

AONT-1302

GPON Optical Network Terminal (2GE+4POTS) Alphion Part Number 240-0100119

Feature Summary

- ◆ Support for a wide range of revenue generating voice features
- ◆ Wire speed 1000Mbps data transfer
- ◆ QoS handling including four traffic classes for triple-play service support
- ◆ Extensive Ethernet bridging plus VLAN tagging, switching and filtering capabilities for secure traffic management across services and end users
- ◆ Power management for preservation of essential services during AC power outage
- ◆ Indoor or Outdoor wall mountable for easy installation
- ◆ Cost effective deployment of revenue generating services

Highlights

- ◆ Voice, data, IPTV, and video services supported over a single GPON passive optical link
- ◆ VoIP Softswitch or CLASS 5 based high quality voice service through four POTS lines
- ◆ High speed internet or VoIP access through two 10/100/1000 Base-T Ethernet interface

Description

Alphion's standards-based ONT family delivers cost effective revenue generating features for today's competitive access market. With the broadest array of proven interoperability, Alphion's ONT family provides flexibility for a variety of network applications. The AONT-1302 residential ONT delivers high quality VoIP voice service, Ethernet data service for high-speed internet access and IPTV broadcast video plus video on demand services.



SPECIFICATIONS



Network Interfaces:

Optical

Data rate:	2.5 Gbps downstream 1.244 Gbps upstream
Optical wavelengths:	1490 +/-10nm receive 1310 +/-20nm transmit
Launch power:	0.5 to +5 dBm
Receiver Sensitivity:	-27 dBm
Input power overload:	-8 dBm
Received optical power monitoring	
SC/PC or SC/APC connector	

Subscriber Interfaces:

POTS

Four interfaces equipped with RJ-11 connectors or IDC jacks
5 REN per line
Loop start/Ground start
Balanced and unbalanced ringing
Country specific coefficients
DTMF dialing
Metallic loop testing

Ethernet

Two RJ-45 jacks
10/100/1000 Base-T
Meets IEEE 802.1 specifications
MDI/MDIX auto-sensing
Auto-MDI/MDIX and auto speed supported

Services and Features:

GPON

Serial number discovery and registration ID provisioning
Full ITU-T G.984 compliance
Advanced Encryption Standard (AES)
Dynamic Bandwidth Allocation (DBA)
8 T-CONTS

OAM

ITU-T G.984.4 based management of all services
Remote firmware upgrade including automatic rollback
TR-069 provisioning for VoIP
SIP configuration from TConfig server

Ethernet L2

Ethernet bridging and switching per 802.1D
QoS with support with 802.1p and TOS/DSCP mapping
802.1Q including VLAN translation, filtering, tagging, stacking (QinQ)
Up to 64 VLANs
Session hijacking prevention
Automatic MAC address learning and aging
Up to 512 MAC address entries
MAC address limiting
Broadcast storm control

Voice

SIP (RFC 3261)
H.248
MGCP (RFC 3435)
SDP (RFC 2327)
RTP/RTCP (RFC 3550/3605)
RFC 2833
DTMF encoding by RELAY or IN-BAND method
CLASS service support (Caller ID, Call Waiting, Call Forwarding, Call Transfer etc.)
G.711 (μ & a law)
G.726 voice codec
T.30 FAX, modem and TTY devices
DHCP Client or static IP configuration
Echo Cancellation
Voice Activity Detection and Comfort Noise Generation
Proven interoperability with major soft switch and voice gateway vendors

LEDs

- Power
- ManagementData
- Battery
- Network
- Fail
- POTS

Dimensions and Weight

Size:	13 x 11.25 x 4.3 inches 233 x 286 x 110 mm
Weight:	5.5 lbs 2.2 kg

Environmental

ONT:	-40°C to +46°C ambient + solar load -40°F to +114.8°F
Outdoor enclosure:	-40°C to +65°C -40°F to +149°F
Humidity:	5% to 90%
Outdoor enclosure:	Sold separately

Power

Power consumption:	12 - 16 Watts
Power input:	12 to 14 Vdc
Input connector:	Phoenix type plug
Dying gasp support	
Local power via UPS with battery backup	

Regulatory Compliance

(Designed to meet the following Compliance requirements)

Safety: UL/CSA 60950, IEC 60950, ETSI
FDA – FCC 47 CFR Part 15, Class B and FDR 21 CFR 1040.10 and 1040.11 Class 1
EMC: FCC PART 15, SUBPART B, CLASS B
EN 55022, EN 55024, EN 300 386, CLASS B
CE: Compliant
RoHS: Compliant
WEEE: Compliant

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