

The leader in rugged fiber optic technology.

DS-104 2017A-0420

2 Channel POTS DIN Fiber Link System

The RLH 2 Channel Plain Old Telephone Service (POTS) DIN Fiber Link system transports two analog phone lines over fiber optic cable. The system will operate over a wide temperature range and has 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. The system is compatible with all traditional analog phone services, dial-up modems, meters, and fax machines.

A comprehensive set of LED's on the front panel indicate the status of the power, fiber, and phone lines. The standard system powering requirement is 24-48VDC, with an optional 125VDC available. This rugged system also features dual redundant power inputs with a system alarm contact relay, and comes standard with DIN clip and wall mount ears. RLH Fiber Link systems are designed and Made in the USA, and are covered by our Limited Lifetime warranty.



2 Channel POTS DIN Fiber Link System

Key Features

Environment

Hardened to operate in -40°C to +70°C environment

Power

Redundant power capable, 24-56VDC or 125VDC depending on model

Application

Available with ST or SC connectors for single-mode or multimode fiber Supports Caller ID

Supports Call-Forward Disconnect (Hook Flash)

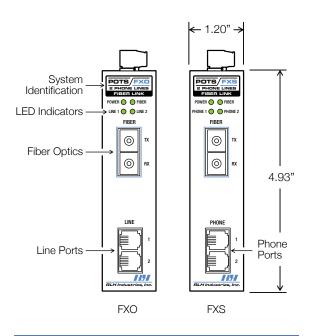
Ringdown Function (FXS to FXS Hotline Phone)

Compatibility

Standard 2 wire analog phone lines, dial-up modems, and fax machines

Quality

Made in the USA and covered by our Limited Lifetime Warranty



Feature & Dimensional Information

General Specifications

Fiber Connector Options	ST or SC							
Wavelength	Multimode	1310nm						
	Single-mode	1310nm/1550nm						
Maximum Fiber	Dual Fiber		 25µm & 62.5/125µm):	1.25mi./2 km range				
Attenuation / Distance*	Dual Fiber	Single-mode (9/		12.4 mi./20km range				
		Single-mode (9/120μm).		37 mi./60km range				
				74 mi./120km range				
	Single Fiber,	Single-mode (9/	125um):	12.4 mi./20km range				
	Bi-directional	Origie mode (9/	ι Σομιτή.	37 mi./60km range				
		quated using industry star						
Phone Connectors	(2) RJ-11 Female		rs may affect actual range.					
Audio Bandwidth	300Hz to 3400H							
Analog Phone (POTS)	FXO Device	Impedance	600 ohms					
Interface	1710 201100	Ring Frequency	Acceptable 20 ~50Hz	7				
	FXS Device	Impedance	600 ohms	_				
		Dial	DTMF and Pulse					
		Battery Source	48VDC ± 4V					
		Ring Voltage		pending on the ringing load)				
		REN	80Vrms at 20Hz (Depending on the ringing load) REN 3.0 (Ring Equivalence Number)					
		· · ·	*REN value is per cha					
Ringing Waveform	Sine wave							
Ring Cadence	FXS to FXS	FXS to FXS On \longrightarrow 2 sec, Off \longrightarrow 4 sec						
	FXO to FXS	Reproduces the cadence detected by FXO						
Return Loss	40dB							
Supports	Caller ID & Call F	Caller ID & Call Forward Disconnect						
LED Indicators	Power, Fiber, Ph	Power, Fiber, Phone or Line 1~2 (See <i>User Guide</i> section for more details)						
Power Input	24~48VDC or 125VDC nominal (Depending on model)							
	Dual redundant power inputs							
Power Consumption	FXO Device 2.5 Watts							
	FXS Device	5 Watts						
System Alarm Output	Normally Open / Closed Relay							
DC Input Isolation (In/Out)	1.5KV	1.5KV						
Voltage Reversal Protection	Will operate with	Will operate with V+ or V- in either power terminal						
Over Current Protection	1.0A (Automatic	1.0A (Automatic Recovery)						
Temperature	Storage	-40°C to +8	5°C (-40°F to +185°F)					
	Operating	Operating -40°C to +70°C						
Dimensions	H 4.93" x W 1.20" x D 3.93" (not including DIN clip)							
Mounting	Includes standar	Includes standard T-35 DIN rail clip and wall mount ears						
	95% non-condensing							
Humidty	95% non-conde	nsing						

Ordering Information

Each 2 Channel POTS Fiber Link device is identified with a part number.

Optics	Distance	Fiber	Side	Туре	Part Number
Multimode SC	2.4km / 1.5 mi.	62.5/50µm		FXO	PD-2FXO-03-1
	2.4KIII / 1.3 IIII.			FXS	PD-2FXS-03-1
Multimode ST	2.4km / 1.5 mi.	62.5/50µm		FXO	PD-2FXO-04-1
				FXS	PD-2FXS-04-1
Single-mode SC (Single Fiber)	20km / 12.4 mi.	8~9µm -	А	FXO	PD-2FXO-10-1
			В	FXS	PD-2FXS-11-1
	60km / 37 mi.	8~9µm -	А	FXO	PD-2FXO-14-1
	OUKIII / 3/ IIII.		В	FXS	PD-2FXS-15-1
	20km / 12.4 mi.	8~9µm		FXO	PD-2FXO-40-1
- Single-mode	20KIII / 12.4 IIII.			FXS	PD-2FXS-40-1
	COL (m. / 0.7 m.)	8∼9µm		FXO	PD-2FXO-41-1
SC	60km / 37 mi.			FXS	PD-2FXS-41-1
_	120km / 74 mi.	8∼9µm		FXO	PD-2FXO-45-1
				FXS	PD-2FXS-45-1
– Single-mode ST –	20km / 12.4 mi.	8∼9µm		FXO	PD-2FXO-50-1
				FXS	PD-2FXS-50-1
	60km / 37 mi.	8~9µm		FXO	PD-2FXO-51-1
	OUKIII / 37 INI.			FXS	PD-2FXS-51-1
	120km / 74 mi.	8~9µm		FXO	PD-2FXO-55-1
				FXS	PD-2FXS-55-1

- ▶ A complete system requires 2 devices of either configuration:
 - One (1) FXO device paired with one (1) FXS device for a typical phone line extension, or
 - Two (2) **FXS** devices paired for a ringdown hotline.
- ▶ Bi-directional single fiber models require an **A** Side and **B** Side unit for a complete system.
- Add -A to the end of the part number for 125VDC input power option.
- Please contact your RLH sales representative for pricing and delivery information.



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Specifications subject to change without notice.