

DATA SHEET

2 Wire POTS Enhanced

Extend Analog Phone Lines Over Fiber W/ Caller ID – Line Powered

The 2 wire POTS (Plain Old Telephone Service) Enhanced Fiber Link Card 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-3400Hz) while providing ringing and off-hook detection, and supports caller ID and forward disconnect. Common applications include telephone, faxes, and dial-up modems.

The 2 Wire POTS Enhanced system is complete with convenient status LED indicators, DIP switches, and are compatible with any RLH Fiber Link card housing or shelf. All RLH Fiber Link Cards are temperature hardened for tough environmental conditions, and covered by our Limited Lifetime Warranty.

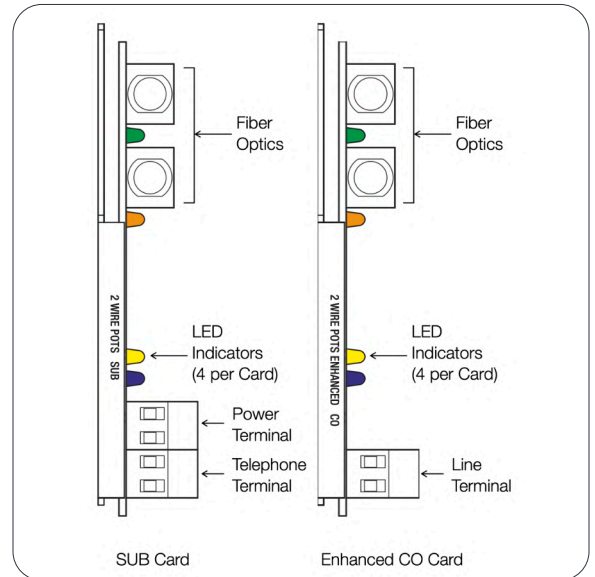
Note: Square wave ringing ordering option is available (SM10).

Key Features

- Ideal for critical, high voltage, remote or un-manned locations that must remain operating 24/7/365
- Enhanced FXO/CO cards are loop powered
- Available in Singlemode and Multimode, ST or SC Connectors
- Provides ringing and off-hook detection
- Supports Caller ID and Forward Disconnect
- Convenient sub card LED status indicators
- Standard RLH form factor compatible with wide variety of housings
- Environmentally hardened to operate in -40°F to +158°F (-40°C to +70°C) environments



CO and SUB Card System



Dimensions

DATA SHEET

Key Specifications

Transmission Method:	Multimode: 850nm (Tx Level: -27dBm +/- 2dBm) Singlemode: 1310nm (Tx Level: -11dBm +/- 1dBm) *Frequency modulated light via two optical fibers
Maximum Fiber Loss / Distance:	Multimode: 10dB / 1.5 miles (2.4km) Singlemode: 16dB / 20 miles (32km) *Distances equated using industry standard fiber losses and connector attenuation of 3dB. *Fiber condition, splices and connectors will affect actual range.
Fiber Type:	Multimode: 62.5/125µm, 50/125µm Singlemode: 8~9/125µm
Fiber Connector Types:	ST or SC
Wire Connector:	Screw clamp, 12-26 AWG
Insertion Loss:	0dB +/- 0.5dB each direction at 1000 Hz
Bandwidth:	300 Hz to 3400 Hz (± 3dB with respect to 1000 Hz)
Dialing Protocol:	Pulse or tone dialing
Ringling:	Sine wave matched to input frequency, REN 5.0 Square wave ringling option available - SM10
Powering Method:	CO Enhanced Card: Loop Power Sub Card: Local Power Supply Only
Powering Requirements:	CO Enhanced Card: 10~56VDC, On-hook 0.5mA maximum, off-hook 15mA minimum at 10V minimum (card will sink up to 27mA line seizure) Sub Card: 24~56VDC, 200mA maximum
Surge Protection:	Fuses (CO only), PTC thermistors, zener diodes and varistors
Operating Temperature:	-40° to +158° F (-40° to +70° C), 95% non-condensing
Dimensions:	Standard RLH Fiber Link Card Form Factor (7"x4"x1")

DATA SHEET

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Ordering Information

Card Type	Mode	Connector	Distance	Fibers	Part Number
Enhanced CO/FXO Card	Multimode	ST	2.4km/1.5 miles	Dual Fiber	8806-1234-05
SUB/FXS Card	Multimode	ST	2.4km/1.5 miles	Dual Fiber	8806-1244-05
Enhanced CO/FXO Card	Singlemode	ST	32km/20 miles	Dual Fiber	8806-1261-05-LH
SUB/FXS Card	Singlemode	ST	32km/20 miles	Dual Fiber	8806-1271-03-LH
Enhanced CO/FXO Card	Singlemode	SC	32km/20 miles	Dual Fiber	8805-1261-05-LH
SUB/FXS Card	Singlemode	SC	32km/20 miles	Dual Fiber	8805-1271-03-LH

- For the square wave ringing option, please note your part number, add -SM10 to the end
- A complete system requires a FXO/CO card and a FXS/Sub Card
- CO cards are Line Powered, SUB cards are 24~56VDC local powered
- Add -RJ to part number for installed RJ11 adapter

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