

FiberHome GFOA Board Datasheet	
Standard compliance	Conforms to ITU-T G.987 and G.9807 series of standards, with good interoperability.
transmission rate	GPON channel: Tx: 2.488 Gbit/s Rx: 1.244 Gbit/s XG-PON channel: Tx: 9.953 Gbit/s Rx: 2.488 Gbit/s XGS-PON channel: Tx: 9.953 Gbit/s Rx: 9.953/2.488Gbit/s
Wavelength	GPON channel: Tx: 1490 nm Rx: 1310 nm XG-PON & XGS-PON channel: Tx: 1577 nm Rx: 1270 nm
Maximum transmission distance	60 km
Maximum differential fiber distance	40 km
Maximum split ratio	1:256
Detection of optical power	Supports RSSI detection.
Detection of rogue ONUs	Supports automatic detection and location of ONUs that constantly emit light.
Compatibility	Supports various ONUs, such as SBU, SFU, MTU, cassette MDU, and MDU which can accommodate cards.
DBA	Dynamically allocates bandwidth according to subscribers' traffic status.
Reliability	Supports Type B, Type C, and Type C dual-homing protections.
Throughput	In the 10G/2.5G asymmetric access mode, when the XGS-PON system is fully configured with services (64 ONUs), the uplink throughput is no less than 1.9 Gbit/s, and the downlink throughput is no less than 8.5 Gbit/s. In the 10G/10G symmetric access mode, when the XGS-PON system is fully configured with services (64 ONUs), both the uplink throughput and the downlink throughput are no less than 8.5 Gbit/s.
transmission delay	The uplink average transmission delay (when the traffic is no more than 90% of the system throughput) is less than 1.5 ms (packets of all sizes are counted).
	The downlink average transmission delay (when the traffic is no more than 90% of the system throughput) is less than 1 ms (packets of all sizes are counted).