Support software online upgrading
- Support TR069 for ACS(Auto Config Server)
- Support PPPoE/DHCP Server/NAT
- Support IPv4/IPv6

Voice Service Function

- With the heartbeat function, support the main producing soft exchange platform
- Support ITU-T G.723.1, G.729 and other three kinds of compression
- Support high / low speed mode transparent transmission, T38 two fax
- Support 1 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
LOS	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
WiFi	2.4G WiFi Status	On: WiFi function opens Blinking: Data is being transmitted Off: WiFi function closes
VoIP	POTS Status	On: Voice account Registered Off: Voice account not Registered

Ordering Information

Product Model	Descriptions
HSGQ-X111W	1×10/100/1000M Ethernet interface(RJ45)
	1×10/100M Ethernet interface(RJ45)
	1 EPON & GPON adaptive interface
	300 Mbps(2.4GHz)
	1×POTS

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

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