

2 Wire POTS Fiber Link Card System

The 2 Wire POTS (Plain Old Telephone Service) system provides transmission of standard analog POTS, telemetry, or PBX loop start signals over two optical fibers. The system transmits signals in the voice-frequency or audio range (300Hz-3.4KHz) while providing ringing and off-hook detection. Common applications include telephone, faxes, and dial-up modems.

The card is compatible with any RLH Fiber Link card housing or shelf, is temperature hardened for tough environmental conditions, and is covered by our **Limited Lifetime Warranty**.

Note: Special options are available for forward disconnect (SM07) and square wave ringing option (SM10).



2 Wire POTS Fiber Link Cards

Key Features

Environment

Hardened to operate in -40°F to +158°F (-40°C to +70°C)

Power

FXO/CO cards are simplex powered

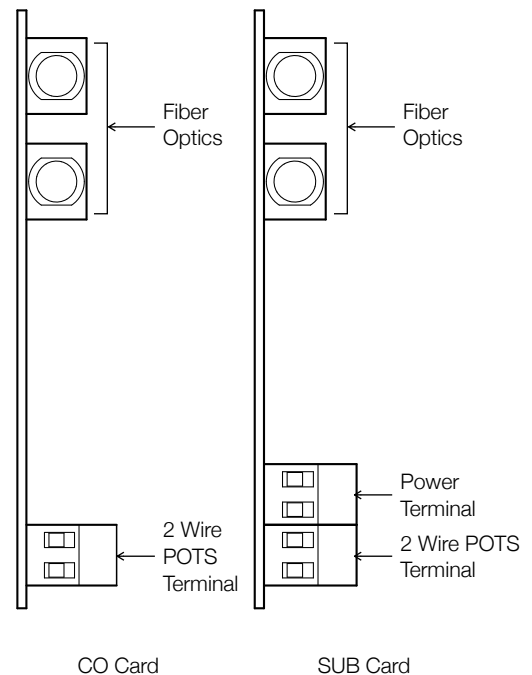
Application

Available with ST or SC connectors for single or multi-mode fiber
Provides ringing and off-hook detection
Critical, high voltage, remote or un-manned locations operating 24/7/365

Quality

Made in the USA

Covered by our **Limited Lifetime Warranty**



Front Panel Features

Ordering Information

Optics	Distance	Fiber	Description	Part Number	CLEI
Multimode ST	1.5 mi / 2.4km	62.5µm	CO Card	8806-1234-03	VAUIASD9AA
			SUB Card	8806-1244-05	LFT1AAPEAA
Single-mode ST	9 mi / 15km	8~9µm	CO Card	8806-1261-01	NPIFCB01AA
			SUB Card	8806-1271-03	NPIFDB01AA
Single-mode SC	9 mi / 15km	8~9µm	CO Card	8805-1261-01	NPIFKD01AA
			SUB Card	8805-1271-03	NPIFLD01AA
Long Haul Single-mode ST	37 mi / 60km	8~9µm	CO Card	8806-1261-01-LH	-
			SUB Card	8806-1271-03-LH	-
Long Haul Single-mode SC	37 mi / 60km	8~9µm	CO Card	8805-1261-01-LH	-
			SUB Card	8805-1271-03-LH	-

- ▶ A complete system requires a CO side card and a SUB side card.
- ▶ Add **-RJ** to part number for installed RJ11 adapter.
- ▶ Add **-SM07** to part number for forward disconnect option.
- ▶ Add **-SM10** to part number for square wave ringing option.

General Specifications

Transmission method	Frequency modulated light via two optical fibers	Multimode Single-mode: SM Long Haul:	850nm (Tx level: -16dB ± 1dB) 1310nm (Tx level: -23dB ± 1dB) 1310nm (Tx level: -8dB ± 2dB)
Maximum Fiber Loss / Distance*	Multimode: Single-mode: SM Long Haul:	10dB / 1.5 miles (2.4km) 8dB / 9 miles (15km) 26dB* / 37 mi. (60 km), *min. required loss -8dB	Note: Distances equated using industry standard fiber and connector attenuation of 3dB/Km. Fiber condition, splices and connectors may affect actual range.
Fiber Type	Multimode: Single-mode:	62.5/125µm 8-9/125µm	
Fiber Connector Types	ST or SC		
Wire Connector	Screw clamp, 12-26 AWG		
Bandwidth	300 Hz to 3.4 KHz		
Dialing Protocol	Pulse or tone dialing		
Ringling	Sine wave matched to input frequency, REN 5.0 Square wave ringing option available - SM10		
Drop Voltage / Current	Source voltage selectable between 48V and 14V (power saving) 22± 1mA		
Insertion Loss	0dB +/- 0.5dB each direction		
Surge Protection	PTC thermistors, zener diodes and varistors		
Power Requirements	CO Card: Sub Card:	18-56VDC, On-hook 0.5mA maximum, off-hook 18mA minimum (card will sink up to 30mA line seizure). 24-56VDC, 200mA maximum	
Powering Method	CO Card: Sub Card:	Line Power (DC Simplex or Talk Battery) Local Power Supply	
Operating Temperature	-40° to +158° F (-40° to +70° C), 95% non-condensing		
Dimensions	Standard RLH Fiber Link Card Form Factor (7"x4"x1")		
Warranty	Limited Lifetime	Visit www.fiberopticlink.com for warranty details	