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Nokia ONT XS-010G-Q

XGS-PON SFU ONT

The Nokia Optical Network Terminal (ONT) XS-010G-Q that has one 1/2.5 Gigabit Ethernet (GigE) is part of the industry-leading Nokia ONT product family and is compatible with the Nokia fiber to the x (FTTx) product line. It is designed to deliver triple play services in a fiber to the home (FTTH) environment to single family units (SFUs) where an Ethernet port is required.

The Nokia ONT terminates the 10 G symmetrical Passive Optical Network (XGS-PON) fiber interface that is compliant with a Full Service Access Network (FSAN).

Overview

The Nokia ONT XS-010G-Q is designed for residential customer requirements and offers data services to the subscriber through FTTH or fiber to the premises (FTTP) applications. The Nokia ONT XS-010G-Q is an ONT suitable for indoor deployments and is compliant with ITU-T G.9807.1 supporting a line rate of 10 Gb/s upstream and 10 Gb/s downstream. With XGS-PON as the uplink interface, the XS-010G-Q is also compliant with the standard optical network unit (ONU) management and control interface (OMCI) definition.

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Features

- WAN: XGS-PON, SC/APC

- LAN: 1x100M/1G/2.5G BASE-T RJ-45, auto negotiating supported

- ITU-T G.9807.1, G.988 compliant

- Wire speed data transfer

- Per subscriber, per service bandwidth control

- IP video with multistage Internet Group Management Protocol (IGMP) v2/v3 for channel change

- Supports received signal strength indication (RSSI) for lean operations and remote troubleshooting

Benefits

- Enables operators to capture new revenues with services that require 2.5 Gb/s symmetrical

- Eco-sustainability is in line with "green" tendencies: low power consumption.

- IGMP snooping monitors the member joining and leaving activities at the Ethernet port, then selectively delivers the multicast streams.

- ONT supports dying gasp functionality

- Advanced dynamic bandwidth management

Technical specifications

Physical

- Height: 3.0 cm (1.18 in)

- Width: 13.5 cm (5.31 in)

- Length: 13.5 cm (5.31 in)

- Weight: 0.366 kg (0.81 lb)

Installation

- Desktop or wall mounting

Power requirements

- 12 VDC /1A

- Power consumption: <4.4W

Operating environment

- Temperature (ambient): -5°C to 45°C

- Relative humidity: 5% to 95%, non-condensing

XGS-PON uplinks

- Wavelength: 1260 nm–1280 nm upstream; 1575 nm–1580 nm downstream

- G.9807.1 XGS-PON standards compliant: 4 dBm ~ 9 dBm launch power; -28 dBm ~ -9 dBm for receiving

- SC/APC connector

- 10 G burst mode upstream transmitter

- 10 G downstream receiver

- G.9807.1-compliant 10 GPON Encapsulation Method (XGEM) framing

- Flexible mapping between XGEM ports and T-CONT

- Advanced Encryption Standard (AES) 128

- Forward error correction (FEC)

- Activation with automatic discovered serial number and password

Ethernet interfaces

- One LAN 100 M/1 G/2.5 G Base-T interface with RJ-45 connector

- Ethernet port auto-negotiation or manual configuration with medium dependent interface/ medium dependent interface crossover (MDI/ MDIX)

- Virtual switch based on IEEE 802.1Q virtual LAN(VLAN)

- VLAN stacking (Q-in-Q) and VLAN translation

- CoS based on VLAN ID, 802.1p bit

- IGMP v2/v3 snooping

Operations, administration, and maintenance (OA&M)

- Standard compliant OMCI (the embedded operations channel) interface as defined by ITU-T G.984.4 and ITU-T G.988

- Supports WebGUI for the ONU. Authentication password configuration from a LAN port on the hosting switch or router

- Management information base (MIB) manipulation over OMCI with create, delete, set, get and get next commands

- Alarm reporting and performance monitoring

- Remote software image download over OMCI, as well as activation and rebooting

LEDs

- Power

- PON

- Alarm

- Data

Safety and electromagnetic interference (EMI)

- FCC compliant

- UL 60950-1

- CE Mark

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