Alphion®

Product Brief

AOLT-4000-CTL

GPON Control Card

Feature Summary

- 1+1 master/slave redundancy option for High Availability applications
- Fully Hot-swappable
- Redundant power supply and control plane
- Two 10/100Base-T RJ-45 ports for EMS
- Front-panel Telco Alarm Cut-off (ACO) button
- Front-panel critical, major and minor alarm indicator LEDs
- Front-panel LED test button
- Front-panel USB2.0 connector for local craft PC
- 2Gbyte on-board FLASH for software image and configuration data storage
- SNMP based management of the AOLT-4000 platform

Applications

One or two AOLT-4000-CTL cards, installed at either end of an AOLT-4000 chassis, can be used to control and manage the AOLT-4000 system.

High Performance Control Plane

The AOLT-4000-CTL card extends a dedicated, out-of-band GbE control plane link, over the backplane, to each slot in the AOLT-4000 chassis. The AOLT-4000-CTL card contains a high-performance embedded CPU that executes the system-level control and management plane software for the AOLT-4000 platform, including system-level resource allocations, critical alarm/event reporting, etc. The card's software implements a flexible, low-overhead inter-card communications framework that assists in fast protection switching of the switch/timing and GPON line cards in the AOLT 4000 chassis, or resources in them.

Persistent Storage

Two GBytes of persistent storage are available for configuration data and software images for all the cards in the AOLT-4000 chassis.

High Availability

To increase the control plane availability, a second mate AOLT-4000-CTL card can be inserted in the AOLT-4000 chassis, providing 1+1 redundancy. Failure of the active or standby AOLT-4000-CTL card, or both of them, does not affect the working traffic in the AOLT-4000 chassis. The AOLT-4000-CTL card also ensures high availability for other cards in the system through dedicated hardware level inter-card signaling.

Management

The AOLT-4000-CTL supports SNMP based management of all the cards in the AOLT-4000 platform from Alphion's Element Management System (AEMS). Using a GbE control plane link to AOLT-4000-SWT (the AOLT-4000 platform's Switch/Timing card), the AOLT-4000-CTL card supports in-band management of the AOLT-4000 system through one of the network uplink ports of the Switch/Timing card.

The information contained herein is for informational purposes only. Technical claims listed depend on various technical assumptions. Your experience with these products may differ if you operate the products in an environment which is different from the technical assumptions. Alphion reserves the right to modify these specifications without any prior notice. Alphion makes no warranties, expressed or implied, on the information contained in this document.

191-2000003

196 Princeton Hightstown Road,
Building 1A, Princeton Junction,
New Jersey 08550 USA

P: +1.609.936.9001
sales@alphion.com
www.alphion.com