

FRM220-FXO/FXS

1ch POTS over Fiber Media Converter

FRM220-FXO/FXS is a POTS (Plain Old Telephone System) over fiber converter/extender. The POTS connection uses a standard RJ-11C modular connector for one copper pair connection. A pair of FRM220-FXO/FXS is required to implement an end to end system. FXO mode connects to a telephone line (PSTN) or PBX station line and has ability to detect ringing voltages and to act as a telephone. FXS mode is the reciprocal unit and has ability to act as PSTN and connects to a telephone device. When the FRM220-FXO/FXS card is placed in the FRM220 rack with SNMP management, in-band management allows configuring and viewing the card and remote converter's status, type, version, fiber link status, on hook status and alarms. Both card and remote can be configured to enable or disable the port, reset the port and set the FXO or FXS mode. When configured in an FXS to FXS fashion, a private "hot line" or direct line is created. When placed in a single slot chassis and used standalone without management, the card may be configured by DIP switch.

Features

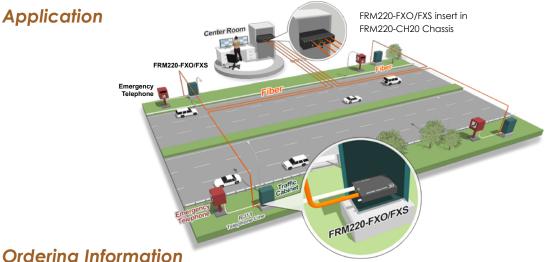
- Extend telephone voice transmission up to 120km over fiber
- Network management via terminal, web or SNMP in FRM220
- Supports caller ID Pass-Through
- Selectable FXO or FXS mode
- Supports FXS to FXS hot line

Specifications

Optical	Connector	1x9 (SC)
Interface	Fiber	MM 62.2/125μm, 50/125μm, SM 9/125μm
		Rate: 155Mbps
	Distance	MM 2km, SM 15/30/50km, WDM 20/40km
	Wavelength	MM 1310nm, SM 1310, 1550nm
		WDM 1310Tx/1550Rx (type A)
		1550Tx/1310Rx (type B)
Indications	LED (Power, F	X Link, Phone Act, Test)
Power Input	12VDC	
Power Consumption	< 6W	
Dimensions	155 x 88 x 23	mm (D x W x H)
Weight	120g	
Temperature	0 ~ 50°C (Op-	erating), -10 ~ 70°C (Storage)
Humidity	10 ~ 90% nor	n-condensing
Certification	CE, FCC, RoH	S compliant
MTBF	65,000 hrs	

Electrical	Connector	RJ-11
Interface	FXO modle	Impedance : 600 ohms
		Coding: 16 bits liner
		Loop Current: 10~100mA
		Ring Frequency: Acceptable 20 ~50Hz
		Insertion Loss: 0.0 ± 1.0dB at 1000Hz
		Impedance : 600 ohms
	FXS modle	Coding : 16 bits liner
		Dial: DTMF and Dial Pulse
		Battery Source: 48VDC ± 4V
		Ringing Waveform : Sine wave
		Ringing Frequency : 20/25/30/35/40/45/5 Hz selectable
		Ring Cadence: FXS to FXS: On / 1 sec, Off / 2 sec
		FXO to FXS; Reproduces the cadence detected by FXO
	Insertion Loss 0.0 ± 1.0 dB at 1000H	Insertion Loss 0.0 ± 1.0dB at 1000Hz
		REN: 4.0B(Ring Equivalence Number)





20A: WDM 20km A type 20B: WDM 20km B type 40A: WDM 40km A type 40B: WDM 40km B type

Model Name	Description		
FRM220-FXO/FXS	FXO / FXS fiber converter		
Connector Type	Connectivity Distance		
SC, ST, FC	002: 2km 015: 15km 030: 30km 050: 50km		

Note: This card may be set by DIP switch and placed in CH01 standard chassis,

When connected as a remote to a managed central chassis, this card supports in-band management.