4+2 Fiber Switch

ETH-42-XX-1

Industrial, Rugged, & Compact

RLH industrial switches are engineered to provide reliable network performance in harsh environments. The 4+2 Fiber switch provides both copper and fiber Ethernet access. It is environmentally hardened to operate in a wide temperature range, which is the standard for RLH equipment.

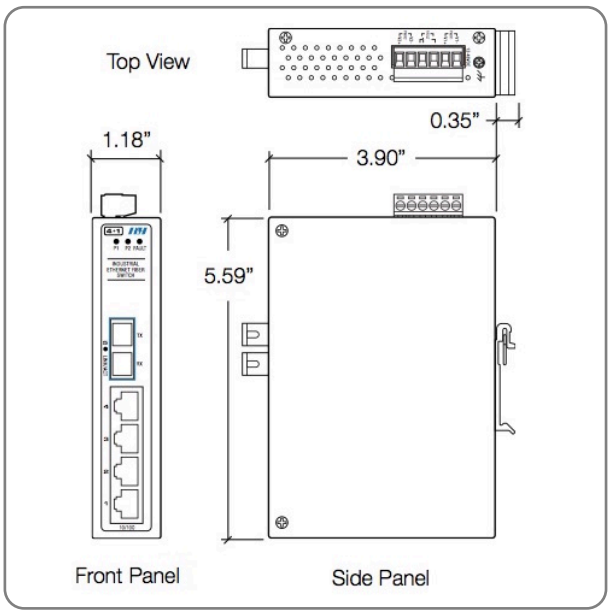
Our industrial switches robust features and construction meet the demands of a variety of applications, and are an ideal solution for a wide range of utility and automation environments.

Industrial 4+1 Fiber Switch

Features

- 4 Fast Ethernet ports
- 2 Fiber 100BaseFX ports
- Wide operating temperature range of -40°C to +75°C (-40°F to +167°F)
- 12-48VDC Dual redundant power inputs
- Power fault alarm relay
- Rugged IP30 housing, DIN rail & wall mountable
- UL, CE, and FCC certification
- TAA and NDAA compliant
- NEMA TS2 (ITS) compliant
- Hazardous Location UL Class 1/Div.2 certified
- 5 Year Warranty

Dimensions



Specifications

Data Process:	Store and Forward, CSMA/CD				
Standards:	**IEEE 802.3** 10Base-T (Ethernet) **IEEE 802.3u** 100Base-TX (Fast Ethernet) **IEEE 100BaseFX** Ethernet over Fiber				
Transfer Rates:	14,880pps for Ethernet port				
	148,800pps for Fast Ethernet port				
Transmission Distance:	Up to 100 Meters over twisted pair				
Transmission Speed:	Up to 100Mbps				
MAC Address:	8K table size				
Fiber Specifications:	**Fiber Type**	**Mode**	**Fiber Diameter**	**Connector Type**	**Distance**
	Single Fiber Bi-Directional	Singlemode	9/125 µm	SC	20km / 12.4miles 60km / 36 miles
	Dual Fiber	Multimode	62.5/125 50/125 µm	ST/SC	2km / 1.2 miles
		Singlemode	9/125 µm	ST/SC	20km / 12.4 miles 60km / 36 miles 120km / 74 miles
	Note: Distances equated using industry standard fiber and connector attenuation of 3dB/Km. Fiber condition, splices and connectors may affect actual range.				
Ethernet Interface:	Auto MDI/MDI-X, Auto-Negotiation				
Ethernet Ports:	(4) 10/100 Mbps				
	(2) Fiber 100BaseFX				
LED Status Indicators:	Power 1 (P1), Power 2 (P2), Fault				
	Ethernet Ports (Link and Activity)				
Power Protection:	Over Current, Power Reversal, Polarity Protection				
Power Input:	12~48VDC redundant power inputs (6 position pluggable terminal block)				
Max Power Consumption:	7 Watts				
Fault Output:	1 Relay output rated for 24VDC @ 1 Amp				
Operating Temperature:	-40°C to 75°C (-40°F to 167°F)				
Storage Temperature:	-40°C to 85°C (-40°F to 185°F)				
Operating Humidity:	5% to 95% (Non-Condensing)				
Construction:	Powder coated IP30 steel housing				
Case Dimensions:	1.18" (W) x 3.90" (D) x 5.59" (H), (30mm x 99mm x 142mm) *Not including connectors or DIN bracket				
Installation:	Standard DIN rail (TS-35) or wall mount *Wall mount brackets included				
EMI:	FCC Class A, CE EN61000-4-2/3/4/5/6/8/11/12, CE EN61000-6-2, CE EN61000-6-4				
Stability Testing:	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)				
Safety:	CE, FCC Class A, UL 61010-1, UL 61010-2-201, File Number: E480850, ISA 12.12.01, UL Class 1/Div.2				
Compliance:	NDAA, TAA, NEMA TS2 (ITS), RoHS and REACH compliant				
Warranty:	5 Years Visit www.fiberopticlink.com for warranty details				

Ordering Information

Description	Connector	Fibers	Wavelength	Distance	Part Number
Multimode	ST	Dual Fibers	1310nm	2km/1.2 miles	**ETH-42-04-1**
	SC	Dual Fibers	1310nm	2km/1.2 miles	**ETH-42-03-1**
Singlemode	ST	Dual Fibers	1310nm	20km/12.4 miles	**ETH-42-50-1**
				60km/37 miles	**ETH-42-51-1**
			1550nm	120km/74 miles	**ETH-42-55-1**
Singlemode	SC	Dual Fibers	1310nm	20km/12.4 miles	**ETH-42-40-1**
				60km/37 miles	**ETH-42-42-1**
			1550nm	120km/74 miles	**ETH-42-45-1**
Singlemode	SC	Single Fiber - Side A	T-1310/R-1550	20km/12.4 miles	**ETH-42-10-1**
		Single Fiber - Side B	R-1310/T-1550	20km/12.4 miles	**ETH-42-11-1**
Singlemode	SC	Single Fiber - Side A	T-1310/R-1550	60km/37 miles	**ETH-42-14-1**
		Single Fiber - Side B	R-1310/T-1550	60km/37 miles	**ETH-42-15-1**

- Single fiber (bi-directional) systems must always be paired, side A and side B
- Please contact your RLH sales representative for pricing and delivery information

Contact

By Mail:	ATTN: Sales RLH Industries, Inc. 936 N. Main Street Orange, CA 92867	
By Phone:	Local	714-532-1672
Sales/Service:	Toll Free	800-877-1672
By Email:	info@fiberopticlink.com	
By Fax:	714-532-1885	

Support

By Email:	support@fiberopticlink.com
By Phone:	Toll Free 855-754-2497