Huawei CGHF Service Board

Overview:

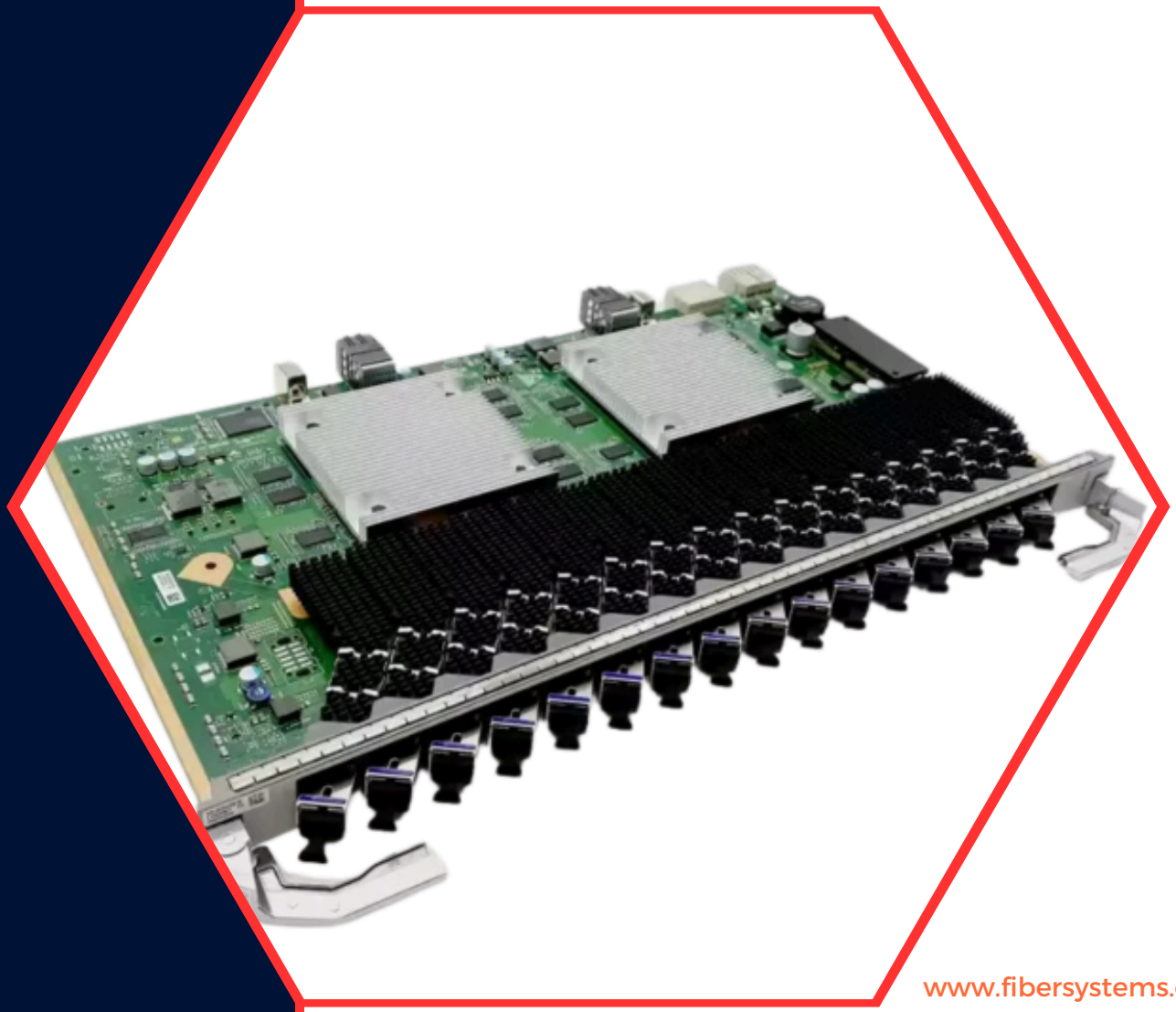
Huawei's CGHF service board is a 16-port combined XG-PON and GPON OLT interface board for MA5800 series OLT equipment. It works in conjunction with the optical network unit (ONU) to provide XG-PON and GPON access services.

Access features:

- Multi-media Gigabit Convergence: Through PON/P2P, the unified access and convergence of any medium of optical fiber, copper wire and Cable is realized, and the independent access network of multi-media is evolved into an access network with a unified architecture to achieve unified access, Converge and manage to simplify network architecture and operation and maintenance.

- The best 4K/8K/VR video experience: The single-frame MA5800 can satisfy 16,000 families to enjoy ultra-high-definition 4K/8K/VR video online at the same time; it adopts a distributed cache and has a larger cache and video burst absorption capacity, thereby Help 4K/8K/VR video start quickly or channel switching; VMOS/eMDI video surveillance can realize the intelligent perception and troubleshooting of 4K/8K/VR video experience, bringing the best network operation and maintenance experience and user business experience.

- Distributed architecture: MA5800 is the industry's first distributed architecture OLT. A single slot can support 16-port 10GPON non-blocking access, and can smoothly evolve to support 50G PON. It can achieve forwarding capabilities such as MAC and IP addresses without replacing the main control board. The linear and smooth expansion of the company fully protects customers' existing investments and makes step-by-step investments according to business development needs.



Technical specifications

Model	**CGHF**
PON ports	**16 XG-PON & GPON ports**
Operating Wavelength	**GPON Channel:** **Tx: 1490 nm; Rx: 1310 nm**
	XGPON Channel: **Tx: 1577 nm; Rx: 1270 nm**
SFP Type	**SFP +**
Port rate	**GPON Channel:** **Tx: 2.488 Gbit/s; Rx: 1.244 Gbit/s**
	XGPON Channel: **Tx: 9.953 Gbit/s; Rx: 2.488 Gbit/s**
Minimum Output Optical Power	**GPON Channel: 3dBm** **XGPON Channel: 4dBm**
Maximum Output Optical Power	**GPON Channel: 7dBm** **XGPON Channel: 8dBm**
Maximum Receiver Sensitivity	**GPON Channel: -32dBm** **XGPON Channel: -29.5dBm**
Optical Connector Type	**SC**
Optical Fiber Type	**Single-mode**
Overload Optical Power	**GPON Channel: -12dBm** **XGPON Channel: -9dBm**
Extinction Ratio	**8.2 dB**
Forwarding capability	**200 Gbit/s**
Rate mode	**Asymmetric rate**
T-CONTs per PON port	**GPON Channel: 1024** **XGPON Channel: 2048**
Service flows per PON board	**16352**
Maximum frame size	**2052 bytes** **9216 bytes (jumbo frame enabled)**
Maximum number of MAC addresses	**131072**
Power Consumption	**Static: 48 W** **Maximum: 106 W**