

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

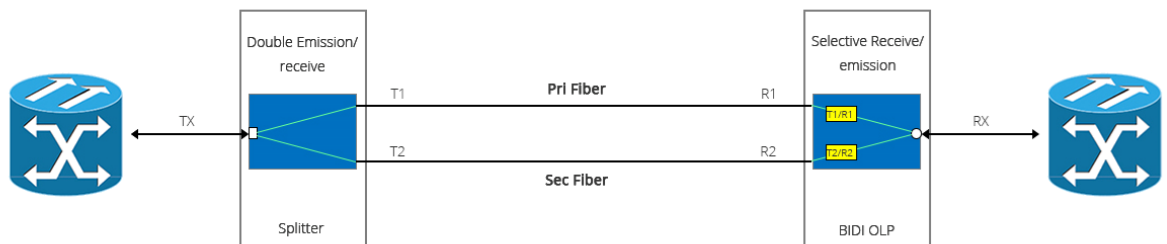
- Independent of data rate, format and wavelength
- Real-time monitoring of standby optical power
- Transparent transmission characteristic
- Uniform Distribution of Optical Signal
- Reduce the loss caused by line fault
- Increase the reliability of the transmission network, improve network quality
- 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/UPC	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.

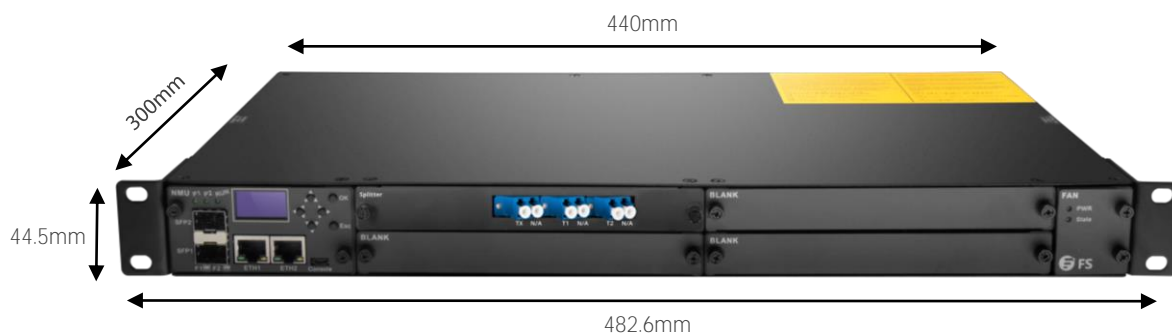


Dimensions

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

ID	Connector	Housing	Description
#72700	LC/UPC	Pluggable Module	Optical Line Protection Switch (OLP), Pluggable Module for Single-Fiber Bidirectional Transmission
#73324	LC/UPC	Pluggable Module	Optical Splitter, Pluggable Module for Single-Fiber Bidirectional Transmission



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