



FRM220-1000DS

1000Base-X to 1000Base-X Media Converter

The FRM220-1000DS is a fiber to fiber optical media converter and repeater that allows data rates up to 1Gbps. FRM220-1000DS supports 2R regeneration, which consists of re-amplification and reshaping. This converter is compatible with fiber interfaces such as 100Mbps Fast Ethernet and 1000Mbps Gigabit Ethernet, STM-1, Fiber Channel 1 and OC3, The FRM220-1000DS works as an FRM220 slide-in card, while the FRM220-1000DS plus FRM220-CH01 work as a stand-alone fiber converter. When the FRM220-1000DS card is placed in the FRM220-CH20 rack with SNMP management, the management can view the converter card's status, type, fiber link status and SFP DOM.

Feature

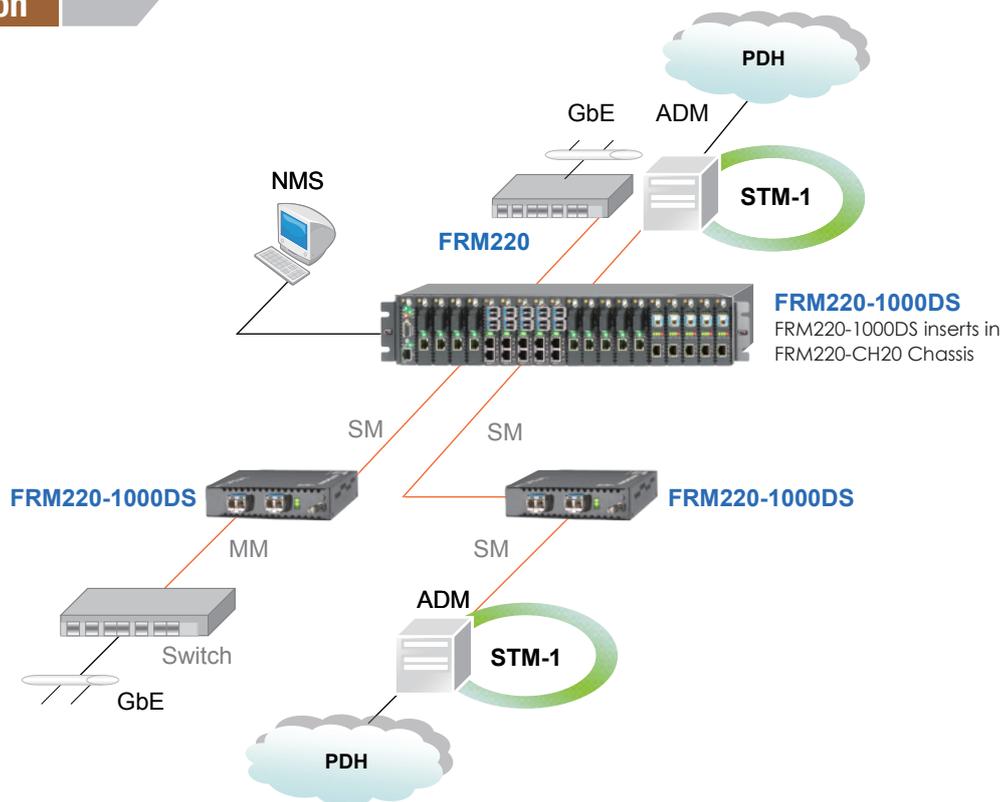
- Transparent FE or GbE fiber media converter / repeater
- Data rate up to 1G
- Network management via terminal or SNMP in FRM220 chassis
- Extend transmission from 2km to 120km over fiber
- Perform optical repeater function (Re-amplification & Reshaping)
- Digital diagnostic monitoring of SFP modules

Specifications

Optical Interface	Connector	SFP LC x 2
	Data rate	Up to 1G
	Duplex mode	Full duplex
	Fiber	MM 50/125µm, 62.5/125µm. SM 9/125µm
	Distance	MM 550m, 2km, SM 15/30/50/80/120km WDM 20/40/60km
	Wavelength	MM 1310nm, SM 1310,1550nm WDM 1310Tx/1550Rx (type A) 1550Tx/1310Rx (type B)
Indications	LED (Power, FX-Link1, FX-Link2)	
Power Input	12VDC	

Power Consumption	< 6W
Dimensions	Card: 155 x 20.8 x 88 mm (D x W x H)
Weight	130g
Temperature	0 ~ 50°C (Operating), -10 ~ 70°C (Storage)
Humidity	10 ~ 90% non-condensing
Certification	CE, FCC
MTBF	65,000 hrs

Application



Ordering Information

Model Name	Description
FRM220-1000DS	1000Base-X SFP to 1000Base-X SFP Media Converter (Optional SFP)

Accessories**Multi-Mode 1.25Gbps SFP**

SFM-7000-S85	1.25G SX, MM, 550m, 850nm, 8.5dB, 3.3V, LC
SFM-7000-S85-DD	1.25G SX, MM, 550m, 850nm, 8.5dB, 3.3V, LC, DD
SFM-7000-L31	1.25G LX, MM, 2km, 1310nm, 10dB, 3.3V, LC
SFM-7000-L31-DD	1.25G LX, MM, 2km, 1310nm, 10dB, 3.3V, LC, DD

Single-Mode 1.25Gbps SFP

SFS-7020-L31	1.25G LX, SM, 20km, 1310nm, 15dB, 3.3V, LC
SFS-7020-L31-DD	1.25G LX, SM, 20km, 1310nm, 15dB, 3.3V, LC, DD
SFS-7040-L31	1.25G LX, SM, 40km, 1310nm, 20dB, 3.3V, LC, DFB LD
SFS-7040-L31-DD	1.25G LX, SM, 40km, 1310nm, 20dB, 3.3V, LC, DFB LD, DD

Single Fiber 1.25Gbps SFP

SFS-7020-WA	1.25G WDM, 20km, Tx1310nm / Rx1550nm (A type), 3.3V, LC
SFS-7020-WA-DD	1.25G WDM, 20km, Tx1310nm / Rx1550nm (A type), 3.3V, LC, DD
SFS-7020-WB	1.25G WDM, 20km, Tx1550nm / Rx1310nm (B type), 3.3V, LC
SFS-7020-WB-DD	1.25G WDM, 20km, Tx1550nm / Rx1310nm (B type), 3.3V, LC, DD
SFS-7040-WA	1.25G WDM, 40km, Tx1310nm / Rx1550nm (A type), 3.3V, LC
SFS-7040-WA-DD	1.25G WDM, 40km, Tx1310nm / Rx1550nm (A type), 3.3V, LC, DD
SFS-7040-WB	1.25G WDM, 40km, Tx1550nm / Rx1310nm (B type), 3.3V, LC
SFS-7040-WB-DD	1.25G WDM, 40km, Tx1550nm / Rx1310nm (B type), 3.3V, LC, DD