

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.

FMT Series provides cost-effective and flexible WDM solutions. It has a variety of optical layer boards and provides excellent optical performance, and can be applied to DWDM dual-fiber/DWDM single-fiber/optical cable monitoring systems, to meet the diverse needs of scenarios.

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

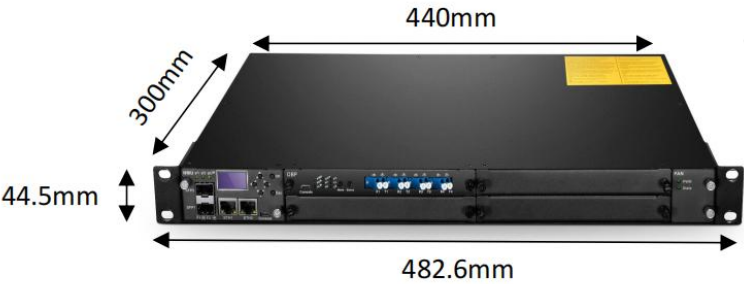
Parameters	Description	Parameters	Description
Operating Wavelengths	1310±50nm/1550±50nm	Monitoring Power Range(dBm)	+23~-50
Protected Mode	OLP 1:1	Fiber Type	SMF
Monitoring Power Accuracy(dB)	±0.25	Optical Power Resolution(dB)	0.01
Isolation(dB)	≥45	Crosstalk(dB)	≥55
PDL	≤0.05dB	WDL	≤0.1dB
Operating Life(cycle)	>10000000	Optical Power(mW)	≤300
Insertion loss(dB)	Tx<1.5, Rx<1.2	Switching Speed(ms)	<35
Consumption(W)	<3	Connector	LC/UPC
Housing	Plug-in Card Type 1U 19" Rack Mount	Power Supply	100V-240VAC 36V-72VDC
Storage Temperature	-40 to 80°C (-40 to 176°F)	Operation Temperature	-10 to 50°C (14 to 122°F)

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		
	FMT-OLP	FMT-OLP, 1:1 Optical Line Protection Switch #192620
OLP	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 MEMS 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, 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