



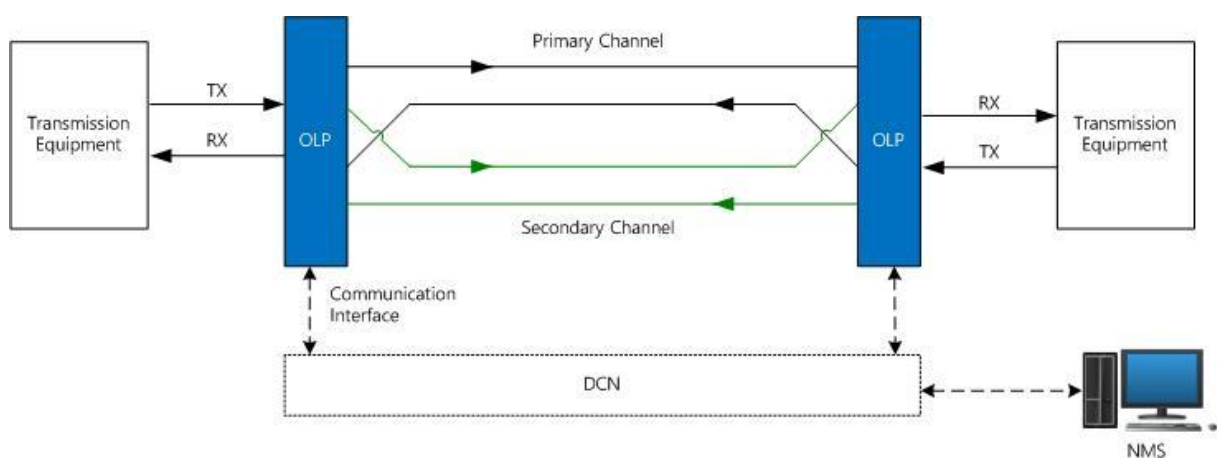
Optical Fiber Line Auto Switch Protection System

OLP System

Description

OLP (Optical Fiber Line Auto Switch Protection System) is a product that used in the protection of optical transmission line, it can realize optical power real-time monitoring and automatic optical fiber line switching.

When the primary optical fiber is accidentally broken or the performance is degraded, the OLP equipment will automatically switch the working channel from Primary to Secondary to realize the protection of optical transmission line.



Applications

- > Optical fiber line auto switch protection.
- > Real time monitoring of fiber quality by optical power.
- > Emergency dispatching of working routes.

OLP System

■ Advantages

- > Carrier grade switching speed.
- > High optical performance.
- > Support dual power supplies for redundancy.
- > Support NMS for unified OAM.

■ Equipment Types

Compact OLP (1U compact type)



Pluggable OLP (1/2/4U pluggable type)



Compact OLP

■ Features

- > Economical OLP solution.
- > 1U compact size for easy deployment.
- > Support panel key control with LCD display.
- > Support 1+1, 1:1, 1-1 three kinds of protection methods.

■ Specifications

Parameters	Unit	1:1	1+1	1-1
Working Wavelength	nm	1310±50nm, 1550±50nm		
Optical Power Monitoring Range	dBm	+23 ~ -50		
Optical Power Monitoring Accuracy	dB	±0.25		
Optical Power Monitoring Resolution	dB	±0.01		
Return Loss	dB	≥55		
Insertion Loss	dB	TX<1.2 RX<1.2	TX<4 RX<1.2	<1.2
Switching Time	ms	<35	<15	<15
Working Life	times	>10 ⁷		
Working Temperature	°C	-10 ~ +60		
Storage Temperature	°C	-20 ~ +75°C		
Power Supply	V	-48V DC, 220V AC, Support dual PS		
Power down Status		Maintain or Switch to backup path		
Optical Interface		SC/LC (selectable)		
Management Interface		RJ-45, RS-232		
Rack Size		19"inch, 1U height		

Pluggable OLP

■ Features

- > Highly-scalable platform by pluggable design.
- > High integration, large capacity. (2ch OLP per 0.5U card)
- > Optional OTDR test function for fiber OAM.
- > Optional EDFA to achieve long-haul transmission.

