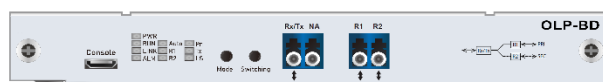


F520 OLP 1+1 BiDi (Optical Line Protection 1+1 Bi-Direction)

Part Number: F520-OLP1+1-BD



Overview

OLP1+1-BD is the Line Protection BiDi module of the F520 optical multi-service transmission platform solution. It has optical power monitoring, optical line auto-switching function for automatic protection of a particularly important service channel, enabling a higher availability and reliability for critical mission customers. The OLP1+1-BD monitors the optical power at real time and the receiving end selects primary path to receive optical signals when the primary link is up and switches to secondary path if primary link goes down. It provides 1+1 protection scheme on single-fiber R/B transmission task and is a cost-effective, high-quality management equipment which could be implemented for device configuration, control and maintenance easily.

Applications

- Metro DWDM distance extension
- Long-Haul transmission system
- Optical Line Protection

Features

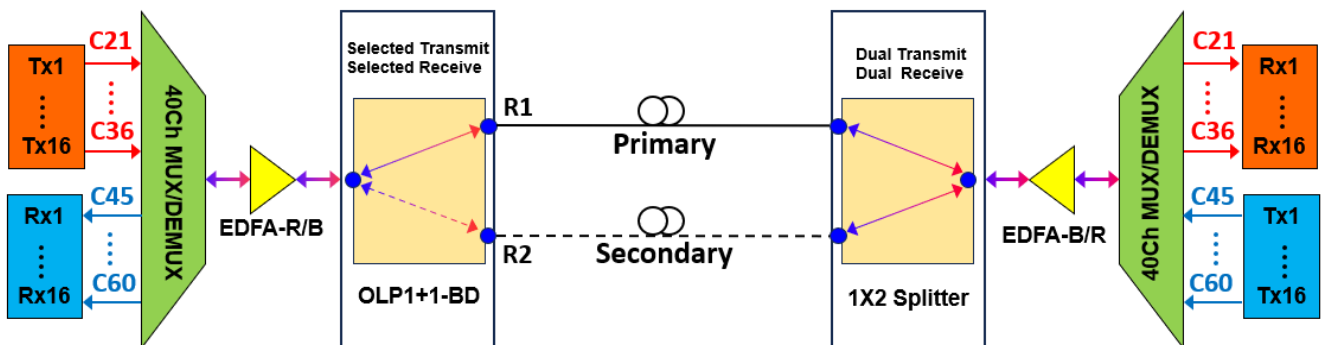
- Reduce interrupt time of communication caused by fiber failure remarkably
- Real-Time fiber power monitoring
- Transparent Data Rate transmission
- Support Automatic and Manual Switching
- 1+1 protection scheme available
- Work under Red / Blue light single fiber system
- Work with 1X2 Splitter on one side.
- Switching time< 20ms
- Support all F520 Chassis



Specification

Parameters	Technical indicators	Unit
OLP Scheme	1+1	
Insertion Loss	OLP ≤ 1.5 , Spitter ≤ 4 (Total ≤ 5.5)	dB
Switching Time	≤ 20	ms
DWDM Operating Wavelength	Red: 1547~1561 (C21~C36) Blue: 1528~1541 (C45~C60)	nm
Monitoring Power Range	-50 ~ +23	dBm
Monitoring Power Accuracy	± 0.25	dB
Monitoring Power Resolution	± 0.01	dB
Polarization Dependent Loss	≤ 0.05	dB
Wavelength Dependent Loss	≤ 0.1	dB
Return Loss	≤ -50	dB
Durability(Life) Times	$\geq 10^7$	
Power Comsumption	≤ 5	W
Size	191(W) x 253(D) x 20(H)	Mm
Operating Temperature	-10 ~ +60	°C
Storage Temperature	-40 ~ +85	°C
Relative Humidity	5 ~ 95	RH%

Application Diagram





Ordering Information

Part No.	Function	Switching Time(ms)	Insertion Loss(dB)
F520-OLP1+1-BD	Selected Transmitting and Receiving Single Fiber, Bi-Direction	≤20	≤1.5
F520-PLC1X2	1X2 PLC Splitter Dual Transmitting and Receiving Single Fiber, Bi-Direction	N/A	≤4