



2.7G 3R Transponder FRM220-2.7G-2S

The FRM220-2.7G-2S is a 2.7G 3R optical regeneration device, 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. When the FRM220-2.7G-2S 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.

Features

- Multiple protocol supported at bit rates 28Mbps to 2.7Gbps (Fast Ethernet, Gigabit Ethernet, OC-3, OC-6, OC-12, OC-24, OC-48, STM-1, STM-4 STM-16, FC-1, FC-2)
- Network management via Web, Telnet, SNMP in central FRM220-CH20 chassis
- 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
- Link Fault Pass through (LFP)
- Auto Laser Shutdown (ALS)
- Dip Switch setting data rate
- Detect fiber transmitter error Alarm

Optical Interface

Connector	SFP LC
Data rate	28M to 2.7Gbps
Duplex mode	Full duplex
Fiber	MM 50/125µm, 62.5/125µm, SM 9/125µm
Distance	MM 2km, SM 15/30/50/80/120km, WDM 20/40/60/80km
Wavelength	MM 1310nm, SM 1310,1550nm WDM 1310Tx/1550Rx (type A) 1550Tx/1310Rx (type B) CWDM 1470 ~ 1610nm

Indications

LED (PWR, Line Link, Client Link, Test, Loop back, Port Active, Alarm)

Power Input

Card : 12VDC
Standalone : AC, DC options

Power Consumption

< 5W

Dimension

155 x 88 x 23mm (D x W x H)

Weight

120g

Temperature

0 ~ 50°C (Operating), -10 ~ 70°C (Storage)

Humidity

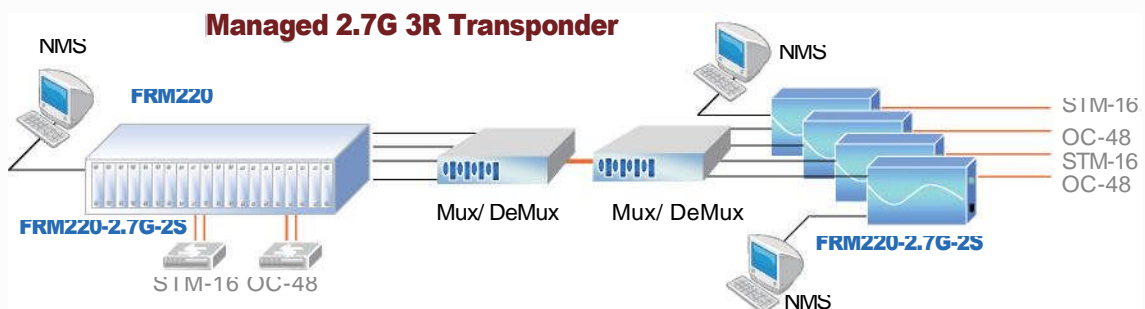
10 ~ 90% non-condensing

Certification

CE, FCC, LVD, RoHS

MTBF

65,000 hrs (25°C)



2.7G 3R Repeater



Ordering Information

FRM220-

2.7G-2S

Optional card

Example: FRM220-2.7G-2S

2.7G 3R Transponder with Fiber Protection

FRM220-2.7G-3S

The FRM220-2.7G-3S is a 3R 2.7G optical regeneration device, 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.

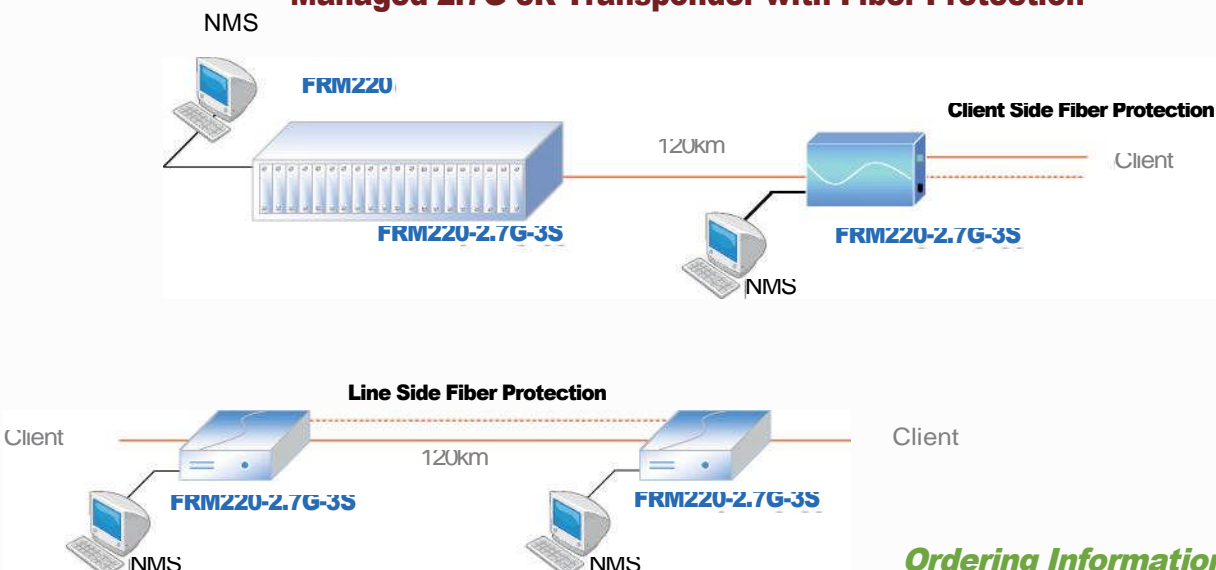
Features

- Multiple protocol supported at bit rates 28Mbps to 2.7Gbps (Fast Ethernet, Gigabit Ethernet, OC-3, OC-6, OC-12, OC-24, OC-48, STM-1, STM-4 STM-16, FC-1, FC-2)
- Network management via Web, Telnet, SNMP in central FRM220-CH20 chassis
- 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
- Link Fault Pass through (LFP)
- Auto Laser Shutdown (ALS)
- Dip Switch setting data rate
- Detect fiber transmitter error Alarm



Optical Interface	Connector SFP LC Data rate 28M to 2.7Gbps 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	Card : 12VDC , Standalone : AC,DC option
Power Consumption	< 10W
Dimensions	155 x 88 x 23mm (D x W x H)
Weight	120g
Temperature	0 ~ 50°C (Operating), -10 ~ 70°C (Storage)
Humidity	10~90% non-condensing
Certification	CE, FCC, LVD, RoHS
MTBF	65,000 hrs (25°C)

Managed 2.7G 3R Transponder with Fiber Protection



FRM220-2.7G-3S can be inserted CH02M, CH02N and CH20 chassis.

Ordering Information

FRM220- Optional card
2.7G-3S

Example: FRM220-2.7G-3S