



# FRM220-1000DS

## 1G 2R Multi-rate Transponder

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.

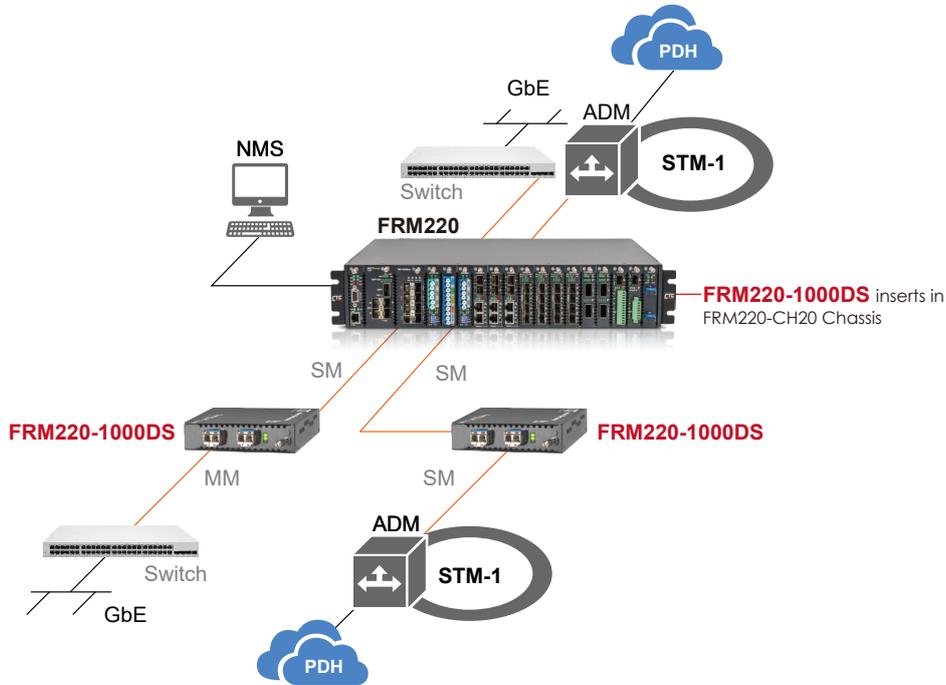
### Features

- Transparent FE or GbE fiber media converter / repeater
- Data rate up to 1G
- Device 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
- Supports Link Fault Pass-Through LFTP function
- Supports Auto Laser Shutdown (ALS) function

### Specifications

<b>Optical Interface</b>	Connector	SFP LC × 2	<b>Indications</b>	LED (Power, FX-Link1, FX-Link2)							
	Data rate	Up to 1G		<b>Power Input</b>	12VDC						
	Duplex mode	Full duplex			<b>Power Consumption</b>	< 6W					
	Fiber	MM 50/125μm, 62.5/125μm. SM 9/125μm				<b>Dimensions</b>	159.5 × 20.8 × 88mm (D×W×H)				
	Distance	MM 550m, 2km, SM 15/30/50/80/120km					<b>Weight</b>	130g			
	Wavelength	WDM 20/40/60km						<b>Temperature</b>	0 ~ 50°C (Operating), -10 ~ 70°C (Storage)		
		MM 1310nm, SM 1310,1550nm							<b>Humidity</b>	10 ~ 90% non-condensing	
	WDM 1310Tx/1550Rx (type A)	<b>Certification</b>								CE, FCC	
	1550Tx/1310Rx (type B)									<b>MTBF</b>	65,000 hrs

### Application



### Ordering Information

Model Name	Description
FRM220-1000DS	1000Base-X SFP to 1000Base-X SFP media converter card (Optional SFP)