HSGQ-X100GD ONU XPON

Variants

UPC 1RJ APC 1RJ

Details

1GE EPON/GPON Adaptive ONU – Specifications

Technical Parameters

Module	Parameter
User Interface	1 × 10/100/1000M RJ45 EPON / GPON mode adaptive Interface Type: SC-UPC / SC-APC Network Coverage Radius: 20 km
PON	GPON: Upstream 1.25 Gbps / Downstream 2.5 Gbps GPON Optical Receive Power: -7 ~ -28 dBm GPON Continuous Light Power: 0.5 dBm ~ +5 dBm EPON: Upstream 1.25 Gbps / Downstream 1.25 Gbps EPON Optical Receive Power: -7 ~ -27 dBm EPON Continuous Light Power: 0 dBm ~ +4 dBm
Ethernet	1 × 10/100/1000M Auto-negotiation Full / Half Duplex Mode RJ45 Connector Auto MDI / MDI-X 100 m Distance
Size	79 mm (L) × 79 mm (W) × 22 mm (H)
Environmental	Operating Temperature: 0°C ~ 60°C Operating Humidity: 10% ~ 85% (Non-condensing) Storage Temperature: -40°C ~ 80°C Storage Humidity: 5% ~ 95% (Non-condensing)

Module	Parameter
Power Supply	12V / 0.5A DC Power Interface Size: 2.1 mm / 5.5 mm
Power Consumption	3W
Management	Web / TELNET / TR069 / OAM / OMCI

Key Features

1	Support port-based rate limitation and bandwidth control
2	Compliant with IEEE 802.3ah and ITU-T G.984 adaptive interface
3	Up to 20 km transmission distance
4	Support data encryption, group broadcasting, and port VLAN separation
5	Support Dynamic Bandwidth Allocation (DBA)
6	Support ONU auto-discovery, link detection, and remote software upgrade
7	Support VLAN configuration by port mode
8	Support power-off alarm function for easy link problem detection
9	Support broadcast storm resistance
10	Support port loop detection
11	Support ACL for flexible packet filtering
12	Support PPPoE, DHCP Server, IPTV, NAT
13	Specialized design for stable system operation
14	Support online software upgrade
15	Support MAC / Port / URL filtering
16	Support IPv4 / IPv6

Product Interfaces and Indicator Definitions

Indicator	Description
POWER	On: The ONU is powered on Off: The ONU is powered off
PON	On: Successfully registered to OLT Blinking: Registering to OLT Off: Failed to register to OLT
LOS	On: Optical power is abnormal Off: Optical signal is normal
LAN	On: Ethernet connection is normal Blinking: Data is being transmitted Off: Ethernet connection is not established

Ordering Information

Product Model	Description
HSGQ-X100DG	1 × 10/100/1000M Ethernet Interface (RJ45) 1 × EPON / GPON Adaptive Interface

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