

The leader in rugged fiber optic technology.

✓ Lifetime Warranty

DS-051 2014A-0910

RLH 10/100 Ethernet DIN Fiber Link System

The RLH 10/100 Ethernet DIN Fiber Link system is a rugged, full featured media converter. It converts copper Ethernet to fiber, and may be used to extend a copper Ethernet network up to 74 miles (120km) over fiber optic cable.

This system is designed to transport critical communications where reliability is paramount. It is environmentally hardened to operate in a wide temperature range and is standards compliant. Advanced features include link fault pass thru, IEEE 802.1q VLAN pass thru, and the ability to configure the copper ports speed and duplex settings.

The 10/100 Ethernet DIN Fiber Link system is designed and made in the USA and covered by our ${\bf Lifetime\ Warranty}$.



RLH 10/100 Ethernet DIN Fiber Link

Key Features

Environment

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

Power

Redundant power capable, local power 24/48VDC or 125VDC

Application

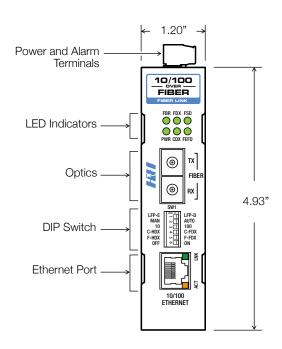
Available with ST or SC connectors for single or multi-mode fiber
Convenient LEDs for power, fiber, speed, and duplex status
Auto negotiate port speed and duplex settings
User friendly switch to manually set copper/fiber port speed
Pass-Through mode - low latency applications
Auto MDI-X - Detects straight through or crossover pinouts and adjusts
Critical, high voltage, remote or un-manned locations operating 24/7/365

Compatibility

IEEE 802.1q VLAN traffic pass through

Quality

Made in the USA - Lifetime Warranty



Front Panel Features and Dimensions



General Specifications

Standards	IEEE 900 9 for 100 as	ONT IEEE 200 211 for 100PageT/M	\$ 100RasaEV				
Standards Connector	IEEE 802.3 for 10BaseT, IEEE 802.3u for 100BaseT(X) & 100BaseFX						
Copper Connector	RJ45						
Copper Distance	100m / 328 feet						
Transmission method	Frequency modulated light via two optical fibers						
	Multimode	1310nm					
	Single-mode	1310nm/1550nm					
Maximum Fiber	Single Fiber (Bi-directional)	Multimode (62.5/125µm):	1.25 mi. / 2km range				
Attenuation / Distance*		Multimode (50/125µm)	1.25 mi. / 2km range				
		Single-mode (9/125µm):	12.4 mi. / 20km range				
			37 mi. / 60km range				
	Dual Fiber	Multimode (62.5/125µm):	1.25 mi. / 2km range				
		Multimode (50/125µm)	1.25 mi. / 2km range				
		Single-mode (9/125µm):	12.4 mi. / 20km range 37 mi. / 60km range				
			74 mi. / 120km range				
	* Note: Distances equated using industry standard fiber and connector attenuation of 3dB/Km. Fiber condition,						
	splices and connecto	lices and connectors may affect actual range.					
Connector Type	ST or SC Multimode						
	ST or SC Single-mode						
Power Margin	8-10dB(2Km, M/M), 12dB ~ 35dB (20 ~ 120Km, S/M)						
LED Indicators	FBR (Fiber) Fiber port link - ON: link OK, OFF: link fail, Blink: activity						
	FDX (Fiber) Fi	Fiber port full duplex - ON: full, OFF: half, Blink: half & collisions					
	FSD Fi	Fiber signal detect - ON: signal detected, OFF: fiber disconnected					
	FEFD Fa	Far end fault detection - OFF: normal operation, Blinking: far end fault detected					
	CDX C	Copper port full duplex - ON: full, OFF: half, Blink: half & collisions					
	PWR Po	Power - ON: power applied, OFF: no power					
	10/100 C	Copper port speed - ON: 100, OFF: 10					
	LINK/ACT C	Copper port link - ON: link OK, OFF: no link, Blink: activity					
DIP Switch (SW1)	Switch 1 Li	Link Fault Pass Through (Enable / Disable)					
		Copper Port Mode (Auto / Manual)					
		Copper Port Speed Select (10 / 100)					
		Copper Port Duplex Select (Half / Full)					
		Fiber Port Duplex Setting (Half / Full)					
		Reset					
Redundant Power	24~48VDC / 125VDC						
Power Consumption	150mA @ 24VDC or 3.6 Watt						
DC Input Isolation	1.5KV						
Fiber Alarm Contact	3 position terminal block (Normally Open / Normally Closed / Common)						
Protection	Voltage Reversal Will operate with V+ or V- in either power terminal						
Trotection	Over Current 1.0A (Automatic Recovery)						
Temperature	Storage -40°C ~ 80°C (-40°F ~ 176°F)						
	Operating -40°C ~ 70°C (-40°F ~ 158°F)						
Construction	Powder coated galvanized steel, IP30 Protection						
Dimensions/Mounting	H 4.93" x W 1.20" x D 3.939" (not including DIN clip)						
Piniensions/Mounting	standard T-35 DIN rail mounting or wall mount						
Warranty							
Warranty	Lifetime						

Ordering Information

Connector	Side	Distance	Wavelength	Fiber	Part Number
Dual Fiber Multimode SC	-	2km / 1.2 mi.	1310nm	62.5/50µm	EFD-03-2
Dual Fiber Multimode ST	-	2km / 1.2 mi.	1310nm	62.5/50µm	EFD-04-2
Single Fiber Multimode SC	А	2km / 1.2 mi.	Tx 1310nm Rx 1550nm	62.5µm	EFD-01-2
	В	2km / 1.2 mi.	Tx 1550nm Rx 1310nm	62.5µm	EFD-02-2
Single Fiber Single-mode SC	А	20km / 12.4 mi.	Tx 1310nm Rx 1550nm	8~9µm	EFD-10-2
	В	20km / 12.4 mi.	Tx 1550nm Rx 1310nm	8~9µm	EFD-11-2
	А	60km / 37 mi.	Tx 1310nm Rx 1550nm	8~9µm	EFD-14-2
	В	60km / 37 mi.	Tx 1550nm Rx 1310nm	8~9µm	EFD-15-2
Dual Fiber Single-mode SC	-	20km / 12.4 mi.	1310nm	8~9µm	EFD-40-2
	-	60km / 37 mi.	1310nm	8~9µm	EFD-41-2
	-	120km / 74 mi.	1550nm	8~9µm	EFD-45-2
	-	20km / 12.4 mi.	1310nm	8~9µm	EFD-50-2
Dual Fiber Single-mode ST	-	60km / 37 mi.	1310nm	8~9µm	EFD-51-2
	-	120km / 74 mi.	1550nm	8~9µm	EFD-55-2

- Add -A to the end of the part number for 125VDC input power option.
- Single fiber models require an **A** Side and **B** Side unit for a complete system.
- Doptic wavelength may be special ordered. Contact an RLH sales representative for availability.
- Please contact your RLH sales representative for pricing and delivery information.