FXO/FXS 2-wire Fiber Converter
FRM220-FXO/FXS
FRM220-FXO/FXS-S

FRM220-FXO/FXS POTS phone line converter extender is used to connect PSTN voice signals to distant Plain Old Telephone (POTS) devices. FRM220-FXO/FXS provides a fiber media transport for POTS transmission and features an RJ-11C for copper connection. A pair of FRM220-FXO/FXS is required to implement an end to end system. FXO mode connects to a telephone line or PBX 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 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.
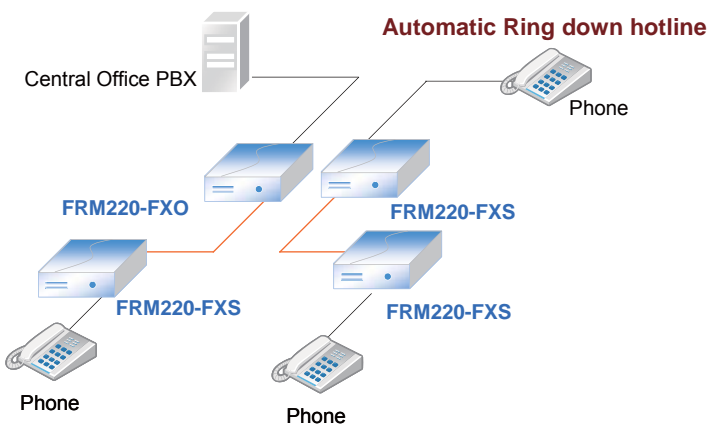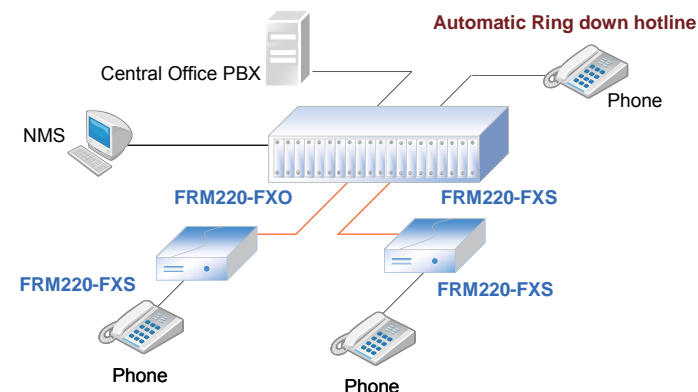
Features

- Extend telephone voice transmission from 2km to 120km over fiber
- Network management via terminal, web or SNMP in FRM220-CH20 chassis
- Supports telephone voice transmission
- Supports caller ID pass through
- Selectable FXO or FXS mode
- Supports FXS to FXS hot line

In-band Managed FXO/FXS Fiber Loop Extender

FRM220-FXO/FXS can be inserted in any FRM220 chassis.

Optical Interface		
	Connector	1x9 (SC) or SFP LC
	Fiber	MM 62.2/125µm, 50/125µm. 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)
Electrical Interface		
	Connector	RJ-11
	FXO mode	Impedance : 600 ohms
		Coding : 16 bits liner
		Loop Current : 10~100mA
		Ring Frequency : Acceptable 20 ~50Hz
		Insertion Loss: 0.0 ± 1.0dB at 1000Hz
	FXS mode	Impedance : 600 ohms
		Coding : 16 bits liner
		Dial: DTMF and Dial Pulse
		Battery Source: 48VDC ± 4V
		Ringing Waveform : Sine wave
		Ringing Frequency : 20/25/30/50 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 ± 1.0dB at 1000Hz
		REN: 4.0B(Ring Equivalence Number)
Indications		LED (Power, FX Link, Phone Act, Test)
Power Input	Card	: 12VDC
	Standalone : AC, DC options	
Power Consumption		< 5W
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)

Ordering Information

FRM220-☐☐☐☐☐ Optional card

FXO/FXS
FXO/FXS-S
Example: FRM220-FXO/FXS