

The leader in rugged fiber optic technology.

DS-024 2017A-0329

4 Wire 9.6k DDS Fiber Link Card System

RLH Fiber Optic Link 9.6 kbps Cards are designed to process incoming bipolar signals (3.2V P-P Max) with a digital data signal rates from 2.4 to 9.6kpbs. It also supports analog data with a bandwidth of 50 kHz to 500 Hz at a maximum of 9.6 kbps.

Electrical signals received from the copper pairs are converted into optical signals and transmitted in both directions through fiber optic cable. The optical signals are converted back to electrical signals and transmitted to the copper pairs at the other end. This hardened, rugged system is covered by our **Limited Lifetime Warranty**.



4 Wire 9.6k DDS Fiber Link Card

Key Features

Environment

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

Power

Dual power capable, line or local 24/48VDC

Application

Available with ST or SC connectors for single or multi-mode fiber 4 Wire 9.6 kbps DDS 2.4 kbps to 9.6 kbps data rate

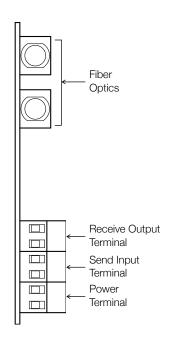
500 Hz to 50 kHz bandwidth

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

Quality

Made in the USA

Covered by our Limited Lifetime Warranty



CO/Sub Card

Front Panel Features



Ordering Information

Optics	Distance	Fiber	Description	Part Number	CLEI
Multimode ST	2km/ 1.2 mi	62.5µm	CO Card	8806-1313-01	-
			SUB Card	8806-1323-01	-
M. Illiana da OO	2km/ 1.2 mi	62.5µm	CO Card	8805-1313-01	-
Multimode SC			SUB Card	8805-1323-01	-
O'a ala sasala OT	15km/ 9 mi	8∼9µm	CO Card	8806-1343-01	-
Single-mode ST			SUB Card	8806-1353-01	-
0: 1 00	dElizz / O. co	8~9µm	CO Card	8805-1343-01	NPIFMD01AA
Single-mode SC	15km/ 9 mi		SUB Card	8805-1353-01	NPIFND01AA
Long Haul	501/04	8~9µm	CO Card	8806-1343-01-LH	-
Single-mode ST	50 km/ 31 mi		SUB Card	8806-1353-01-LH	-
Long Haul	Long Haul 50 km/ 31 mi Single-mode SC	8∼9µm	CO Card	8805-1343-01-LH	-
Single-mode SC			SUB Card	8805-1353-01-LH	-

- ▶ 62.5µm multimode fiber compatibility is standard, add **-50** to part number for 50µm fiber compatibility
- ▶ Add -RJ to part number for installed RJ48S adapter
- Add -S to part number for simplex current output option on Sub card only.

General Specifications

Transmission method	Multimode:	820nm		
Frequency modulated light via two	Single-mode:	1310nm		
optical fiber	Short Haul:	650nm		
Maximum Fiber Loss /	Multimode:	8dB / 1.2 miles (2km)		
Distance*	Single-mode:	8dB / 9 miles (15km)		
	SM Long Haul:	26dB / 31 miles (50km); minimum 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: 62.5/125μm, 50/125μm ; Single-mode: 9/125μm			
Fiber Type Connectors	ST or SC			
PCB Dimensions	CO and Sub Cards: 7.0"x4.0" (180x100 mm)			
Insertion Loss	0dB +/- 1dB in each direction			
Bandwidth	500 Hz to 50 kHz			
Signal to Noise	>45 dB for line attenuation up to 30 dB at 4.8 kHz			
Digital Data Type	Bipolar digital data stream with no DC reference			
Maximum Data Rate	9600 bps (9.6Kbps) (analog)			
BER	<10-9			
Input Level	3.2 V P-P Maximum			
Transmit Level	Equal to input level (3.2 V P-P Max.)			
Surge Protection	PTC thermistors, varistors, zener diodes, bridge rectifiers, metal oxide Resistors, gas tube			
Power Requirements	CO Card: 24-54 VDC, 18mA			
	Sub Card: 24-54 VDC, 18mA (up to 45mA if card simplexes power to Subscriber equipment)			
Powering Method	CO Card: 24-54 VDC, 18mA sealing current on Telco pairs, or local power source (24-54V DC)			
	Sub Card: 24-54 VDC, 18mA local DC power source			
Simplex Current Output Option	18mA@24VDC on XMIT pairs, Sub side only			
Operating Temperature	-40° to +160° F (-40° to +70° C)			
Humidity	95% non-condensing			
Dimensions	Standard RLH Fiber Link Card, 7"x4"x1"			
Warranty	Limited Lifetime Visit www.fiberopticlink.com for warranty details			