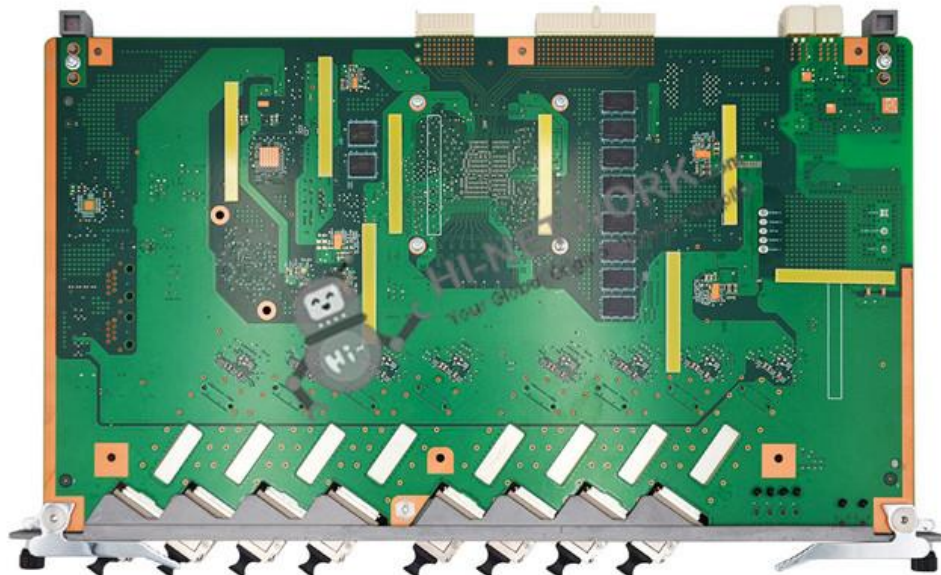# Overview

Fiberhome AN6000 OLT series GX8A 8-port XG-PON Card

Product Details:

The Front Panel:

GX8A application:

Advantages of XG-PON application:

Smooth evolution: All FiberHome OLTs in current networks support XG-PON service cards; therefore, users need not replace existing OLT equipment to provision the XG-PON service.

High bandwidth: 2.5 Gbit/s in the uplink direction and 10 Gbit/s in the downlink direction.

High split ratio: Provides a split ratio up to 1:256.

Shared ODN: XG-PON ONUs can be connected to the OLT equipment via an existing GPON ODN, based on the external wavelength division multiplexing (WDM) technology.

GX8A hight-lights:

GPON & XG-PON Combo access: GPON and XG-PON ONUs can be connected to the same service card.

Smooth upgrade: XG-PON service cards can replace GPON service cards with little configuration change. Accordingly, services can be migrated smoothly.

Software and hardware compatibility: Bandwidth can be upgraded without replacing subracks. Various PON service cards can coexist in a subrack.

Clock and time synchronization with high precision: Uses the system time transfer protocol as defined in IEEE 802. 1 as supports synchronous Ethernet (SyncE), IEEE1588 V2, and 1PPS+ToD.

Overall protection: Supports backbone fiber protection (Type B) and all-fiber protection (Type C), with a switching time of no more than 50 ms.

Efficient data transmission: Encapsulates all the data to be transmitted into 125 us frames (fixed length frames) with a 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 10 Gbit/s or the uplink rate is 2.5 Gbit/s.

Get more information:

Do you have any question about the GX8A?

Contact us now via e-mail: info@hi-network.com

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HongKong Office Tel: +00852-66181601

HangZhou Office Tel: +0086-571-86729517

Email: info@hi-network.com

Skype: echo.hinetwork

WhatsApp Business: +8618057156223