



## NOKIA ONT - PASSIVE OPTICAL LAN

COM. REFERENCE

Develop for Enterprise FX DC

18.03.2019

Data Sheet: 019/123-Com\_POL-Sales

## GENERAL FEATURES

- Compliant with ITU-T G.984 and supports a line rate of 2.5 Gb/s downstream and 1.25 Gb/s upstream
- Power over Ethernet plus (PoE+), complying with IEEE 802.3af and IEEE 802.3at standards.
- Managed from a remote site using Nokia Software Platform Passive Optical LAN Command Center
- Supports the full range of fault, configuration, accounting, performance and security (FCAPS) functions
- RJ-45 10/100/1000 Ethernet port Gigabit interface with line rate forwarding
- Fanless operation in temperatures up to 60°C for outdoor deployment.
- Wall, ceiling, desktop mounting or outdoor mounting
- Advanced dynamic bandwidth management allows prioritization per service and per user with the ability to burst up to the full line rate.
- Guarantees very high quality of service (QoS) and future security, and makes optimal use of electronics, fiber optics and distribution facilities
- Optics support received signal strength indication (RSSI)
- Lowers OPEX through use of a single fiber network
- Integrates the ONT and wireless access point functions to allow one less device in the home

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# NOKIA ONT POL TYPE G1 & PoE+ UNIT

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

The Nokia ONT KROG-010P-A is designed for organizations managing stadiums, outdoor entertainment venues, hospitality, real estate developments and similar locations where high capacity LAN is needed to support a new generation of services, improve productivity and build a competitive edge. The ONT KROG-010P-A delivers a gigabit experience to each user and connected device. It features power over Ethernet (PoE+) to reduce power consumption and avoid the need for local powering. It is compatible with the Nokia OLT POL TYPE FX access node and can be managed through the Nokia Passive Optical LAN Command Center (KPCC).

Model	Nr. of	RJ45	Dim.	GPON	WiFi
	Subscribers	Slot	in cm	Interface	
KROG-010P-A	1 Eth & PoE+	1	65mm x 90mm x 100mm	1 x RJ45 10/100/1000 Base T	NO

### Technical Specification

#### GPON network interface

- Compliant to G.984.x GPON standards
- Small form factor (SFF) type laser, SC/APC connector
- High-speed Internet access
- 1.244G burst mode upstream transmitter
- 2.488G downstream receiver compliant

- Remote software image download

#### Ethernet

- 10/100/1000BASE-T interface with RJ-45 connectors
- Ethernet port auto-negotiation or manual configuration with media dependent interface crossover (MDI/MDIX)
- Virtual switch based on IEEE 802.1q virtual LAN (VLAN)
- Supports port-based downstream priority queues and strict priority scheduling for traffic class of service (CoS) differentiation
- VLAN tagging/detagging per Ethernet port and marking/remarking of IEEE 802.1p
- External Integrated Access Device (IAD) necessary to deliver voice service
- VLAN stacking (Q-in-Q) and VLAN translation
- Internet Group Management Protocol (IGMP) v2/ v3 snooping

#### Power over Ethernet

- Supports IEEE 802.3af and IEEE 802.3at Power Sourcing Equipment (PSE) standard
- Maximum 30W output
- Power consumption: <48 W

#### Operating Temperature

- 40°C to 60°C (-40°F to 140°F).
- Relative humidity: 5% to 95%

### Operations, administration, and maintenance (OAM)

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

- Supports local web GUI 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 POTS port or web GUI)

#### Installation

- IP classification: IP30
- Weight: 0.5 kg (1.1 lbs)
- NAT, DMZ and firewall
- Protection of over voltage/current
- IGMP proxy
- Support of TR-069
- G.984.3-compliant Advanced Encryption Standard (AES-128)
- G.984.3-compliant forward error correction (FEC)

### Safety and electromagnetic interference (EMI)

- Protection of over voltage/current
- CSA C22.2 No. 60950-1
- FCC Part 15b, Class B, IC-003
- ITU-T K.21

#### LED

- Power; - PON; - BTRY; - Auth; LAN, PoE+

### 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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