

Optical Line Protection (OLP) FW6OLP

The OLP optical protection board is a protection system developed by FIBERWDM for fiber optic line backup. It adopts advanced optical automatic switching modules and is an optical device used for primary and backup optical path switching in the field of fiber optic communication. It can automatically identify the signal status of the primary and backup system optical paths and perform instantaneous switching of the optical path to ensure the normal operation of the primary optical cable in the event of a complete obstruction, thereby improving the service quality of the service provider. The OLP optical line protection board is widely used in primary and backup protection of various trunk lines and in networks requiring various optical path switching. Its advantages lie in the direct utilization of optical signals in the optical line, compact size, and cost-effectiveness, making it widely used in various optical transmission fields.

Product Introduction



Figure 1: OLP Optical Protection Board

Product Features

- ◆ Supports optical line protection for both single-mode and multimode fiber

- ◆ Supports dual-fiber bidirectional and single-fiber bidirectional protection modes.
- ◆ Supports 1+1 (dual-transmitter dual-receiver) and 1:1 (transmitter selection receiver selection) protection modes.
- ◆ Wide optical power monitoring range: -50dBm to +25dBm.
- ◆ Short optical path protection switching time: <20ms.
- ◆ Supports local and remote control.
- ◆ Supports SNMP-based unified network management platform. Include CLI (telnet and console), Web, and NetView (graphical interface).

Product Specifications

Parameters			Specifications
Wavelength range			Tx1310±50nm and 1550±50nm
Detection of the optical power range	Tx		+2dBm~-50dBm
	Rx		+10dBm~-50dBm
Insertion loss	1+1 Protection	Transmitter End	≤4.0dB
		Receiver End	≤1.5dB
	1:1 Protection		≤1.5dB
Optical power measurement accuracy			≤0.5dB（+20dBm~-50dBm） ≤1.0dB（-40dBm~-50dBm）
Optical power resolution			≤0.01dB
Wavelength-dependent losses			≤0.25dB
Polarization-dependent losses			≤0.1dB
Switching Time			≤20dB
Return Loss			≤45dB
Crosstalk			≤55dB

Network Management		NetView, Web
Board Dimensions		156 (W) × 20 (H) × 225 (D) (mm)
Environment Requirement	Operating Temperature	-10℃~50℃
	Storage Temperature	-40℃~80℃
	Relative Humidity	5%~95% (non-condensing)
Safety and EMC Compliance		FCC, UL, CE, TUV, CSA standards
Power Consumption		<5W

Order Information

Part No.	Specifications
FW6OLPA	OLP Card, Optical line 1+1 protection LC/UPC,dual fiber used in used in FW6600 series take one slot
FW6OLPB	OLP Card, Optical line 1:1 protection LC/UPC,dual fiber used in used in FW6600 series take one slot
FW6OLPABD	OLP Card, Optical line 1+1 protection LC/UPC, Bi-direction used in used in FW6600 series take one slot