DATASHEET
1+1 Optical Line Protection Switch (OLP)

Plug-in Card Type

OTN Solutions for Metro, Regional & Long Haul

REV.1.0
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Description

Optical Line Protection Switch(OLP) is a product that is used in the protection of network transmission line. By real-time monitoring the power status in working fiber, it can automatically switch from working fiber to backup fiber when the power value of working fiber is lower than a user defined threshold, achieving line protection of optical transmission system.

OLP(Optical Line Protection) is a device that is used in the protection of network transmission line, it can realize optical power monitoring and automatic switching. In optical communication network, OLP monitors optical power of optical fiber and standby optical fiber at real time. In case the current optical power of optical fiber is less than pre-set switching threshold value, then alarm is on and it would switch to standby optical fiber automatically to protect optical transmission system line.

Features

• Independent of data rate, format and wavelength
• Highly configurable to fit network applications
• Real-time monitoring of standby optical power
• Transparent transmission characteristic
• Reduce the loss caused by line fault
• Increase the reliability of the transmission network, improve network quality
• High level of integration by plug-in design, to save the space of cabinet
• Remote configuration through SNMP management

Applications

• Protect backbone and important business line

Product Specifications

Operating Wavelengths	1310±50nm /1550±50nm	Return Loss	≥55dB
Insertion Loss	Tx<3.8dB, Rx<1.2dB	Monitoring Power Range	+23~ -50dBm
Monitoring Power Resolution	0.01dB	Monitoring Power Accuracy	±0.25dB
PDL	≤0.05dB	WDL	≤0.1dB
Crosstalk	≥55dB	Switching Speed	<15ms
Management	SNMPV1	Maximum Optical Power Load	300mW
Connectors	LC/UPC	For Use With	FMT managed chassis
Operating Temperature	-10~+50°C	Storage Temperature	-40~+80°C

Dimensions

4-slot 1U managed chassis, supports up to 4x multiplexer/EDFA/OEO/OLP card with accessories;

- Width: 482.6mm(19")
- Height: 44.50mm(1.75")
- Depth: 300mm(11.81")

OLP plug-in card occupies one slot.

440mm

300mm

44.5mm

482.6mm

Ordering Information

Protected Mode	OLP 1+1 OLP 1:1
Connector	LC/UPC SC/UPC
Fiber Type	SMF 1310±50nm/1550±50nm
Housing	1U 19" Rack Mount Plug-in Card Type
Power 1	100V-240VAC 36V-72VDC
Power 2	100V-240VAC 36V-72VDC

*Customized specifications are available upon request.

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