

Optical Splitter for Single-Fiber Bidirectional Transmission

Plug-in Card Type

OTN Solutions for Metro, Regional & Long Haul



Description

Optical Splitter is a product that is used in the protection of network transmission line. In single fiber bidirectional system, it can be used with Optical Line Protection Switch(OLP) to 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.

Splitter needs to be used together with BIDI OLP to provide line protection for single fiber bidirectional transmission. The working mode of BIDI is dual transmitting and selective receiving. Optical line protection is realized by ways of bidirectional transmission over single optical fiber. It is mainly applicable to scenarios when there are limited amount of optical fiber resources.

Features

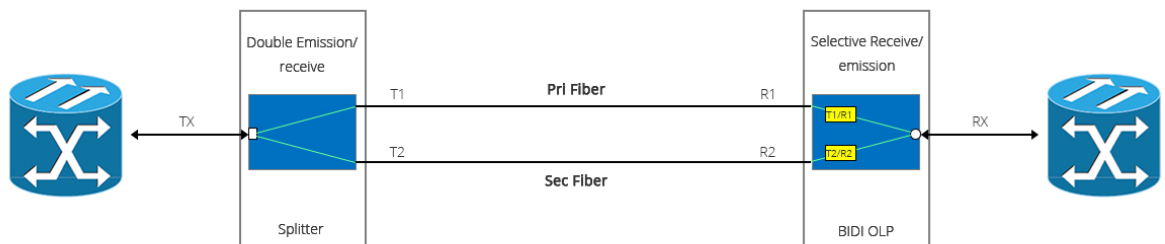
- Independent of data rate, format and wavelength
- Real-time monitoring of standby optical power
- Transparent transmission characteristic
- Uniform Distribution of Optical Signal
- Reduce the loss caused by line fault
- Increase the reliability of the transmission network, improve network quality
- Fastswitching between primary and secondary optical lines(<15ms)
- High level of integration by plug-in design, to save the space of cabinet

Product Specifications

Operating Wavelengths	C21-C60/1270nm~1610nm	Return Loss	≥55dB
Insertion Loss	Splitter<3.8dB, BIDI OLP<1.2dB	Monitoring Power Range	+23~ -50dBm
Optical Power Resolution	0.01dB	Monitoring Optical Power Accuracy	±0.25dB
PDL	≤0.05dB	WDL	≤0.1dB
Crosstalk	≥55dB	Switching Speed	<15ms
Isolation	≥45dB	Optical Power	≤500mW
Connectors	LC/UFC	For Use With	FMT managed chassis
Operation Temperature	-10° C~ +50° C	Storage Temperature	-40° C~ +80° C

Application

Splitter & BIDI OLP only requires two optical fibers to implement the optical path protection for the single fiber bidirectional transmission. When the main fiber fails, the receiving end automatically switches to the standby fiber to ensure that the communication does not be blocked, improving the stability and reliability and saving fiber resources. While for Rx, the optical signal with better quality will be selected.

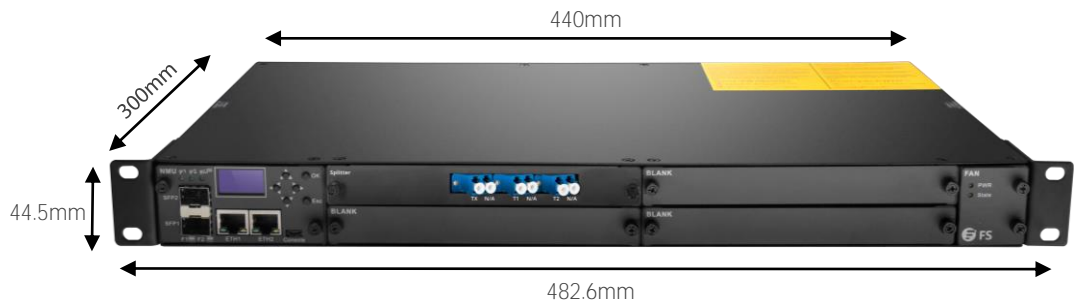


Dimensions

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

- Width: 482.6mm (19")
- Height: 44.5mm (1.75")
- Depth: 300mm (11.81")

Optical Splitter plug-in card occupies one slot.



