XGSPON OLT - HSGQ

Variants

XGSPON- TC08 XGSPON-T02 XGSPON-TC04R

Details

HSGQ 10G PON SOLUTION

Build a high-capacity fiber access network with the HSGQ XGSPON OLT series. Choose from **2-port, 4-port and 8-port models** for FTTH, FTTB, ISP, enterprise, industrial park, hotel and smart-building deployments.

Compare Models Order Online

HSGQ XGSPON OLT Series

The **HSGQ XGSPON OLT series** provides a flexible migration path from traditional GPON networks to higher-capacity XG-PON and symmetrical XGS-PON access networks. The series includes compact 2-port and 4-port models

for smaller deployments and an advanced 8-port Combo OLT for larger ISP and enterprise networks.

Depending on the selected model, the OLT supports XGS-PON, XG-PON and GPON services, high-speed 10G, 25G, 40G or 100G uplinks, cloud management, Layer 2 switching, Layer 3 routing and centralized ONU administration.

Series Highlights

Available Models

2 / 4 / 8 PON

Maximum PON Speed

9.953 Gbps

Network Management

Cloud / Web / CLI

Main Applications

ISP / FTTH / FTTB

Choose the Correct XGSPON OLT

Select the model according to the required PON port quantity, subscriber capacity, uplink bandwidth and network size.

HSGQ-T02

2 PON PORTS

Compact XGS-PON and XG-PON OLT for smaller FTTH, FTTR, office, apartment and budget-focused deployments.

- 2 × XGS-PON / XG-PON ports
- 2 × 10G SFP+ uplinks
- 4 × Gigabit RJ45 ports
- Maximum split ratio: 1:128
- AC 100–240V and DC 12V
- Power consumption below 50W

View HSGQ-T02

POPULAR CHOICE

HSGQ-TC04R

4 PON PORTS

Flexible Combo OLT supporting XGS-PON, XG-PON and GPON services for medium-sized ISP and enterprise networks.

- 4 × XGSPON / XG-PON / GPON
- 4 × 10G SFP+ uplinks
- 4 × Gigabit RJ45 ports
- Maximum split ratio: 1:128
- AC, DC 12V and DC 48V options
- Power consumption below 50W

View HSGQ-TC04R

HSGQ-TC08

8 PON PORTS

High-capacity Combo OLT for larger ISP networks, industrial parks, commercial buildings and high-density fiber deployments.

- 8 × XGSPON / XG-PON / GPON
- 4 × 10G/25G SFP+ or SFP28
- 1 × 40G/100G QSFP+ or QSFP28
- Maximum split ratio: 1:256
- Recommended split ratio: 1:128
- Optional hot-swappable dual power

View HSGQ-TC08

XGSPON OLT Model Comparison

Specification	HSGQ-T02	HSGQ-TC04R	HS
PON Ports	2 Ports	4 Ports	8 P
Supported PON	XGS-PON / XG-PON	XGS-PON / XG-PON / GPON	XG
Main Uplinks	2 × 10G SFP+	4 × 10G SFP+	4 ×
Maximum Split Ratio	1:128	1:128	1:25

Specification	HSGQ-T02	HSGQ-TC04R	HS
Memory	32MB Flash / 512MB DDR	32MB Flash / 512MB DDR	32M
Dimensions	285 × 192 × 44 mm	440 × 262 × 44 mm	442
Power Consumption	50W	50W	160
Recommended Deployment	Small Network	Medium Network	Larg

Supported PON Transmission Speeds

XGS-PON

Upstream: 9.953 Gbps at 1270nm
Downstream: 9.953 Gbps at 1577nm

XG-PON

Upstream: 2.488 Gbps at 1270nm
Downstream: 9.953 Gbps at 1577nm

GPON

Upstream: 1.244 Gbps at 1310nm
Downstream: 2.488 Gbps at 1490nm

GPON compatibility applies to the HSGQ-TC04R and HSGQ-TC08 Combo OLT models.

Network Features

PON & ONU Management

- Automatic ONU discovery and registration
- ONU white list and deny list
- Dynamic Bandwidth Allocation
- Point-to-point service support
- ONU authentication and authorization

Layer 2 Features

- VLAN transparent, translation and QinQ
- IGMP Snooping and IGMP Proxy
- Port isolation and traffic control
- MSTP, RSTP and ERPS
- LLDP and LACP

Layer 3 Features

- DHCP services
- Static routing
- OSPF and RIP
- VRRP redundancy
- PIM multicast routing

Management & Monitoring

- CLI and Web management
- SNMP and NMS integration
- Cloud-based management
- Firmware upgrade and debugging
- Log, user and alarm management

Applications

Internet Service Providers

High-capacity broadband access for ISP and telecom networks.

FTTH & FTTB

Fiber connectivity for homes, apartments and commercial buildings.

Hotels & Campuses

Centralized fiber access for hotels, schools and institutional campuses.

Smart Buildings

High-speed PON access for smart buildings and industrial parks.

Download XGSPON OLT Datasheets

Download the technical datasheet for the required HSGQ XGSPON OLT model.

Download 8-Port Datasheet

Download 4-Port Datasheet

Download 2-Port Datasheet

Model Selection Recommendation

Choose the **HSGQ-T02** for smaller XGS-PON or XG-PON deployments. Select the **HSGQ-TC04R** when GPON compatibility and four Combo PON ports are required. For larger subscriber networks, high-density deployment and high-capacity uplinks, choose the **HSGQ-TC08**.

Before installation, calculate the expected ONU quantity, split ratio, optical power budget, uplink capacity, redundancy requirements and future subscriber growth.

Need Help Selecting an XGSPON OLT?

D-TECH provides XGSPON, XG-PON and GPON OLT solutions for ISPs, enterprises, hotels, campuses and fiber network projects across Nepal.

View Price and Order Online

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