

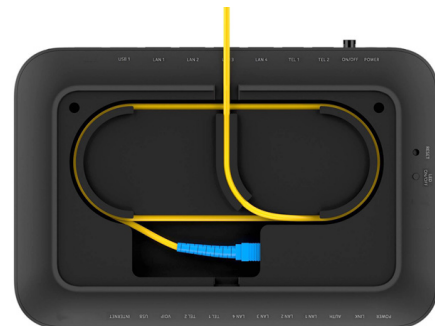
## Nokia 7368 ISAM ONT G-240G-E

### Residential ONT

The Nokia 7368 Intelligent Services Access Manager (ISAM) Optical Network Terminal (ONT) G-240G-E is the solution for home networking delivered by Gigabit Passive Optical Network (GPON). The device provides triple play services with voice, video and data that enhance home user experience. The Nokia 7368 ISAM ONT G-240G-E is designed to take advantage of Nokia award-winning management platforms. These platforms include a customized Motive™ Home Device Manager, which is integrated with the Nokia 5520 Access Management System (AMS) platform to deliver a uniform end-to-end operations, administration, and maintenance (OA&M) solution that carriers need to provide subscriber satisfaction. It also supports provisioning of voice services using TR-069-based platforms.

### Features

- Four RJ-45 10/100/1000 Ethernet ports with auto negotiation and medium dependent interface/medium dependent interface crossover (MDI/MDIX) auto sensing
- Two plain old telephone service (POTS) ports for carrier-grade voice services
- USB 2.0 port
- Built-in Layer 2 (L2) switch
- Forward error correction (FEC)
- Port forwarding
- Dynamic domain name system (DDNS)
- Network Address Translation/ Network Address Port Translation (NAT/NAPT)
- IGMP snooping and proxy
- Integrated fiber management (fiber tray with cover)



## Benefits

- Supports triple play services, including voice, video and high-speed internet access
- Supports IP video distribution
- Supports voice services using Session Initiation Protocol (SIP) with G.711, G.729
- Supports voice provisioning via TR-069
- Supports fax services
- Delivers video services efficiently with multicasting or unicasting
- IPSec/L2 to L3 virtual private network (VPN) client

## Technical specifications

### Physical

- Interface: 4 GigE + 2 POTS
- Wall or desk mount

### Operating environment

- Temperature: -5°C to 45°C (23°F to 113°F)
- Relative humidity: 5% to 95%, non-condensing

### Power

- Local powering with 12 V DC input using an external AC/DC adapter with reverse polarity protection
- Output: 12 V DC, 1.5 A max.
- Dying gasp
- Power consumption: <18 W

### Safety

- Protection of over voltage/current
- K.21 compliance

### GPON interface

- Compliant with G.984.2 Amd1, Class B+
- Receive sensitivity -28 dBm
- Wavelength: 1490 nm downstream, 1310 nm upstream

- Line rate: 2.488 Gb/s downstream, 1.244 Gb/s upstream
- Wavelength blocking filter (WBF)
- GPON Encapsulation Method (GEM) mode support for IP/Ethernet service
- G.984.3 compliant FEC
- GEM port and T-CONT flexible mapping
- G.984.3 compliant dynamic bandwidth reporting (DBR)
- G.984.3 compliant Advanced Encryption Standard (AES) in downstream
- Interoperability testing (IOT) with third-party optical line terminals (OLTs)
- SC-UPC/SC-APC connector options

### Ethernet

- Four 10/100/1000 Base-T interfaces with RJ-45 connectors
- Ethernet port auto negotiation or manual configuration
- MDI/MDIX automatically sense
- Media access control (MAC) learning
- IGMP v2/v3 snooping, v2/v3 proxy

### USB interface

- USB 2.0 host interface

### POTS interface

- Two FXS ports for voice over Internet Protocol (VoIP) service
- Multiple codecs: ITU-T G.711, ITU-T G.729 (A and B)
- SIP (RFC 3261)
- T.30/T.38 fax modes configurable
- G.168 echo cancellation
- Services: caller ID, call waiting, call hold, 3-way call, call transfer, message waiting indication
- Dual-tone multi-frequency (DTMF) dialing
- Balanced sinusoidal ring signal, 55 V root mean square (RMS)



## Residential gateway

- Supports router/bridge hybrid mode for ONT
- Point-to-Point Protocol over Ethernet/Dynamic Host Configuration Protocol (PPPoE/DHCP) (server and client), static IP
- NAT/NAPT
- Application layer gateway (ALG) and UPnP
- Port forwarding
- DNS server/client and DDNS
- IPv4/IPv6 dual stack and DS Lite

## Regulatory compliance

- CB (EN 60950 and EMC)

## Quality of service (QoS)

- Ethernet port rate control
- 802.11 priority scheduling
- SP/WRR/SP+WRR
- Broadcast/Multicast rate limiting

## OA&M

- Supports OMCI/TR-069/WebGUI configuration
- Alarm report, performance monitoring
- Remote software image download/activation/reboot over OMCI or TR-069
- Two software images backup and automatic rollback

## Security

- Prevents DoS, port scanning, ping of death
- Firewall and access control list (ACL)

## About Nokia

We create the technology to connect the world. Powered by the research and innovation of Nokia Bell Labs, we serve communications service providers, governments, large enterprises and consumers, with the industry's most complete, end-to-end portfolio of products, services and licensing.

From the enabling infrastructure for 5G and the Internet of Things, to emerging applications in digital health, we are shaping the future of technology to transform the human experience. [networks.nokia.com](https://networks.nokia.com)

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