

## 7368 ISAM ONT G-240W-F

### Residential ONT

The Nokia 7368 Intelligent Services Access Manager (ISAM) Optical Network Terminal (ONT) G-240W-F is the solution for home networking delivered by Gigabit Passive Optical Network (GPON). The device has built-in Wi-Fi® 802.11 b/g/n networking with triple play capability that simplifies the home equipment experience. It can provide triple play services with voice, video and data. The Nokia 7368 ISAM ONT G-240W-F 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.

### Features

- Four RJ-45 10/100/1000 Ethernet ports with auto negotiation and MDI/MDIX auto sensing
- Two POTS ports for carrier grade voice services
- Two USB 2.0 ports
- Wireless IEEE 2.4 GHz 802.11 b/g/n
- 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)
- Internet Group Management Protocol (IGMP) snooping and proxy



- 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 fax services
- Delivers video services efficiently with multicasting or unicasting
- 5 dBi wireless LAN (WLAN) external antennas
- IPSec/Layer 2 Tunneling Protocol (L2TP)

### Benefits

- Integrates the ONT and wireless access point functions
- Delivers connectivity to Ethernet and wireless devices within the home

## Technical specifications

### Physical

- Interfaces: 4 GigE + 2 POTS + 2 USBs + Wi-Fi
- Wall or desk mount
- Fiber management supported

### 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
- Input: 100–240 V AC, 50/60 Hz
- Output: 12 V DC, 1.5 A max.
- Dying gasp
- Power consumption: <18 W

### Safety and electromagnetic interference (EMI)

- 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)

- Serial number (SN)/password/logical ONU ID (LOID) authorization
- G.984.3 compliant Advanced Encryption Standard (AES) in downstream
- Rogue ONT pattern (interoperability with Nokia OLT)
- SC/APC connector

### Ethernet

- Four 10/100/1000 Base-T interfaces with RJ-45 connectors
- Ethernet port auto negotiation or manual configuration
- MDI/MDIX automatically sense
- Virtual LAN (VLAN) tagging/detagging and marking/remarking of IEEE 802.1p per Ethernet port
- 1:1 VLAN/N:1 VLAN/VLAN transparent/QinQ VLAN
- Media access control (MAC) learning
- IGMP v2/v3 snooping, v2/v3 proxy

### WLAN interface

- 802.11 b/g/n
- WLAN on/off button
- 64/128 bits Wireless Encryption Protocol (WEP)
- Wi-Fi Protected Access (WPA) including WPA/WPA2, WPA-PSK/WPA2-PSK
- Wi-Fi Protected Setup (WPS)
- Wi-Fi Multimedia (WMM)
- 2 x 2 multiple input, multiple output (MIMO)
- 5 dBi external antenna x 2
- Multi SSIDs

### USB interface

- Two USB 2.0 host interfaces
- External USB device data sharing using File Transfer Protocol (FTP)

## POTS interface

- Two FXS ports for voice over IP (VoIP) service with RJ-11 connectors
- 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
- Supports router or bridge mode on each UNI port
- 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
- Demilitarized zone (DMZ)
- DNS server/client and DDNS
- IPv4/IPv6 dual stack and DS Lite

## Regulatory compliance

- CE Mark
- Wi-Fi Alliance

## Quality of service (QoS)

- Ethernet port rate control
- 802.1p priority scheduling
- Strict priority/weighted round robin (SP/WRR)/SP + WRR
- Broadcast/Multicast rate limiting

## OA&M

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

## Security

- Prevents denial of service (DoS), port scanning, ping of death
- MAC/IP/URL filter
- Firewall and access control list (ACL)

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