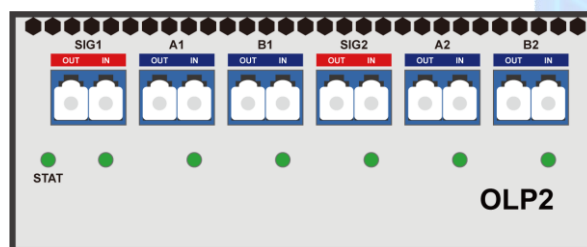


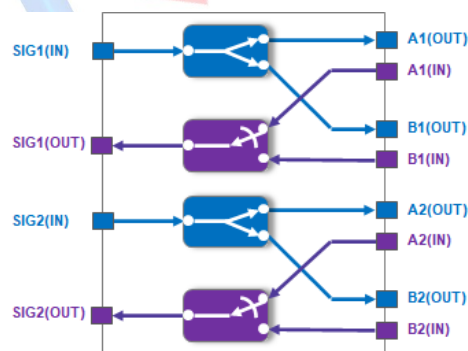
## Optical Protection Card: OLP

The main function of the OLP optical protection card launched by Sintai Communication is to assist the wavelength division system to complete optical layer protection solutions such as optical line 1+1 protection and optical wavelength 1+1 protection. It can monitor the optical signal status of the main and standby routes in real time. Once the optical signal is interrupted or the performance is degraded, it can automatically make a safe switch on the main and standby routes to ensure the rapid recovery of the optical signal of the system. OLP technology is to complete the route switching operation in the optical layer. Optical layer protection has incomparable advantages over upper layer service protection, and is the best solution to provide users with non-blocking communication.

### Product view



### Function structure



### Application case

- Suitable for optical line 1+1 protection (OLP)
- Suitable for optical multiplexing section 1+1 protection (OMSP)
- Suitable for optical channel 1+1 Protection (OCHP)

**Product specification**

OLP	
<b>Function</b>	Support optical signal 1+1 protection, double transmitting and selective receiving, single terminal switching
<b>Slot number</b>	1 slot
<b>Integration</b>	Support 1 or 2 groups of optical protection modules (optional according to the application scenario)
<b>Working wavelength range</b>	1528nm ~ 1568nm
<b>Insertion loss</b>	TX≤4 dB, RX≤1.5 dB
<b>Switching time</b>	<5 ms (switching time of pure optical switch)
<b>Input optical power</b>	-25dBm ~ +21 dBm
<b>Optical power detection accuracy</b>	±0.5 dBm (@>-25 dBm or above)
<b>Polarization dependent loss</b>	≤0.1dB
<b>Isolation degree</b>	>50dB
<b>Return loss</b>	>45dB
<b>Switching time</b>	>(10) <sup>7</sup>
<b>Switching condition</b>	Relative power difference and absolute power value
<b>Switching method</b>	Support locking, forced switching, manual switching and automatic switching
<b>Reliability</b>	Power down / power on latch, hot pluggable, and main control card failure does not affect protection switching