

VoIP ONU

Variants

HSGQ-X101 SC/UPC

Details

HSGQ-X101 EPON/GPON ONU with 1GE + 1POTS

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

This ONU supports automatic EPON/GPON mode switching, stable optical transmission up to 20KM, TR069 remote management, VLAN configuration, QoS, PPPoE, IPTV, and voice communication functions for telecom operators and ISPs.

Key Features

- Supports EPON & GPON adaptive mode

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

- 1 × POTS Voice Port

- Supports TR069 Remote Management

- Supports VLAN, QoS, DHCP, PPPoE & NAT

- Supports Dynamic Bandwidth Allocation (DBA)

- Supports IPTV & Voice Services

- Supports Software Remote Upgrade

- Supports Port Binding & ACL Configuration

- Transmission Distance up to 20KM

- Compact Low Power Design

Technical Specifications

Category	Specification
Model	HSGQ-X101
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
Operating Temperature	0°C to +60°C
Storage Temperature	-40°C to +80°C
Humidity	5% ~ 95% (Non-condensing)
Power Supply	DC 12V / 1A

Power Consumption	8W
Management	WEB / TELNET / TR069 / OMCI / OAM
Dimensions	132 × 83 × 30 mm

Voice Service Functions

Supports SIP Voice Protocol

Supports Dynamic PPPoE, DHCP & Static IP

Supports High-Speed Modem Dial Access

Supports Call Waiting & Hotline Functions

Supports ITU-T G.711, G.723.1 & G.729

Supports Echo Cancellation

Supports Three-party Calling

Applications

FTTH Broadband Internet

ISP Fiber Network Deployment

VoIP Voice Communication

IPTV Service Distribution

Home & Office Fiber Connectivity

Note: Select the correct optical connector type (SC/APC or SC/UPC) according to your OLT and fiber network design requirements.