KRONECT
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NOKIA ONT - PASSIVE OPTICAL LAN

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Develop for Enterprise FX DC

18.03.2019

Data Sheet: 019/052-Com_POL-Sales

GENERAL FEATURES

☆ Interface: One 10/100/1000Base-T RJ-45

☆ Wire speed data transfer for all packet sizes

☆ Per-subscriber, per-service bandwidth control

☆ IP video with IGMPv2 and IGMPv3

☆ Remote troubleshooting ability

☆ G.984 compliant

☆ Wall, ceiling and desktop mounting

☆ Optimized for Gigabit services with Nokia Gigabit Express

☆ 10/100/1000Base-T interface with RJ-45 connectors

☆ Supports port-based downstream priority queues and strict priority scheduling for traffic class of service (CoS) differentiation

☆ Supports any source multicast/source-specific multicast (ASM/SSM)

☆ Single fiber network offers flexible support for multiple service and content providers

☆ Lowers OPEX through use of a single fiber network

☆ 2.488G downstream receiver compliant
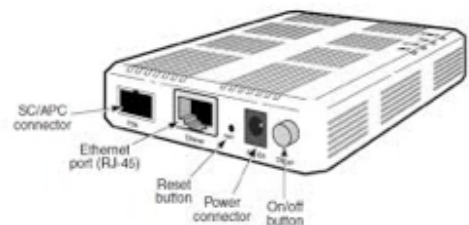
COM. REFERENCE
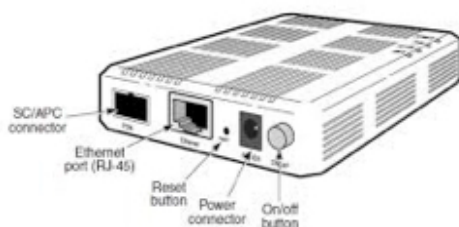Develop for Enterprise ONT DC
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NOKIA ONT POL TYPE G1 UNIT

The Nokia ONT G1 Unit Intelligent Services Access Manager Optical Network Terminal KROG-010G-A is designed to deliver gigabit speeds in an Optical LAN environment. The Nokia ONT KROG-010G-A provides a Gigabit Ethernet (GigE) user interface and delivers premium service experience for all services, including voice, data and video. This ONT terminates a full standard compliant Gigabit Passive Optical Network (GPON) fiber interface.

The ONT KROG-010G-A is designed for business offices, hospitals, hospitality, real estate developers and other organizations that need high capacity LAN
to support a new generation of services, improve productivity and build a competitive edge. The ONT KROG-010G-A is suitable for indoor deployments and can be mounted on the desktop, wall or ceiling.
The ONT supports a 1Gb/s upstream and 1Gb/s downstream line rate. It is compatible with Nokia OLT POL FX access node and managed through the Nokia Software Platform Passive Optical LAN Command Center (KPCC).

KRONECT COMUNICATII SRL

Model	Nr. of	RJ45	Dim.	GPON	WiFi
	Subscribers	Slot	in cm	Interface	
KROG-010G-A	1	1	36,5mm x 105mm x 82mm	10/100/1000	NO

Technical Specification

GPON network interface

- Compliant to G.984.x GPON standards

- Bidirectional Optical Sub Assembly (BOSA) type laser, subscription connector/angled physical contact SC/APC connector

- High-speed Internet access

- 1.244G burst mode upstream transmitter

- 2.488G downstream receiver compliant

- Laser compliant to FCC 21 CFR Part 15, Class B

Ethernet

- 10/100/1000Base-T interface with RJ-45 connectors

- Ethernet port auto negotiation or manual configuration

- Medium dependent interface/medium dependent interface crossover (MDI/MDIX) automatic sense

- Supports port-based downstream priority queues and strict priority scheduling for traffic class of service (CoS) differentiation

- Virtual switch based on 802.1Q VLAN

- VLAN tagging/detagging per Ethernet port and marking/remarking of 802.1p

- Supports any source multicast/source-specific multicast (ASM/SSM)

Power supply

- 12V (feed through an external AC/DC adapter)

- Dying gasp support

- Power consumption: <8W

- Power adapter not included

Operating Temperature

-5°C to 55°C (23°F to 131°F)

Relative humidity: 5% to 90%

Operations, administration, and maintenance (OAM)

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

- Supports local WebGUI for the optical network unit (ONU) authentication password configuration from the LAN side

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

- Provisioning of Ethernet service

- Alarm reporting and performance monitoring

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

- Supports SLID (using WebGUI)

GPON TC layer

- G.984.3-compliant GPON Encapsulation Method (GEM) framing

- Multiple T-CONTs per device

- Multiple GEM ports per device

- Flexible mapping between GEM ports and T-CONTs

- G.984.3-compliant activation with automatically discovered SN and password

- G.984.3-compliant activation with automatically discovered SN and password

- G.984.3-compliant Advanced Encryption Standard (AES-128)

- G984.3-compliant forward error correction (FEC)

Safety and electromagnetic interference (EMI)

- UL 60950-1

- CSA C22.2 No. 60950-1

- FCC Part 15b, Class B, IC-003

- ITU-T K.21

LED

- Power; - PON; - ALARM; - DATA

WARRANTY

This product manufactured for Kronect Comunicatii SRL is warranted to be free from defects from workmanship and components for a period of 2 years from the date of shipment. During this period any defective products shipped prepaid to Kronect will be repaired or replaced at our discretion and returned at no further cost to the customer. Kronect shall not be liable for any consequential or indirect damage of any type or nature, nor for any cost of reinstallation. Any product that has been subject to improper installation, unauthorized alteration, accident or misuse is rendered void of warranty. Kronect also provides a repair service for products not covered by warranty. Charges will be levied for labor, components, and transportation.

To return a unit for repair contact the Kronect and obtain a Return Material Authorization Number (RMA.)

Be prepared to provide the following information:

1. Product Name
2. Product Model Number
3. Product Serial Number (stick on each products)
4. Your contact person and phone number.
5. Your company name and return address

Package the unit in its original shipping carton or adequate substitute, along with a clear & complete description of the problem or defect. Clearly mark the outside of the carton with the Return Material Authorization Number and send the unit to the address shown below:

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