

1+1 Optical Line Protection Switch (OLP)

PLUG-IN CARD TYPE OTN SOLUTIONS FOR METRO, REGIONAL & LONG HAUL



Overview

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.

Benefits

- Transparent Transmission Regardless of Data Rate, Format, and Wavelength
- Highly Configurable to Fit Network Applications
- Real-time Monitoring of Standby Optical Power
- 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

Product Specifications

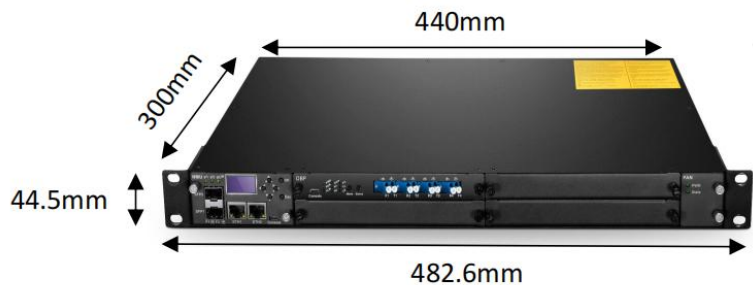
Parameters	Description	Parameters	Description
Operating Wavelengths	1310±50nm/1550±50nm	Return Loss	≥55dB
Insertion loss	Tx<3.8dB, Rx<1.2dB	Monitoring Power Range	+23~-50dBm
Monitoring Power Accuracy	±0.25dB	Optical Power Resolution	0.01dB
PDL	≤0.05dB	WDL	≤0.1dB
Crosstalk	≥55dB	Switching Speed	<15ms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



Ordering Information

Chassis		
1U	FMT04-CH1U	FMT04-CH1U, 1U Managed Chassis Unloaded Platform, Supports up to 4x EDFA/OEO/OLP Card #39214
1U/2U/4U	FMT-CH	Customized 1U/2U/4U Managed Chassis Unloaded, Supports up to 16x Multiplexer/EDFA/OEO/OLP Module with Accessories #70413
Transponder		
10G	FMT4DL-OEO10GSFP	FMT4DL-OEO10GSFP, 4 Channels WDM Transponder (Converter), 8 SFP/SFP+ Slots #30515
25G	FMT4DL-OEO25GSFP28	FMT4DL-OEO25GSFP28, 4 Channels 25G WDM Transponder (Converter), 8 SFP28/SFP+ Slots #92056
Optical Amplifiers		
20dB	FMT20PA-EDFA	FMT20PA-EDFA, 20dB Gain DWDM EDFA Pre-Amplifier, 13dBm Output #72284
26dB	FMT26PA-EDFA	FMT26PA-EDFA, 26dB Gain DWDM EDFA Pre-Amplifier, 16dBm Output #36524
17dB	FMT17BA-EDFA	FMT17BA-EDFA, 17dBm Output DWDM EDFA Booster Amplifier, 17dB Gain #72283
16/17/20/24/28/32dB	EDFA-LA	Customized In-Line EDFA for DWDM Solution #35924
—	HPA	Customized FTTx PON High Power 1550nm EYDFA #65789
10/14/17/18/22/24dB	EDFA-BA	Customized Booster EDFA for DWDM Solution #35926
16/20/24/26/28/32dB	EDFA-PA	Customized Pre-Amplifier EDFA for DWDM Solution #35925
10/11/12/13/14dB	FS-SOA	Customized 1310nm Semiconductor Optical Amplifier (SOA) #69350
DCMs		
40KM	FMT40-DCM	FMT40-DCM, 40KM DCF-based Passive Dispersion Compensation Module #65781
80KM	FMT80-DCM	FMT80-DCM, 80KM DCF-based Passive Dispersion Compensation Module #65779
10-140KM	FS-DCM	Customized DCF-based Dispersion Compensation Module #65783
-20→+20KM -40→+40KM	FS-TDCM	Customized C-band Tunable Dispersion Compensation Module (TDCM) #72427
Line Protection		
OLP	FMT-OLP	FMT-OLP, 1:1 Optical Line Protection Switch #192620
	FMT-OLP2	FMT-OLP2, 1+1 Optical Line Protection Switch #66010
	FS-OLP	Customized Optical Line Protection Switch (OLP) #34720
	FMT-BDOLP	Customized BIDI Optical Line Protection Switch (OLP) #72700
BIDI Splitter	FMT-BDSplitter	FMT-BDSplitter, Optical Splitter #73324

Ordering Information

Fiber Monitoring

OPD	FMT-4OPD	FMT-4OPD, 4 Channels 1550nm Optical Power Detection OPD (AIU) #78568
	FMT-OPD	Customized Optical Power Detection OPD (AIU) #70941
LSU	FMT-LSU	Customized LSU Light Source Unit, Pluggable Module for FMT Multi-Service Transport Platform #78469
OSW	FMTOSW-1x16	Customized 1x16 Multi-Channel Opto-Mechanical Optical Switches with Adjustable Channels Control #73287
OPM	FMT-OPM	FMT-OPM, Optical Performance Monitoring (OPM) #71586
OTDR	FMT-OTDR	Customized Optical Time Domain Reflectometer (OTDR) #73281

Accessories

Power Supply	FMT124U-PS	Customized Power Supply Module Tailored for FMT 1U/2U/4U Managed Chassis #66922
Cooling Fan	FMT1U-FAN	Cooling Fan Card Tailored for FMT 1U Managed Chassis #66916
	FMT-FAN	Customized Cooling Fan Module Tailored for FMT 1U/2U/4U Managed Chassis #70414
Red/Blue Filter	FSBR-1x2	Customized 1x2 Single Fiber DWDM Splitter Red/Blue C Band Filter #65981
VOA Units	FS-VOA-C	Customized Variable Optical Attenuator, 0~15dB, LC/UPC #65271
NMU	FMT-MNG-S	FMT-MNG-S, Network Management Unit for FMT 1U, 2U and 4U Managed Chassis, , 2x 100Base-X SFP Ports, 2x 10/100Base-T RJ45 Ports #66915