VoIP ONU

Variants

HSGQ-X101 SC/UPC

Details

The **HSGQ-X101 XPON ONU** is a compact and high-performance optical network unit designed for **FTTH and FTTx broadband deployments**. It supports automatic **EPON / GPON adaptive mode**, 1 Gigabit Ethernet port, and 1 POTS voice port for internet and VoIP services.

With support for TR069 remote management, VLAN, QoS, PPPoE, DHCP, NAT, IPTV, DBA, voice services, and remote software upgrades, the HSGQ-X101 is suitable for telecom operators, ISPs, home users, and office fiber connectivity.

PON Mode	**EPON / GPON**
LAN Port	**1 × GE**
Voice Port	

1 × POTS

Distance

20KM

Key Features

? Supports EPON & GPON Adaptive Mode

? 1 × 10/100/1000M RJ45 Gigabit Ethernet Port

? 1 × POTS Voice Port for VoIP Services

? TR069 Remote Management Supported

? VLAN, QoS, DHCP, PPPoE & NAT Support

? Dynamic Bandwidth Allocation (DBA)

? IPTV & Voice Service Support

? Transmission Distance up to 20KM

Technical Specifications

Category	Specification
Model	HSGQ-X101

Category	Specification
User Interface	1 × 10/100/1000M RJ45 + 1 × POTS
PON Mode	EPON & GPON Adaptive
Optical Connector	SC/UPC or SC/APC
Transmission Distance	Up to 20KM
GPON Speed	Upstream 1.25Gbps / Downstream 2.5Gbps
GPON Optical Power	Tx: 0.5 ~ 5 dBm
GPON Receiver Sensitivity	-7 dBm ~ -28 dBm
EPON Speed	Upstream 1.25Gbps / Downstream 1.25Gbps
EPON Optical Power	Tx: 0 ~ 4 dBm
EPON Receiver Sensitivity	? -27 dBm
Ethernet Interface	10/100/1000M Auto Negotiation, Full/Half Duplex
POTS Port	1 × RJ11 Connector
POTS Distance	Up to 1KM
Power Supply	DC 12V / 1A
Power Consumption	8W
Management	WEB / TELNET / TR069 / OMCI / OAM
Dimensions	132 × 83 × 30 mm

Environmental Specifications

Operating Temperature	0°C to +60°C
Storage Temperature	-40°C to +80°C
Humidity	5% ~ 95% Non-condensing

Voice Service Functions

- Supports SIP Voice Protocol
- Dynamic PPPoE, DHCP & Static IP
- High-Speed Modem Dial Access
- Call Waiting & Hotline Functions
- ITU-T G.711, G.723.1 & G.729
- Echo Cancellation Support
- Three-party Calling Support
- VoIP Voice Communication

Applications

- FTTH Broadband Internet
- ISP Fiber Network Deployment

VoIP Voice Communication

IPTV Service Distribution

Home Fiber Connectivity

Office Fiber Connectivity

Note:
Please select the correct optical connector type **SC/APC** or **SC/UPC** according to your OLT, patch cord, and FTTH network design requirements.

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