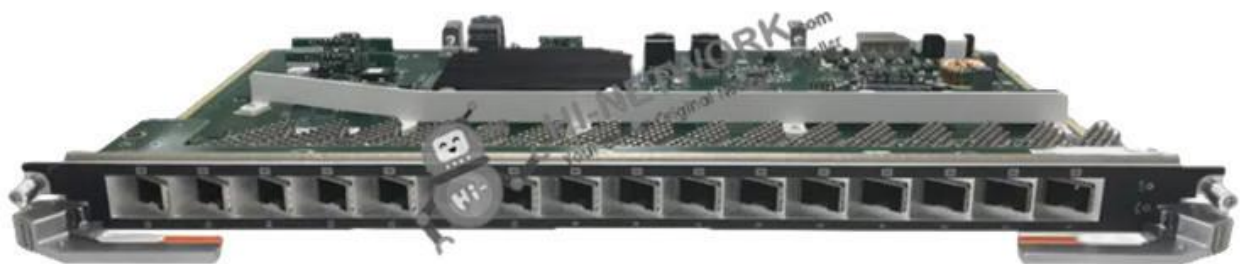Get a Quote

Overview

GPOA is a 16-port GPON card, which can be used in the chassis of Fiberhome brand AN6000-7, AN6000-15, AN6000-17, and AN6000-2. Gigabit Passive Optical Network (GPON) is a PON technology defined in the ITU-T G.984 series of standards. The figure below shows the network structure of GPON.

Quick Specification

- 16 GPOn ports

- Supports multiple services including: data, voice and IPTV

- FEC support

- Supports controllable IGMP Proxy/Multicast and multicast Snooping

Product Details:

The Front Panel:

GPOA application:

The GPON access technology provides high-bandwidth transmission, overcomes the bandwidth bottleneck in twisted pair access, and caters to users' demand for high bandwidth services.

Advantages of GPON application:

High density: Supports the split ratio of 1:128. The GPOA card allows access of up to 2048 subscribers.

High bandwidth: GPON can provide a bandwidth of 1.25 Gbit/s in the uplink direction and 2.5 Gbit/s in the downlink direction. The bandwidth can be smoothly migrated to 10 Gbit/s.

HQoS: Ensures that 4K-resolution video programs are not suspended in case of bandwidth congestion.

FEC functions: Enhances fault tolerance of the system to ODN errors.

GPOA hight-lights:

Supports Type B and Type C protections to ensure the reliability of mobile backhaul services as well as government and enterprise customer services.

Supports clock synchronization, and provides a low-cost solution for mobile backhaul services.

Transmits data in an efficient way:

Encapsulates all the data to be transmitted into 125 us frames (fixed length frames) with the new GEM encapsulation structure, which uses fewer transmission overhead bytes and improves the transmission efficiency.

The transmission efficiency can reach 93% when the downlink rate is 2.5 Gbit/s and the uplink rate is 1.25 Gbit/s.

Provides clock and time synchronization with high precision. Uses the system time transfer protocol defined in IEEE 802. 1as, and supports IEEE1588 V2.

Get more information:

Do you have any question about the GPOA?

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