Ordering Information

Mux Demux & OADM	
	<p>FMU-D402160M3 40 Channels 100GHz C21-C60, with 1310nm and Monitor Port, 3.5dB Typical IL, LC/UPC, Dual Fiber DWDM Mux Demux, 1U Rack Mount #35887</p>
DWDM MUX DEMUX	<p>M6200-D2160M 40 Channels 100GHz C21-C60 Dual Fiber DWDM Mux and Demux with Monitor Port, Pluggable Module, LC/UPC, Integrated with M6200 Series Managed Chassis #120424</p> <p>FMU-D162136EM3 16 Channels 100GHz C21-C36, with Monitor, Expansion and 1310nm Port, LC/UPC, Dual Fiber DWDM Mux Demux, 1U Rack Mount #72430</p>
CWDM MUX DEMUX	<p>FMU-MD085360EM3 CWDM/DWDM Hybrid Solution, 8 Channels 100GHz C53-C60, with Monitor, Expansion and 1310nm Port, LC/UPC, Dual Fiber DWDM Mux Demux, FMU Plug-in Module #72433</p> <p>FMU-C182761M 18 Channels 1270-1610nm, with Monitor Port, LC/UPC, Dual Fiber CWDM Mux Demux, 1U Rack Mount #33489</p> <p>FMU-MC084761EM 8 Channels 1470-1610nm, with Monitor and Expansion Port, LC/UPC, Dual Fiber, Low Insertion Loss CWDM Mux Demux, FMU Plug-in Module #78163</p>
LWDM MUX DEMUX	<p>ABS-L042930A 4 Channels 1295.56-1309.14nm, Single Fiber LAN-WDM Mux Demux, Side-A, ABS Pigtailed Module, LC/UPC #97782</p> <p>ABS-C062737A 6 Channels 1271-1371nm, Single Fiber CWDM Mux Demux, Side-A, ABS Pigtailed Module, LC/UPC #97784</p>
OADM	<p>DOADM-DE Customized Dual Fiber & Single Fiber DWDM OADM #70427</p> <p>COADM-DE Customized Dual Fiber & Single Fiber CWDM OADM #70425</p>
Chassis	<p>FMU-1UFMX-N FMU 2-Slot 1U 19" Rack Chassis Unloaded, holds up to 2 Units FMU Plug-in Module #30408</p> <p>FUD-1UFMX-N FUD 4-Slot 1U 19" Rack Chassis Unloaded, holds up to 4 Units FUD Plug-in Module #106578</p>

TRANSPONDERS & MUXPONDERS

25G	FMT4DL-OEO25GSFP28	4 Channels 25G WDM Transponder (Converter), 8 SFP28/SFP+ Slots#92056
10G	FMT4DL-OEO10GSFP	4 Channels WDM Transponder (Converter), 8 SFP/SFP+ Slots#30515
Chassis	FMT04-CH1U	1U Managed Chassis Unloaded Platform, Supports up to 4x EDFA/OEO/OLP Card with Accessories #39214
	FMT-CH	Customized 1U/2U/4U Managed Chassis Unloaded, Supports up to 16x Multiplexer/EDFA/OEO/OLP Module with Accessories #70413

