

OLPA-BiDi optical protection board

OLPA-BiDi is an optical wavelength/line protection board launched by Sintai Communication Co., Ltd in the single fiber bidirectional system. 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:

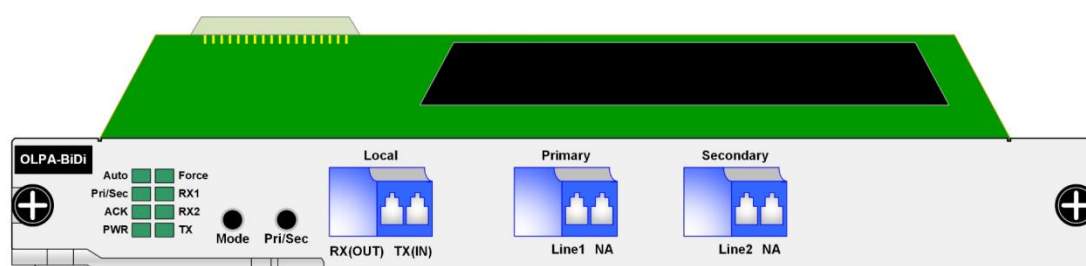


Figure 2.3.3-1 OLPA-BiDi board

■ Functional structure:



Figure 2.3.2-2 OLPA-BiDi function structure

■ **Product specification**

Item		Index
Working wavelength range		1260nm ~ 1650nm
Card model		OLPA-BiDi
Switching time		<40ms
Introduction loss	System-Line1/Line2	<4.5dB
	Line1/Line2-System	<2.5dB
Monitoring optical power range		-50 dBm ~+25dBm
Switching mechanism		Selectively receiving from double transmitting, and then single-end switches
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
Working temperature range		-10℃~60℃
Working humidity range		5%~95% no condensation
Storage temperature		-40℃~85℃
Optical interface		LC/UPC
Typical power consumption		5W
MTBF		>100000 hours