

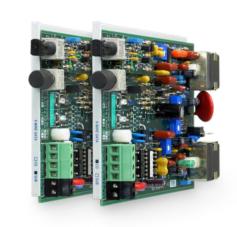
The leader in rugged fiber optic technology.

DS-026 2020-03-17

4 Wire Data Fiber Link Card System

The 4 Wire Data Fiber Link Card system provides a transmission of 4 wire data over two optical fibers. The 2 wire data is half duplex, and 4 wire data is full duplex. It supports full duplex constant transmission up to 9600bps (9.6Kbps) in voice-frequency or audiotone range (300Hz-3.4KHz). It also supports DDS data rates of 2.4Kbps and 4.8Kbps. LED indicators show fiber receive and power status.

Common applications include SCADA and protective relay systems. This hardened, rugged system may be installed into any of our card housings, and is covered by our **Limited Lifetime Warranty**.



4 Wire Data 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 Simplex current output option to power customer equipment (SUB side only)

Application

Available with ST or SC connectors for single or multi-mode fiber 4 Wire analog audio-tone up to 9600 baud (9.6Kbps)

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

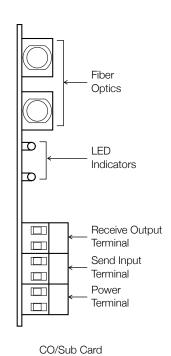
Compatibility

SCADA and Protective Relay systems

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	2km / 1.25 mi.	62.5 µm	CO Card	8806-1235-03	VAUIASE9AA
			SUB Card	8806-1245-03	VAUIASB9AA
Single-mode ST	15km / 9 mi.	8~9 µm	CO Card	8806-1279-01	NPIFCC01AA
Single-mode Si			SUB Card	8806-1289-01	NPIFDC01AA
Oinela	15km / 9 mi.	8~9 µm	CO Card	8805-1279-01	LFT1AAMEAA
Single-mode SC			SUB Card	8805-1289-01	LFT1AANEAA
Long Haul	50 km / :31 mi	8~9 µm	CO Card	8806-1279-01-LH	-
Single-mode ST			SUB Card	8806-1289-01-LH	-
Long Haul Single-mode SC	50 km / 31 mi.	8~9 μm	CO Card	8805-1279-01-LH	-
			SUB Card	8805-1289-01-LH	-

- ▶ 62.5μm multimode fiber compatibility is standard, add **-50** to part number for 50μm fiber compatibility
- ▶ Add -RJ to part number for installed RJ45 adapter
- Add -S to part number for simplex current output option on Sub card only.

General Specifications

Transmission method	Amplitude modulato	d light via two optical fiber		
nansinission method	Multimode:	850nm (Tx level: -26dB ± 1dB))		
	Single-mode:	1310nm (Tx level: -29dB ± 1dB))		
	SM Long Haul:	1310nm (Tx level: -29dB ± 1db)		
Maximum Fiber Loss / Distance*	Multimode:	,		
waximum Fiber Loss / Distance		8dB / 1.2 miles (2km)		
	Single-mode:	8dB / 9 miles (15km)		
	SM Long Haul:	26dB / 31 miles (50km); minimum 8dB lated 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 Connector Types	ST or SC			
Wire Connector	Screw clamp, 12-26	S AWG		
Bandwidth	300 Hz to 3.4 KHz			
Channel Noise	< 20dBrnC (15dBrnC typical)			
DC Resistance Limits	2000 Ohms typical for 50V DC CO battery			
Maximum Analog Data Rate	9600 bps (9.6 Kbps)			
DDS Data Rate	2.4 Kbps			
	4.8 Kbps			
Maximum Latency (Over Fiber System)	250µs			
Nominal Impedance	600 Ohm input and output			
Insertion Loss	0dB +/- 0.5dB each direction			
Overload Level	8dBm into 600 Ohm	ns		
Surge Protection	PTC thermistors, zener diodes and varistors			
Power Requirements	er Requirements 12mA-20mA @ 24-56VDC			
Powering Method	Line or Local Power			
Simplex Current Output Option	x Current Output Option 18mA@24VDC on XMIT pairs, Sub side only			
Operating Temperature	-40° to +158° F (-40° to +70° C), 95% non-condensing			
Dimensions	7"x4"x1" (Standard RLH Fiber Link Card form factor)			
Warranty	Limited Lifetime	Visit www.fiberopticlink.com for warranty details		