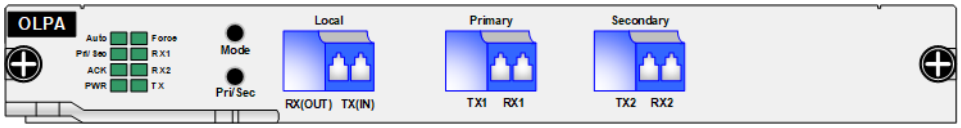
TYPE: Sepitam-OLP

optical line protection board

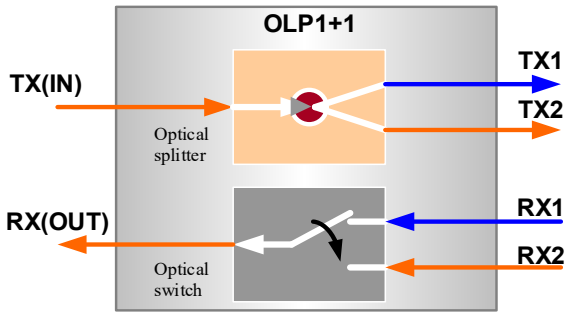
Description

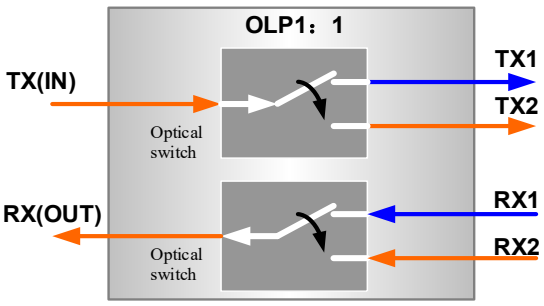
OLP is an optical wavelength/line protection board. Its main function is to perform a real-time monitoring on the state of signals in the main and backup fiber. Once the fiber core is blocked or under degradation, it can switch automatically and safely between the main and backup fiber to guarantee prompt recovery of optical signals on the system line. OLP technology is to complete the routing switch operation at the optical layer. The optical layer protection has the incomparable advantages over the upper services protection, and it is the best solution to provide users with an uninterrupted communication.

Product diagram



Functional structure





Product specification

Product Model		OLPA(1+1)	OLPB(1:1)
Work wavelength range		1260nm~1650nm	
Occupied slot number		Occupy 1 slot, suitable for the platform of the whole OTN1000 series	
Switch mechanism		Selectively receiving from double transmitting, and then single-end switches	Selectively receiving and transmitting, and then both-ends simultaneous switch
Switch time		< 20ms	< 40ms
Introduction loss	TX-TX1	< 3.5 db	< 0.8dB
	TX-TX2	< 3.5 db	< 0.8dB
	RX1-RX	< 0.8dB	< 0.8dB
	RX2-RX	< 0.8dB	< 0.8dB
Monitoring of optical power range		-50 dBm~+ 25 dBm	
Network management function		It supports the OLP optical power real-time monitoring, active switch scheduling, performance management, routing management, and other management functions	
Application scenes		Used for optical line 1+1 protection, optical wavelength 1+1 protection	
Optical interface		All interfaces are LC type	
Typical power consumption		5 w	
MTBF		> 100000 hours	

Technical Specification of

Sepitam-OLP

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