FRM220-2.7G-3S

2.7G Transponder (3R) with Optical Line Protection

The FRM220-2.7G-3S is a 3R 2.7G optical repeater and transponder, which consists of Re-amplification, Re-shaping and Re-timing. The transponder card converts a data signal to the correct wavelength for transmission on a specific channel by supporting SFP optics on both line side and client side interfaces. 1+1 Automatic optical line Protection Switching are supported for the aggregate fiber ports. When the FRM220-2.7G-3S card is placed in the 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 set the desired data rate to match the transmitted protocol.
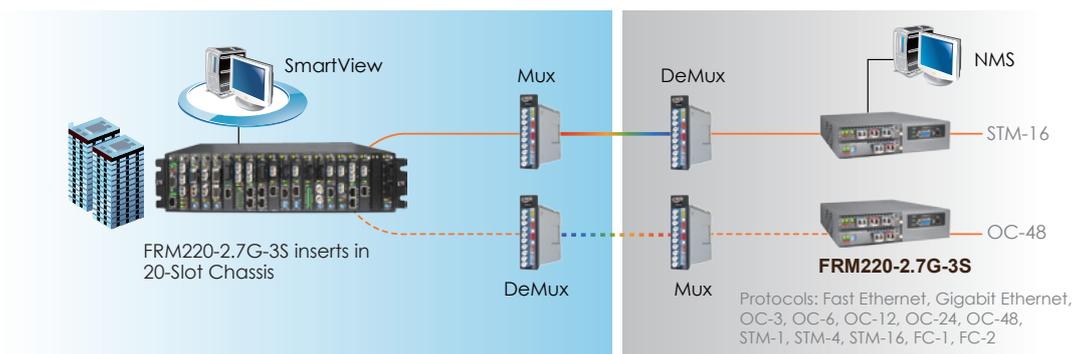
Feature

- Multi-rate supports 34.3Mbps to 2.7Gbps
- Network management via Web, Telnet, SNMP in central FRM220 chassis
- Link Fault Pass-Through (LFPT)
- Auto Laser Shutdown (ALS)
- Local configuration via DB9 craft port In Stand-alone

- Digital diagnostic monitoring of SFP module
- Perform optical repeater function (Re-amplification, Re-shaping, and Re-clocking)
- Facility loopback on both Client / Line sides
- 1+1 optic fiber protection
- Dip switch setting data rate
- Detect transceiver transmitter error alarm

Specifications

Optical Interface	Connector	SFP LC
	Protocol	OC -3, OC -6, OC -12, OC-24. OC-48, STM-1, STM-4, STM-16, FC -1, FC -2
	Regeneration	Re-amplification
		Re-shaping
		Re-clocking
	Loop back	Line/Client
	Fiber	MM 62.2/125µm, 50/125µm
		SM 9/125µm
	Wavelength	MM 850, 1310nm
		SM 1310, 1550nm
		WDM 1310T/1550R, 1550T/1310R
		CWDM 1470 ~ 1610nm

Indications	LED (PWR, Line Link, Client Link, Test, Loop back, Port Active, Alarm)
Power Input	12VDC
Power Consumption	< 12W
Dimensions	Card: 155 x 20.8 x 88mm (D x W x H)
Weight	120g
Temperature	0 ~ 50°C (Operating), -10 ~ 70°C (Storage)
Humidity	10 ~ 90% non-condensing
Certification	CE, FCC
MTBF	65,000 hrs

Application

Managed 2.7G 3R Transponder with Fiber Protection

FRM220-2.7G-3S inserts in 20-Slot Chassis

FRM220-2.7G-3S

Protocols: Fast Ethernet, Gigabit Ethernet, OC-3, OC-6, OC-12, OC-24, OC-48, STM-1, STM-4, STM-16, FC-1, FC-2

Ordering Information

Model Name	Description
FRM220-2.7G-3S	2.7G 3R Transponder with fiber protection, (optional SFP module)

Multi-Rate 2.67G SFP Module

SFM-9000-S85-DD	2.67G SX, MM, 300m, 850nm, 3.3V, LC, VCSEL (DD)
SFS-9002-L31-DD	2.67G LX, SM, 2km, 1310nm, 11dB, 3.3V, LC, FP (DD)
SFS-9015-L31-DD	2.67G LX, SM, 15km, 1310nm, 15dB, 3.3V, LC, DFB (DD)
SFS-9030-Z55-DD	2.67G ZX, SM, 30km, 1550nm, 15dB, 3.3V, LC, DFB (DD)
SFS-9050-Z55-DD	2.67G ZX, SM, 50km, 1550nm, 20dB, 3.3V, LC, DFB (DD)
SFS-9080-Z55-DD	1.25G WDM, 40km, Tx1310nm / Rx1550nm (A type), 3.3V, LC, DD
SFS-9100-Z55-DD	2.67G ZX, SM, 100km, 1550nm, 30dB, 3.3V, DFB (DD)

Note: This card may be set by DIP switch or console, but MUST be placed in CH02M chassis with fan.
For SNMP management, place this card in CH02/NMC or CH04A Chassis.

Specifications & design are subject to change without prior notice. Please visit CTC Union website for more details.

www.ctcu.com
sales@ctcu.com

CTC union

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