AONT-1501

GPON ONT (1GE)

Feature Summary

◆ ITU-T G.984.1-5 standard compliant

◆ Small-form factor

◆ SC/APC optical connector

◆ Indoor wall or table mount

◆ One 10/100/1000 Base-T Ethernet RJ-45

◆ Dynamic bridging, 256 MAC addresses

◆ Extended VLAN support, 32 VLANs

◆ Classification and packet filtering

◆ IGMPv2/v3 snooping/proxy, 256 groups

◆ 8 queues per T-CONT

◆

◆ No. GEM Ports 32

◆ No. TCONT/AllocID 16

◆ Priority and rate controlled scheduling

◆ Downstream rate limiting

◆ 2,000 bytes MTU

◆ Optical line supervision
   Dying gasp support

Applications

The AONT-1501 is a compact GPON ONT designed and optimized to provide super fast data connection. The AONT-1501 has one 10/100/1000 BaseT port that can be used to provide high speed data, voice and video services. The AONT-1501 supports a wire speed data interface that supports advanced L2 and VLAN features for providing rate and priority controlled high speed internet access. To enable VoIP access, AONT-1501 supports interfacing external IAD box or home router with voice capability through the Ethernet interface. AONT-1501 supports IPTV delivered in the form of data multicast or unicast.

High Bandwidth GPON

The AONT-1501 is fully FSAN (ITU-T G.984) compliant with a 1.244 Gb/s upstream and 2.488 Gb/s downstream, Class B+ GPON system. In addition, it supports downstream AES (128-bit key) and downstream and upstream FEC RS(255,239).

Ethernet Quality of Service

The AONT-1501 has extensive Ethernet QoS features, including MAC flow control, DSCP to 802.1p mapping, upstream congestion control, and downstream traffic scheduling for premium or time sensitive content. Intelligent and robust buffer and queue management for Ethernet traffic, with individual prioritizable queues, ensures that tiered residential service offerings based on different bit-rates and QoS can be supported.

Security

The AONT-1501 comes with the latest security features, including MAC address black list and white list, selectable pass/block BPDU, and MAC address limiting.

Small form-factor

A space conscious package for simplified wall or table mounting.

Flexible Management

The AONT-1501 is managed from an Alphion OLT over the GPON's OMCI channel. The AOLT in turn is managed with either Alphion's Element Management System (AEMS) that provides configuration, profile based provisioning, event and fault management and performance monitoring for the AONT, or with a 3rd party EMS using SNMP or a legacy NMS.

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