HSGQ-XGSPON ONU

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Variants

T131U

Details

HSGQ-T131U is a high-performance **XGSPON Optical Network Unit (ONU)** designed for FTTH networks. It provides **10Gbps downstream and 10Gbps upstream** capacity with integrated routing, Ethernet, and voice services. The device is widely compatible with global OLT brands and supports advanced management, security, and cloud control features.

Key Specifications

PON Interface

? XGSPON Port: 1 × SC/APC
? Transmission Distance: Up to 20 km
? Downstream Wavelength: 1577 nm
? Upstream Wavelength: 1270 nm
? Downstream Rate: 9.953 Gbps
? Upstream Rate: 9.953 Gbps
? Optical Transmit Power: +5.5 ~ +7.5 dBm
? Optical Receive Sensitivity: –29 dBm
? Overload Optical Power: –8 dBm

Ethernet Interfaces

? 1 × 10GE RJ45 LAN Port
? 3 × GE RJ45 LAN Ports
? Auto-negotiation: 10/100/1000M & 10G
? Full/Half Duplex Mode
? RJ45 Connector
? Auto MDI/MDIX
? Maximum Cable Distance: 30 meters

Voice (POTS) Interface

? 1 × RJ11 Port
? Maximum Ringing Voltage: 55V RMS
? Ring Frequency: 25 Hz

USB Interface

? 1 × USB Port

Supported Standards

? ITU-T G.9807 (XGSPON)
? ITU-T G.988 (OMCI Management)

Core Features

? Supports OMCI and TR-069 remote management
? Compatible with major global OLT brands
? Dynamic Bandwidth Allocation (DBA)
? VLAN configuration and port binding
? QoS configuration and traffic control
? ACL packet filtering and port isolation
? Multicast and group broadcasting support
? PPPoE / DHCP Server / IPTV / NAT
? IPv4 / IPv6 support
? Automatic ONU discovery and link detection
? Online firmware upgrade and maintenance
? Cloud management supported
? System protection for stable long-term operation

Environmental Specifications

? Operating Temperature: 0°C ~ 50°C
? Storage Temperature: –40°C ~ 75°C
? Operating Humidity: 0% ~ 85% (non-condensing)
? Storage Humidity: 5% ~ 95% (non-condensing)

Power Specifications

? Power Input: 12V DC
? Power Interface: 2.1 mm / 5.5 mm
? Power Consumption: 12W

Physical Dimensions

? Size: 160 mm × 110 mm × 30 mm (L × W × H)

Ordering Information

? **Model:** HSGQ-T131U
? **Configuration:**
 • 1 × XGSPON Port
 • 1 × 10GE RJ45
 • 3 × GE RJ45
 • 1 × POTS
 • 1 × USB

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