■ Specifications

Parameters		Unit	1:1	1+1
Working Wavelength		nm	1310±50nm, 1550±50nm	
Optical Power Monitoring Range		dBm	+23 ~ -50	
Optical Power Monitoring Accuracy		dB	±0.25	
Optical Power Monitoring Resolution		dB	±0.01	
Switching Time		ms	<35	<15
Insertion Loss		dB	TX<1.2, RX<1.2	TX<4.0, RX<1.2
Return Loss		dB	≥55	
OTDR	Working Wavelength	nm	1625	
	Dynamic Range	dB	Max.40	
EDFA	Working Wavelength	nm	1528 ~ 1563	
	Input Power	dBm	-24 ~ +2	
	Output Power	dBm	-4 ~ +20	
	Gain Adjustable Range	dB	+17 ~ +23	
Optical Interface			LC	
Management Interface			RJ-45	
Power Supply		V	-48V DC, 220V AC, Support dual PS	
Power down Status			Maintain or Switch to backup path	
Working Temperature		°C	-10 ~ +60	
Rack Size			19'inch, 1/2/4U height	

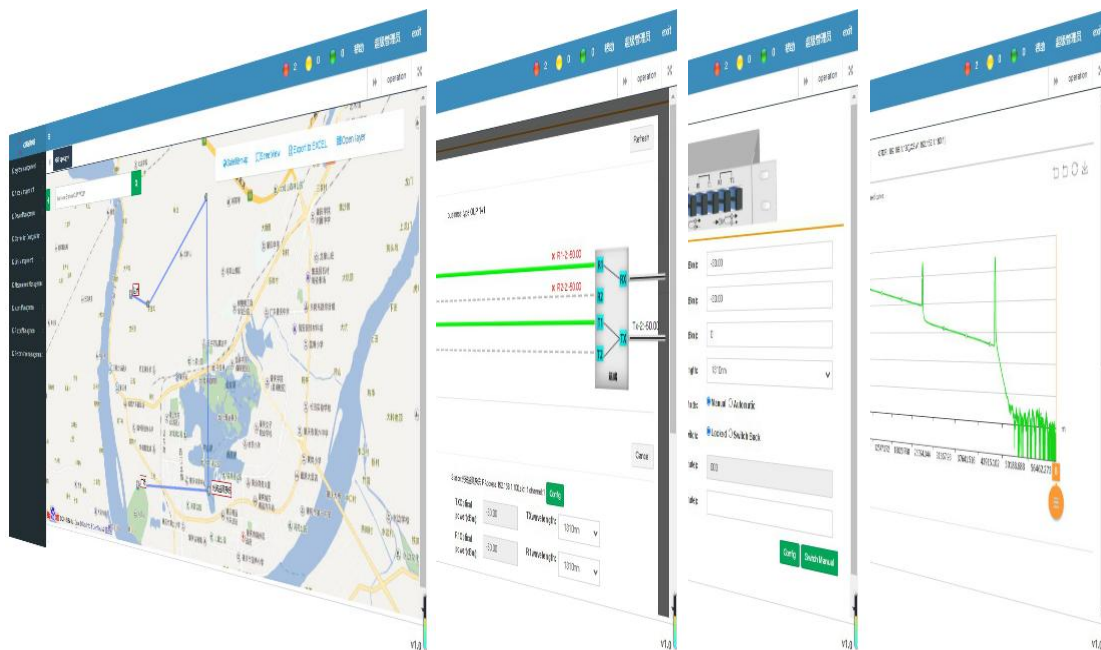
Network Management System

■ Features

- > Support Windows OS.
- > Web-base access, friendly operation.
- > GIS platform for visualized management and location.

■ Functions

- > System Management
- > Equipment Management
- > OLP Management
- > Alarm Management
- > GIS Topology Management
- > OTDR Test Management
- > Report Management





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