

Alcatel-Lucent 7368 ISAM ONT G-240W-B

Residential Gateway ONT

The Alcatel-Lucent 7368 Intelligent Services Access Manager (ISAM) 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. The 7368 ISAM ONT G-240W-B is designed to take advantage of Alcatel-Lucent award-winning management platforms. These include a customized Motive™ Home Device Manager, which is integrated with the Alcatel-Lucent 5520 Access Management System (AMS) platform to deliver a uniform end-to-end operations, administration, and maintenance (OA&M) solution that carriers need in order to provide subscriber satisfaction.



This indoor ONT is designed to deliver triple-play services (voice, data and video) to residential subscribers. 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. Connectivity to an existing PSTN Class 5 switch is supported through an H.248 voice gateway or through SIP with direct interoperability with a variety of soft switches. Ethernet connectivity is available on four Gigabit Ethernet (GE) ports, all of which have the ability to burst up to a full gigabit dynamically. Service providers can deliver video using IP packets (IPTV).

Rely on dual-band Wi-Fi to support the widest range of customer devices. The IEEE 802.11ac standard enables gigabit speeds on many newer devices. And the widely supported 802.11b/g/n standard can simultaneously connect to legacy devices.

Features

- Four RJ-45 10/100/1000 Ethernet ports, Two POTS ports for carrier-grade voice services
- Two USB host ports (USB 2.0 and USB 3.0)
- Wireless IEEE 802.11 b/g/n: 2.4G and 5G dual-band concurrent Wi-Fi
- Wireless IEEE 802.11ac: 5G
- 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 virtual private network (VPN) pass-through for Point-to-Point Tunneling Protocol (PPTP), Layer 2 Tunneling Protocol (L2TP), and IPSec
- Port forwarding/Demilitarized Zone (DMZ)/dynamic domain name system (DNS)

Benefits

- Integrates the ONT and wireless access point functions to allow one less device in the home
- 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
- Supports easy-to-use USB 2.0 and USB 3.0 connections for external disk drives and home network attached storage (NAS)
- Delivers voice services using VoIP
- Delivers video services efficiently with multicasting or unicasting
- Network management using Alcatel-Lucent 5520 AMS
- Flexible video delivery options of Ethernet or wireless to set-top boxes (STBs)

Technical 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)
- Dying gasp support
- Power consumption: <30 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
- 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