

HSGQ- XPON MDU

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Variants

843 4x1G RJ45 (PoE) 844 4x 1G RJ45 (PoE)

Details

HSGQ-844 Industrial XPON ONU (GPON / EPON Adaptive)

The HSGQ-844 is a rugged industrial-grade XPON ONU designed for harsh environments and high-reliability applications. Supporting both GPON and EPON adaptive modes, it delivers stable high-speed connectivity for smart city, transportation, and industrial FTTH/FTTB deployments. Equipped with 4 Gigabit PoE ports, strong lightning protection, and wide temperature support, it ensures reliable performance in demanding field conditions.

Key Features

Features
XPON adaptive (GPON / EPON auto-detection)
4 x Gigabit PoE ports (up to 30W per port)
Industrial-grade design with -40°C to +75°C operation
High lightning protection up to 6KV
Supports VLAN, QoS, IGMP multicast
Remote management via OLT, Web & Telnet
Metal industrial enclosure for durability

Technical Specifications

Parameter	Specification
Model	HSGQ-844
Product Type	Industrial XPON ONU
Application	Smart City, Smart Transport, FTTH / FTTB
User Interface	4 × GE RJ45 (PoE) + 1 × XPON Optical Port
PON Interface	GPON / EPON Adaptive
Optical Class	PX20+
PON Speed	Upstream: 1.25 Gbps / Downstream: 2.5 Gbps
Wavelength	Up: 1310 nm / Down: 1490 nm
TX Optical Power	0 ~ +4 dBm
RX Optical Power	-27 ~ -7 dBm
Sensitivity	-28 dBm
Fiber Type	Single Mode
PoE Output	Max 30W per port
Total PoE Power	Max 60W
Power Supply	AC 110–240V (Built-in PSU)
Lightning Protection	RJ45: CM 6KV / DM 2KV, All Ports up to 6KV
Management	Web / Telnet / OLT Remote Management
VLAN	IEEE 802.1Q VLAN, Multicast VLAN
QoS	DBA, 802.1p, CoS, WR/SP Scheduling

IP Support	IPv4 / IPv6
Operating Temperature	-40°C to +75°C
Storage Temperature	-40°C to +80°C
Dimensions	200 x 135 x 40 mm
Enclosure	Industrial Metal Case