

FiberHome EXOA Board Datasheet	
Standard compliance	Supports the 10G EPON functions defined in IEEE 802.3av.
Transmission rate	In the symmetric mode: Uplink: 10 Gbit/s Downlink: 10 Gbit/s In the asymmetric mode: Uplink: 1.25 Gbit/s Downlink: 10 Gbit/s
Wavelength	In the symmetric mode: u Uplink: 1260 nm to 1280 nm u Downlink: 1575 nm to 1580 nm In the asymmetric mode: Uplink: 1260 nm to 1360 nm Downlink: 1575 nm to 1580 nm
Maximum transmission distance	60 km
Maximum differential fiber distance	60 km
Maximum split ratio	1:128
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 kinds of ONUs, such as SBU, SFU, MTU, cassette MDU, and MDU which can accommodate cards.
DBA function	Supports three bandwidth types: fixed bandwidth, assured bandwidth, and maximum bandwidth.
	Supports the dynamic bandwidth allocation (DBA) algorithm.
Reliability	Supports Type B, Type C, and Type C dual-homing protections.
Throughput	In the 10G/1G asymmetric access mode, if 10G/1G EPON ONUs are connected only, the downlink throughput is no less than 8.3 Gbit/s, and the uplink throughput is no less than 900 Mbit/s.
	In the 10G/10G symmetric access mode, if 10G/10G EPON ONUs are connected only, the downlink throughput is no less than 8.3 Gbit/s, and the uplink throughput is no less than 8 Gbit/s.
Transmission delay	When the split ratio is 1:32, the uplink average transmission delay (when the traffic is no more than 90% of the PON port throughput) is less than 1.5 ms.
	The downlink average transmission delay (when the traffic is no more than 90% of the PON port throughput) is less than 1 ms.