

Gigabit Ethernet SFP Media Converter

The RLH Gigabit Ethernet media converter is a rugged, full featured media converter. It converts copper 10Base-T or 100/1000Base-T(X) Ethernet to fiber, and may be used to extend a copper Ethernet network up to 62 miles (100km) over fiber optic cable.

This system is designed to transport critical communications where reliability is paramount. It is environmentally hardened to operate over a wide temperature range and is standards compliant ensuring compatibility with existing network devices.

Features include link fault pass thru, auto MDI/MDI-X, auto speed and duplex negotiation, a small footprint, and mounting options including both T-35 DIN rail and wall mounting ears.

Key Features

Environment

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

Power

Redundant power inputs, 12~48 VDC accepted

Application

- Dual Rate SFP Port - 100Mbps & 1Gbps
- Convenient LEDs for power, fiber, speed, and activity.
- Auto negotiate port speed and duplex settings.
- Extends network span up to 62 Miles over fiber.
- Auto MDI-X - Detects straight through or crossover pinouts and adjusts.
- Critical, high voltage, remote or un-manned locations operating 24/7/365.

Compatibility

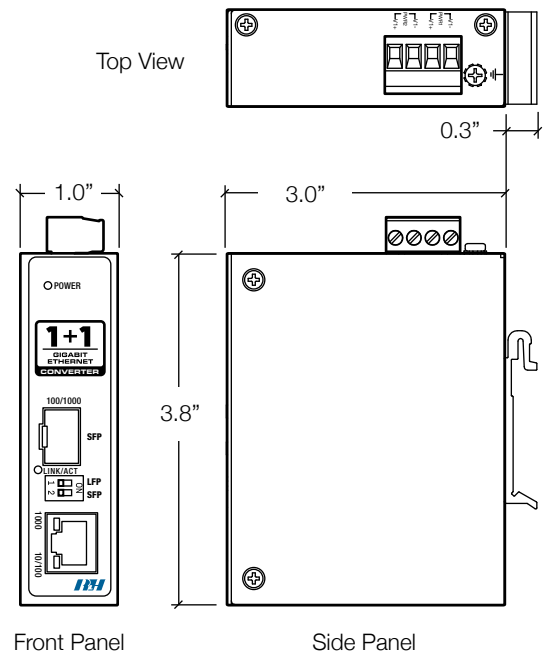
IEEE 802.1q VLAN traffic pass through.

Mounting

DIN rail and wall mount brackets with hardware included



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Front Panel Features & Dimensional Information

General Specifications

Data Process	Store & Forward, CSMA/CD	
Standards	IEEE 802.3 10BaseT Ethernet	IEEE 802.3ab 1000BaseT
	IEEE 802.3u 100BaseTX Fast Ethernet	IEEE 802.3z Gigabit Fiber
Transfer Rate	14,880pps - Ethernet port	IEEE 100BaseFX
	148,800pps - Fast Ethernet port	
	1,488,000pps - Gigabit Ethernet port	
Transmission Distance	Up to 100 Meters over twisted pair	
Transmission Speed	Up to 1000Mbps	
MAC Address	8K table size	
Ethernet Interface	Supports Jumbo Frames, Auto MDI/MDI-X, Auto-Negotiation	
Ethernet Ports	(1) 10/100/1000 Mbps	
	(1) SFP Slot, Accepts 100 or 1000 Mbps speed modules	
DIP Switches	1 - LFP (Link Fault Pass) Enable/Disable	
	2 - SFP 1000Mbps / SFP 100Mbps	
LED Status Indicators	Power	
	SFP (Link/Active)	
	Ethernet Port (10/100 and 1000)	
Power Protection	Over Current, Power Reversal, Polarity Protection	
Power Input	12~48VDC redundant power inputs (4 position pluggable terminal block)	
Max Power Consumption	1.8 Watts	
Operating Temperature	-40°F to 176°F (-40°C to 80°C)	
Storage Temperature	-40°F to 185°F (-40°C to 85°C)	
Operating Humidity	5% to 95% (Non-Condensing)	
Construction	Powder coated IP30 steel housing	
Case Dimensions	1.0" (W) x 3.80" (D) x 3.0" (H), (26mm x 95mm x 75mm) *Not including connectors or DIN bracket	
Installation	Standard DIN rail (T-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 and UL 61010-2-201, File Number: E480850	
Warranty	Limited 5 years Visit www.fiberopticlink.com for warranty details	

Ordering Information

Description	Power Input	Ports	Part Number
Gigabit SFP Media Converter	12~48VDC	(1) Gigabit (1) SFP Slot	EGD-SFP-4

- ▶ SFP Transceivers are ordered separately. See a list of RLH SFP Transceivers at our website.
- ▶ Please contact your RLH sales representative for pricing and delivery information.