NOKIA G-240W-B

RESIDENTIAL GATEWAY ONT

The Nokia G-240W-B Optical Network Terminal (ONT) is the answer for home networking delivered by Gigabit Passive Optical Network (GPON). The device has built-in concurrent dual-band Wi-Fi 802.11 b/g/n and 802.11ac networking with triple-play capability that simplifies the home equipment experience. It can provide triple-play services with voice, video and data and high-capacity Wi-Fi connectivity.

FEATURES

- 4 RJ-45 10/100/1000 Ethernet ports
- 2 POTS ports for carrier-grade voice services
- 2 USB host ports (USB 2.0 and USB 3.0)
  - Wireless IEEE 802.11 b/g/n: 2.4 G and 5 G dual-band concurrent Wi-Fi
  - Wireless IEEE 802.11ac: 5 G
- Network Address Translation (NAT) and firewall
- Voice interworking function from the analog POTS lines to the voice over IP (VoIP)/Ethernet layers
- Optics support received signal strength indication (RSSI)
- Supports VPN pass-through for PPTP, L2TP, and IPSec
- Port forwarding/DMZ/DNS

SPECIFICATIONS

PHYSICAL	
Height	185 mm (7.3 in)
Width	300 mm (11.8 in)
Depth	36 mm (1.4 in)
Weight	0.61 kg (1.33 lb)
Wall or desk mount	
OPERATING ENVIRONMENT	
Temperature	-5°C to 45°C (23°F to 113°F)
Humidity	10% to 90% relative humidity
POWER REQUIREMENT	
Local powering	with 12 V input (feed uses external AC/DC adapter)
Power consumption	<30 W
Dying gasp support	

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
ITU-T G.984.3-compliant Advanced Encryption System (AES) in downstream
ITU-T G.984.3-compliant 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

Forwarding

Ethernet port auto-negotiation or manual configuration with Media Dependent Interface/Media Dependent Interface with 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)

ITU-T G.168 Echo cancellation

Services: Caller ID, Call Waiting, Call Hold, 3-Way Call, Call Transfer, Message Waiting Indication

5 REN per line

Dual-Tone Multi-Frequency (DTMF) dialing

Balanced sinusoidal ring signal, 55 Volts Root Mean Square (VRMS)

WLAN INTERFACE

3x3 802.11b/g/n

4x4 802.11ac

64-bit and 128-bit Wireless Encryption Protocol (WEP) support

Wireless Protected Access (WPA) support including Pre-shared Key (WPA-PSK) and WPA2

Media access control (MAC) filters

USB INTERFACE

One USB 2.0 interface

One USB 3.0 interface

RESIDENTIAL GATEWAY

IPv4 and IPv6

Point-to-Point Protocol over Ethernet (PPPoE) and IP over Ethernet (IPoE)

NAT, DMZ and firewall

Dynamic Host Configuration Protocol (DHCP) and Domain Name System (DNS) proxy

IGMP proxy

Support of TR-069

LED

Power

LAN (1~4)

POTS (1~2)

BTR

Link

Auth

VoIP

WPS

WLAN

USB

Internet

SAFETY AND ELECTROMAGNETIC INTERFERENCE (EMI)

Protection of over voltage/current

REGULATORY COMPLIANCE

UL 60950-1

FCC Part 15, subpart B

ISE-003

CE Mark

CB Mark