

Nokia 7368 ISAM ONT G-240G-C

ONT solution for Passive Optical LAN

The Nokia 7368 Intelligent Services Access Manager (ISAM) Optical Network Terminal (ONT) G-240G-C is designed to deliver gigabit speeds in a Passive Optical LAN (POL) environment. The Nokia 7368 ISAM ONT G-240G-C provides two voice and four Gigabit Ethernet (GigE) user interfaces and delivers a 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 Nokia 7368 ISAM ONT G-240G-C is designed for business offices, hospitals, the hospitality sector, 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 provides gigabit speeds to each user and connected device. Voice services are provided through two POTS ports with an integrated analog telephone adapter (ATA) that converts voice traffic into Session Initiation Protocol (SIP) or ITU-T H.248. This ONT is compatible with the Nokia 7360 ISAM FX access node and managed through the Nokia 5571 Passive Optical LAN Command Center (PCC).



Features

- Four RJ-45 10/100/1000 Ethernet ports, two POTS ports for carrier-grade voice services
- Supports bridge and routed modes
- Routed mode supports: network address translation (NAT), firewall, port forwarding, demilitarized zone (DMZ) and dynamic domain name system (DNS)
- Voice interworking function from the analog POTS lines to the voice over Internet Protocol (VoIP)/ Ethernet layers
- Optics support received signal strength indication (RSSI)

Benefits

- Delivers connectivity to Ethernet devices within the home
- Supports full triple play services including voice, video, and high-speed internet access
- Allows service-per-port configurations
- Supports IP video distribution
- Delivers voice services using VoIP
- Delivers video services efficiently with multicasting or unicasting
- Network management using Nokia 5520 Access Management System (AMS)

Technical specifications

Dimensions

- Height: 33 mm (1.3 in)
- Width: 123 mm (4.8 in)
- Depth: 180 mm (7 in)
- Weight: 0.4 kg (0.88 lb)
- Wall or desk mount

Operating environment

- Temperature: -5°C to 45°C (23°F to 113°F)
- Relative humidity: 5% to 93%

Power requirement

- Local powering with 12 V input (feed uses external AC/DC adapter)
- Dying gasp support
- Power consumption: <7 W

GPON uplink

- 1490 nm wavelength downstream, 1310 nm wavelength upstream
- 2.488 Gb/s line rate downstream, 1.244 Gb/s line rate upstream
- GPON Encapsulation Method (GEM) mode support for IP/Ethernet service traffic support
- ITU-T G.984.3-compliant dynamic bandwidth reporting (DBR)
- ITU-T G.984.3-compliant Advanced Encryption Standard (AES) in downstream
- ITU-T G.984.3-compliant forward error correction (FEC)
- ITU-T G.988 Appendix 1 and Appendix 2 ONT Management Control Interface (OMCI)
- Remote software image download
- Small form-factor (SFF) type laser, SC/APC connector

Ethernet interface

- 10/100/1000Base-T interface with RJ-45 connectors
- Wire speed forwarding
- 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 tagging/detagging per Ethernet port and marking/remarking of IEEE 802.1p
- IP type of service/differentiated services code point (ToS/DSCP) to IEEE 802.1p mapping for untagged frames
- Class of service (CoS) based on VLAN-ID, IEEE 802.1p bit
- Internet Group Management Protocol (IGMP) v2/v3 snooping

POTS interface

- Two FXS ports for VoIP service with RJ-11 connectors
- Multiple codecs: ITU-T G.711, ITU-T G.729 (A and B)
- SIP (RFC 3261)
- G.168 echo cancellation
- Services: caller ID, call waiting, call hold, 3-way call, call transfer, message waiting indication

- 5 ringer equivalence numbers (RENs) per line
- Dual-tone multi-frequency (DTMF) dialing
- Balanced sinusoidal ring signal, 55 V root mean square (RMS)

LED

- Power
- PON
- Auth
- LAN (1~4)
- TEL (1~2)
- VoIP
- Internet

Safety and electromagnetic interference (EMI)

- Protection of over voltage/current

Regulatory compliance

- CE Mark

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