

The leader in rugged fiber optic technology.

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2 Channel POTS Fiber Link Card System

The 2 Channel POTS (Plain Old Telephone Service) Fiber Link Cards are fully featured and hardened for substation and critical applications. These cards operate over a wide temperature range and have been designed to provide reliability in harsh environments.

Common applications include extending analog lines over fiber for the benefit of electrical isolation, to achieve long distances, or through noisy environments to reduce EMI. These cards are fully compatible with all traditional POTS services, dial-up modems, meters, & fax machines. Fiber Link Cards are designed and Made in the USA, and are covered by our limited lifetime warranty.



2 Channel POTS Fiber Link Card

Key Features

Environment

Operating temperature range is -40°F to +158°F (-40°C to +70°C)

Critical, high voltage, remote or un-manned locations operating 24/7/365

Power

Uses 24~48VDC local power

Application

Available with ST or SC connectors for single or multi-mode fiber Single or dual fiber models available

Supports Caller ID

Supports Call-Forward Disconnect

Ringdown Function (FXS to FXS Hotline Phone)

Convenient LED status indicators

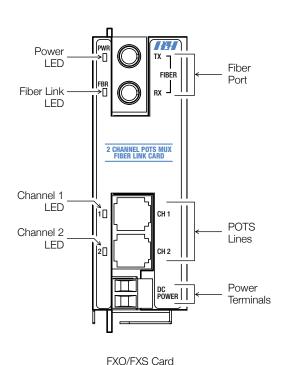
Extend telephone up to 120km over fiber

Compatibility

Extend Plain Old Telephone Systems (POTS) Extend service provider 2 wire analog lines Dial-up modems, meters, and fax machines

Quality

Made in the USA covered by our Limited Lifetime Warranty



Front Panel Features

RLH Industries, Inc. • Tel. 866-DO-FIBER • Fax 714 532-1885 • www.fiberopticlink.com

General Specifications

Transmission method	Frequency modulated light via optical fiber							
	Multimode		1310nm					
	Single-mod	Single-mode		1310nm/1550nm				
Maximum Fiber Attenuation / Distance*	Dual Fiber		Multimod	de (50/125µm, 62.5/125µm):	1.25mi./2 km range			
				ode (9/125µm):	12.4 mi./20km range			
					37 mi./60km range			
					74 mi./120km range			
	Single Fiber, Bi-directional		Single-mode (9/125μm):		12.4 mi./20km range			
					37 mi./60km range			
	*Note: Distances equated using industry standard fiber and connector attenuation. Fiber condition, splices and connectors may affect actual range.							
Fiber Type	(ST or SC connectors) Multimode: 50/125µm, 62.5/125µm, Single-mode: 8-9/125µm							
Phone Connectors	(2) RJ-11 Female							
Audio Bandwidth	300Hz to 34	300Hz to 3400Hz						
Analog Phone (POTS)	FXO Card	Impedar	nce	600 ohms				
Interface		Ring Fre		ncy Acceptable 20 ~50Hz				
	FXS Card	Impedance		600 ohms				
		Dial		DTMF and Pulse				
		Battery Source		48VDC ± 4V				
		Ring Voltage		80Vrms at 20Hz (Depending on the ringing load)				
		REN		REN 3.0 (Ring Equivalence Number) *REN value is per channel.				
Ringing Waveform	Sine wave							
Ring Cadence	FXS to FXS	XS to FXS On \longrightarrow 2 sec, Off \longrightarrow 4 sec						
	FXO to FXS	Reprodu	ices the ca	adence detected by FXO				
Return Loss	40dB							
Supports	Caller ID & C	Caller ID & Call Forward Disconnect						
Power Requirements	24~48VDC N	24~48VDC Nominal						
Max Power Consumption	≤10W	≤10W						
Dimensions/Mounting	L 7in. x H 4in. x W 1in. (177.8mm x 101.6mm x 25.4mm)							
	Compatible with RLH Fiber Link card housings							
Operating Temperature	-40°F to +158°F (-40°C to +70°C)							
Humidity	95% non-condensing							
Warranty	Limited Lifetime Visit www.fiberopticlink.com for warranty details							

Ordering Information

Each 2 Channel POTS Card is identified with the part number.

Fiber / Connector	Description	Side	Distance	Fiber	Part Number
Multimode ST	FXO Card	-	2.4km / 1.5 mi.	62.5/50µm	2PC-FXO-04-2
	FXS Card	-	2.4km / 1.5 mi.	62.5/50µm	2PC-FXS-04-2
Bi-Directional Single-mode SC	FXO Card	Α	20km / 12.4 mi.	8~9µm	2PC-FXO-10-2
	FXS Card	В	20km / 12.4 mi.	8~9µm	2PC-FXS-11-2
	FXO Card	Α	60km / 37 mi.	8~9µm	2PC-FXO-14-2
	FXS Card	В	60km / 37 mi.	8~9µm	2PC-FXS-15-2
Single-mode SC	FXO Card	-	20km / 12.4 mi.	8~9µm	2PC-FXO-40-2
	FXS Card	-	20km / 12.4 mi.	8~9µm	2PC-FXS-40-2
	FXO Card	-	60km / 37 mi.	8~9µm	2PC-FXO-41-2
	FXS Card	-	60km / 37 mi.	8~9µm	2PC-FXS-41-2
	FXO Card	-	120km / 74 mi.	8~9µm	2PC-FXO-42-2
	FXS Card	-	120 km / 74 mi.	8~9µm	2PC-FXS-42-2
Single-mode ST	FXO Card	-	20km / 12.4 mi.	8~9µm	2PC-FXO-50-2
	FXS Card	-	20km / 12.4 mi.	8~9µm	2PC-FXS-50-2
	FXO Card	-	60km / 37 mi.	8~9µm	2PC-FXO-51-2
	FXS Card	-	60km / 37 mi.	8~9µm	2PC-FXS-51-2
	FXO Card	-	120km / 74 mi.	8~9µm	2PC-FXO-52-2
	FXS Card	-	120 km / 74 mi.	8~9µm	2PC-FXS-52-2

- ► A complete system requires 2 cards.
 - One (1) FXO paired with one (1) FXS card for a typical phone line extension, or
 - Two (2) **FXS** cards paired for a ringdown hotline.
- ▶ Bi-directional single fiber models require an **A** Side and **B** Side unit for a complete system.
- Please contact your RLH sales representative for pricing and delivery information.

Technical Support

Email:	support@fiberopticlink.com
24/7 technical support:	Toll Free 1-855-RLH-24X7
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Specifications subject to change without notice.