



PRODUCT INFORMATION

The leader in rugged fiber optic technology.

✓ Unconditional Lifetime Warranty

2011B-0725

SERIAL DATA OVER FIBER

The RLH Serial Data Over Fiber system is a multifunction converter that supports asynchronous serial communications (RS-232/485/422) over fiber optic cable. Fiber optics not only provide the long distance transmission capability up to 74 Miles (120km), but also provide immunity to EMI/RFI and transient surges. They are ideal for data communications near large electrical equipment or where resistance to RF interference is desired.

On the multi-standard module, standards may be mixed and matched, so that RS-232 devices can be connected to RS-485/422 devices, or 2-wire RS-485 devices can be connected to 4-wire RS-422 devices without the need for a converter and isolator.

It supports serial data rates up to 500kbps, and is auto-sensing and self-compensating, requiring no switches, jumpers or other configuring. The auto-turnaround feature eliminates the need for flow control when working with RS-485 signals.

They are powered by 12-24VDC 1A, and low cost power adapter are available for use with AC or DC power. To power multiple units, or for additional powering options, see our DIN mount power supply products.

The Serial Over Fiber Converters feature convenient LED indicators for easy status reporting. These compact units may be wall or panel mounted, and come complete with DIN rail clips and attaching hardware for fast installation into your existing DIN rail equipment setup.

They feature a wide operating temperature range, use industry standard screw-down terminals, and are backed by our

Exclusive Unconditional Lifetime Warranty

RS 232/422/485



RLH Serial Over Fiber Converter

Standard Features

Compact, low cost serial data over fiber solution

Available with ST, SC or FC connectors

Available in Single or Multi-mode, up to 74mi / 120km fiber range

Auto sensing for RS-232/485/422 data

Standards may be mixed and matched (same data type, RS-232 to RS-485/422, or RS-485 to RS-422)

Supports up to 32 nodes of RS-485/422 devices

Manufactured to ISO-9001 standards

Eliminates EMI, RFI, cross talk or ground loop issues

DIN Rail and wall mountable

Convenient LED Status monitoring

Powering requires 12-24VDC 1A

Built-in surge, static and circuit protection

CE/FCC certified

Manufactured to ISO-9001 standards

Exclusive Unconditional Lifetime Warranty



Ordering Information

RLH - SD - XX -1

See Configuration Code

	Config. Code 	Single Fiber Bi-Directional	Dual Fiber	Connector			Wavelength					Range					
				SC	ST	FC	850nm	1310nm	1550nm	Tx 1310nm Rx 1550nm	Tx 1550nm Rx 1310nm	0.5km/0.3 mi.	2km/1.25 mi.	20km/12.4 mi.	40km/24.9 mi.	60km/37 mi.	120km/74 mi.
Multimode	01	•		•							•						
	02	•		•								•					
	03		•	•					•								
	04		•	•	•				•								
	05		•	•		•			•								
	06		•	•	•		•					•					
	07		•	•		•		•				•					
	08		•	•		•		•				•					
Single Mode	10	•		•							•					•	
	11	•		•							•					•	
	12	•		•							•					•	
	13	•		•							•					•	
	14	•		•							•					•	
	15	•		•							•					•	
	20	•		•		•						•				•	
	21	•		•		•						•				•	
	22	•		•		•						•				•	
	23	•		•		•						•				•	
	24	•		•		•						•				•	
	25	•		•		•						•				•	
	30	•		•		•						•				•	
	31	•		•		•						•				•	
	32	•		•		•						•				•	
	33	•		•		•						•				•	
	34	•		•		•						•				•	
	35	•		•		•						•				•	
	40		•	•	•				•							•	
	41		•	•	•				•							•	
	42		•	•	•				•							•	•
	43		•	•	•				•					•			
	44		•	•	•				•					•		•	
	45		•	•	•				•					•		•	•
	50		•	•	•	•			•					•			
	51		•	•	•	•			•					•		•	
	52		•	•	•	•			•					•		•	•
53		•	•	•	•			•					•		•		
54		•	•	•	•			•					•		•		
55		•	•	•	•			•					•		•	•	
60		•	•	•	•	•		•					•				
61		•	•	•	•	•		•					•		•		
62		•	•	•	•	•		•					•		•	•	
63		•	•	•	•	•		•					•				
64		•	•	•	•	•		•					•		•		
65		•	•	•	•	•		•					•		•	•	



RLH Industries, Inc.
 936 N. Main Street, Orange, CA 92867 USA
 T: (714) 532-1672
 F: (714) 532-1885

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

Specifications subject to change without notice.