

DATA SHEET

The leader in rugged fiber optic technology.



Single Channel T1 Fiber Link Card System

The Single Channel T1 Fiber Link Card converts electrical/copper T1(DS1) signals and transport them over optical fiber. The system can operate from T1 span power (60mA) or local 24/48VDC power. It has LED status and alarm output indicators for system monitoring, and is temperature hardened for use in extreme conditions.

All of the products in the RLH T1 Fiber Link family are designed for the utmost quality and reliability. Typical applications include high voltage GPR isolation, utility, wireless backhaul, and military communications. RLH single channel T1 systems are made in the USA and are covered by our **Limited Lifetime Warranty**.



Single Channel T1 Fiber Link Card

Key Features

Environment

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

Power

Simplex 60mA line powering, eliminating costly external powering Dual power capable, line or local 24/48VDC

Application

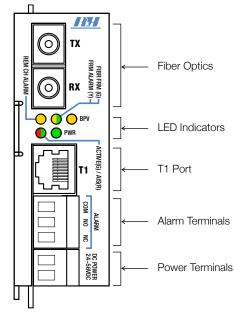
Single-mode (60km/37mi.) / Multimode (2km/1.2mi.) fiber systems ST or SC fiber connector types Loopback testing NC/NO alarm contact for remote monitoring of system health Same unit may be used at either end of the fiber system Can be used within or beyond customer premise environments Critical, high voltage, remote or un-manned locations operating 24/7/365

Compatibility

B8ZS and AMI Plug and play into Single Channel and 2 Channel Card/DIN systems

Quality

Made in the USA Covered by our Limited Lifetime Warranty



CO/Sub Card

Front Panel Features

Optics	Description	Distance	Fiber	Part Number
Multimode ST	Single Channel T1 (CO/SUB)	2km/ 1.2 mi	62.5/50µm	1T4-02-1
Single-mode ST	Single Channel T1 (CO/SUB)	15km/ 9 mi	8~9µm	1T4-20-1
	Single Channel T1 (CO/SUB)	60km/ 37mi	8~9µm	1T4-21-1
Single-mode SC	Single Channel T1 (CO/SUB)	15km/ 9 mi	8~9µm	1T4-10-1
	Single Channel T1 (CO/SUB)	60km/ 37mi	8~9µm	1T4-11-1

> A complete system requires a card on both ends of fiber.

▶ Plug and play compatible with RLH Single & 2 Channel Fiber Link Card and DIN systems.

Please contact your RLH sales representative for pricing and delivery information.

General Specifications

Single-mode: 1310nm (Tx level: -23dB ± 1dB) Single-mode Long Haul: 1310nm (Tx level: -8dB ± 2dB) Maximum Fiber Attenuation / Multimode: 10dB / 1.2 miles (2 km) Distance* 8dB / 9 miles (15 km) Single-mode Long Haul: 26dB* / 37 mi. (60 km), *min. required loss -8dB *Note: Distances equated using industry standard fiber and connector attenuation of 3dE			
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condition, spilles and connectors may affect actual range.	*Note: Distances equated using industry standard fiber and connector attenuation of 3dB/Km. Fiber condition, splices and connectors may affect actual range.		
Fiber Type ST or SC connectors	ST or SC connectors		
Multimode: 62.5/125µm, 50/125µm			
Single-mode: 8-9/125µm			
Temperature Limits-40°F to +158°F (-40°C to +70°C)	-40°F to +158°F (-40°C to +70°C)		
Humidity 95% non-condensing	95% non-condensing		
Dimensions RLH Standard Fiber Link Card Form Factor L7" x W4"x H1.2"	RLH Standard Fiber Link Card Form Factor L7" x W4"x H1.2"		
Mounting Installed into any RLH Fiber Link Card Housing. Rack, DIN mount and wall mount housing	gs are available		
BER <10 ⁻⁹			
Surge Protection Fuses, thyristors, PTC thermistors, zeners, and MOVs	Fuses, thyristors, PTC thermistors, zeners, and MOVs		
Local Power Requirement 24-56 VDC, 60mA	24-56 VDC, 60mA		
Powering Method60mA line power simplexed on Send and Receive pairs, or an isolated DC power source power input terminals.	60mA line power simplexed on Send and Receive pairs, or an isolated DC power source connected to power input terminals.		
Power Connector Non-polarity sensitive local power input via removable screw down terminal block	Non-polarity sensitive local power input via removable screw down terminal block		
Compatibility Compatible with Single and 2 Channel T1 Fiber Link Card and DIN systems			
Warranty Limited Lifetime Visit www.fiberopticlink.com for warranty details			