HSGQ-810P XPON MDU 8 Port SFP

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Variants

POE 10/100/1000M Non PoE 10/100/1000M

Details

HSGQ-810P XPON 8-Port MDU PoE ONU

The **HSGQ-810P XPON 8-Port MDU PoE ONU** is an industrial-grade Multi-Dwelling Unit (MDU) designed for **GPON and EPON** fiber access networks. It combines high-speed XPON connectivity with **8 Gigabit Ethernet ports**, optional **PoE output**, and an additional **1.25G SFP uplink slot**, making it an ideal solution for surveillance, FTTH, FTTB, campuses, and smart city deployments.

Supporting **PX20+ optical transmission**, IEEE 802.1Q VLAN, QoS, IGMP Snooping, IPv4/IPv6, remote OLT management, and industrial lightning protection, the HSGQ-810P delivers reliable and secure optical network performance even in demanding outdoor and industrial environments.

Quick Specifications

Network Ports

8 × Gigabit RJ45

PoE Output

30W / Port

PON Interface

GPON / EPON

Optical Class

PX20+

Key Features

GPON / EPON adaptive ONU

8 × 10/100/1000 Mbps Gigabit RJ45 ports

1 × 1.25G SFP slot

Supports 8 PoE ports or Non-PoE version

30W maximum output per PoE port

120W total PoE budget

PX20+ optical transmission class

IEEE 802.1Q VLAN & Multicast VLAN

QoS with DBA, CoS, WR/SP Scheduling

IGMP Snooping multicast support

IPv4 / IPv6 networking

Loop Detection & Storm Control

Industrial metal enclosure

OLT remote management & local console

Applications

Video Surveillance

Power and connect multiple IP cameras over fiber using integrated PoE ports.

Smart City

Suitable for intelligent transportation systems, roadside cabinets, and public infrastructure.

FTTH / FTTB

Provides fiber access and Gigabit Ethernet distribution for residential and commercial buildings.

Industrial Networks

Reliable optical access for factories, campuses, warehouses, and outdoor networking environments.

Technical Specifications

Category	Specification
Model	HSGQ-810P
Product Type	XPON MDU (GPON/EPON Adaptive ONU)
Application	Video Surveillance, Smart City, Smart Transport, FTTH / FTTB

Category	Specification
User Interface	8 × 10/100/1000M RJ45 + 1 × 1.25G SFP Slot
PoE Ports	8 × PoE Ports / Non-PoE Version
PoE Voltage	54V DC
PoE Power	30W per Port / 120W Total
PON Interface	1 × GPON / EPON Adaptive
Optical Class	PX20+
GPON Speed	Upstream 1.25 Gbps / Downstream 2.5 Gbps
GPON TX Power	0 ~ +4 dBm
GPON RX Sensitivity	-7 to -28 dBm
EPON Speed	Upstream 1.25 Gbps / Downstream 1.25 Gbps
EPON TX Power	0 ~ +4 dBm
EPON RX Sensitivity	-7 to -27 dBm
Lightning Protection	RJ45: CM 4KV / DM 2KV
Dimensions	286 × 192 × 44 mm
Power Supply	AC 100–240V
Power Consumption	10W (excluding PoE)
Operating Temperature	-30°C to +70°C
Storage Temperature	-40°C to +80°C
Humidity	10%–90% (Operating), 5%–95% (Storage)
Enclosure	Industrial Metal Case

Network Features

Feature	Details
VLAN	IEEE 802.1Q VLAN, Multicast VLAN
QoS	DBA, IEEE 802.1p, CoS, WR/SP Scheduling
Multicast	IGMP Snooping
Flow Control	IEEE 802.3x
Loop Detection	Supported
Storm Control	Broadcast Storm Suppression
IP Support	IPv4 / IPv6
Management	OLT Remote Management + Local Console

Installation Recommendation

Install the HSGQ-810P inside a properly ventilated communication cabinet using quality **Single Mode Fiber**. Connect the ONU to a compatible GPON/EPON OLT and configure VLAN, QoS, and multicast settings according to the network design. When using the PoE model, ensure that the total connected PoE load does not exceed the **120W power budget**. Its industrial metal enclosure and wide operating temperature range make it suitable for indoor and semi-outdoor deployments in surveillance, transportation, and FTTH applications.

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