OPEN LINE SYSTEM

Amplifiers	FMT26PA-EDFA	26dB Gain DWDM EDFA Pre-Amplifier, 16dBm Output#36524
	FMT20PA-EDFA	20dB Gain DWDM EDFA Pre-Amplifier, 13dBm Output#72284
	FMT17BA-EDFA	17dBm Output DWDM EDFA Booster Amplifier, 17dB Gain #72283
	FMT-LA	In-Line EDFA for DWDM Solution#35924
Dispersion Compensation	FMT40-DCM	40KM DCF-based Passive Dispersion Compensation Module#65781
	FMT80-DCM	80KM DCF-based Passive Dispersion Compensation Module#65779
	FS-TDCM	C-band Tunable Dispersion Compensation Module (TDCM)#72427
Line Protection	FMT-OLP2	1+1 Optical Line Protection Switch (OLP)#66010
	FMT-BDOLP	FMT-BDOLP, Optical Line Protection Switch (OLP)#72700
	FMT-BDSplitter	FMT-BDSplitter, Optical Splitter#73324
Red/Blue Filter	FMT-RB	1x2 Single Fiber DWDM Splitter Red/Blue C Band Filter#65981
	FMT-OPD	4 Channels 1550nm Optical Power Detection OPD (AIU)#78568
	FMT-OPM	Optical Performance Monitoring (OPM)#71586
Fiber Monitoring	FMT-OSW	1x16 Multi-Channel Opto-Mechanical Optical Switches with Adjustable Channels Control#73287
	FMT-OTDR	Optical Time Domain Reflectometer (OTDR)#73281
	FMT-LSU	LSU Light Source Unit, Pluggable Module for FMT Multi-Service Transport Platform#78469
VOA Units	FS-VOA-C	Variable Optical Attenuator, 0~15dB, Pluggable Module, LC/UPC#65271
	AT-M-LCU	Fixed Fiber Optic Attenuators #70009

Chassis	FMT04-CH1U	1U Managed Chassis Unloaded Platform, Supports up to 4x EDFA/OEO/OLP Card with Accessories #39214
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WDM TRANSCEIVERS		
25G SFP28	DWDM-SFP25G-10	25G DWDM SFP28 100GHz 1563.86nm 10km DOM LC SMF Optical Transceiver Module #87000
	CWDM-SFP25G-40S	25G 1270nm CWDM SFP28 40km DOM LC SMF Optical Transceiver Module #100112
	CWDM-SFP25G-10SP	25G 1270nm CWDM SFP28 10km DOM LC SMF Optical Transceiver Module #76003
16G/8G FC	LWDM-SFP25G-40	25G LWDM SFP28 1286.66nm 40km DOM LC SMF Optical Transceiver Module #93786
	DWDM-SFP16G-40	Customized 16G DWDM SFP+ C20-C61 100GHz 40km DDM LC SMF Transceiver Module#73084
	DWDM-SFP16GH-40	Customized 16G DWDM SFP+ 50GHz 40km DDM LC SMF Transceiver Module #73085
10G SFP+	CWDM-SFP16G-40	Customized 16G Fiber Channel CWDM SFP+ 1470-1610nm 40km DDM LC SMF Transceiver Module #80765
	DWDM-SFP10G-80	10G DWDM SFP+ 1559.79nm 80km DOM LC SMF Transceiver Module, Commercial Temperature#31237, Industrial Temperature#113562
	DWDM-SFP10G-40	10G DWDM SFP+ 1560.61nm 40km DOM LC SMF Transceiver Module, Commercial Temperature#38731, Industrial Temperature#113511
1G SFP	DWDM-SFP10G-C	10G DWDM C-band Tunable SFP+ 50GHz 80km DOM LC SMF Transceiver Module #69267
	CWDM-SFP10G-80L	10G CWDM SFP+ 1470nm 80km DOM LC SMF Transceiver Module #19367
	CWDM-SFP10G-40S	10G CWDM SFP+ 1270nm 40km DOM LC SMF Transceiver Module, Commercial Temperature#22168, Industrial Temperature#112392
1G SFP	DWDM-SFP1G-EZX	1000BASE-DWDM SFP 100GHz 1563.86nm 100km DOM LC SMF Transceiver Module #54150
	DWDM-SFP1G-ZX	1000BASE-DWDM SFP 1563.86nm 80km DOM LC SMF Transceiver Module #47697
	CWDM-SFP1G-EZX	1000BASE-CWDM SFP 1270nm 120km DOM LC SMF Transceiver Module #102776
	CWDM-SFP1G-ZX	1000BASE-CWDM SFP 1270nm 80km DOM LC SMF Transceiver Module #33234



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