FRM220-OPS51M

1:1 Multi-mode Optical Protection Switch

The FRM220-OPS51M is a Multi-mode Fiber Optical Protection Switch that is able to provide Multi-mode fiber path redundancy on a channel by channel basis. This unit is particularly well suited for protection in 50/125um Multi-mode 850nm type of fiber data transmission. This solution includes monitoring capabilities for the working fiber only. In case of a fiber cut in the active path, traffic will be switched over to the protected path in less than 50ms. Monitoring is available through SNMP Management when both card is placed in FRM220 rack with SNMP management. The management can view the converter card's status, type, version, fiber link status and alarms. The card can be configured to enable or disable the port, reset the port, and configure receive threshold levels for path switching.
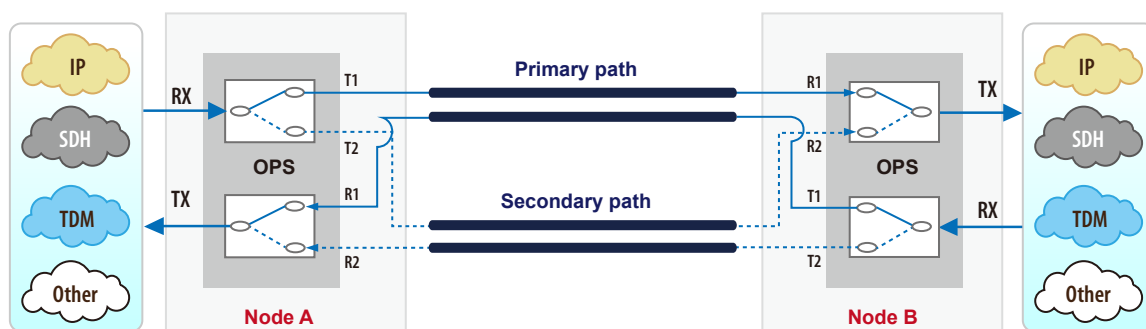
Features

- Latch feature, if power is lost the switch remains in its current state
- Work with Multi-mode 850 wavelength
- Traffic is switched in one of two modes : non-revertive, manual
- Programmable RX threshold setting for switch-over
- Optical interface type : LC connector
- Working and protected lines are physically separated fiber
- High channel isolation
- Highly stable and reliable

Specifications

Connecter LC / PC	LC / PC
LEDs	Power System, Working Path, Protection Path, Work mode
Power	DC 12V In
Operating Wavelength	850nm
Fiber Type	Multimode 50/125um
Switch Type	2x1 / Latching
Input Power (Optical)	-30~5dBm
Insertion Loss	≤ 3dB (Pair)
Return Loss	≥ 30dB (SM)

Cross-talk	≥ 30dB (SM)
Restoration Time	≤20ms
Power Consumption	< 3W
Dimensions	159.5 × 20.8 × 88mm (D × W × H)
Weight	130g
Temperature	0 ~ 50℃ (Operating), -10 ~ 70℃ (Storage)
Humidity	5%RH to 95%RH non-condensing
Certification	CE, FCC
MTBF	65,000 hours

Application

Ordering Information

Model Name	Description
FRM220-OPS51M	1:1 multi-mode fiber optical line protection switch card, dual fiber on WAN port, LC/PC connector

Specifications & design are subject to change without prior notice. Please visit CTC Union website for more details.   www.ctcu.com / sales@ctcu.com

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