

Gigabit PoE+ Ethernet SFP Media Converter

The RLH Gigabit PoE 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. The integrated power over Ethernet feature provides up to 30 Watts of power to a single end device and follows the IEEE 802.3af/at standard.

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, 48~55 VDC accepted

Application

- PoE+ up to 30 watts
- Dual Rate SFP Port - 100Mbps & 1Gbps
- Convenient LEDs for power, fiber, speed, and activity
- Extends network span up to 62 Miles over fiber
- Critical, high voltage, remote or un-manned locations operating 24/7/365

Compatibility

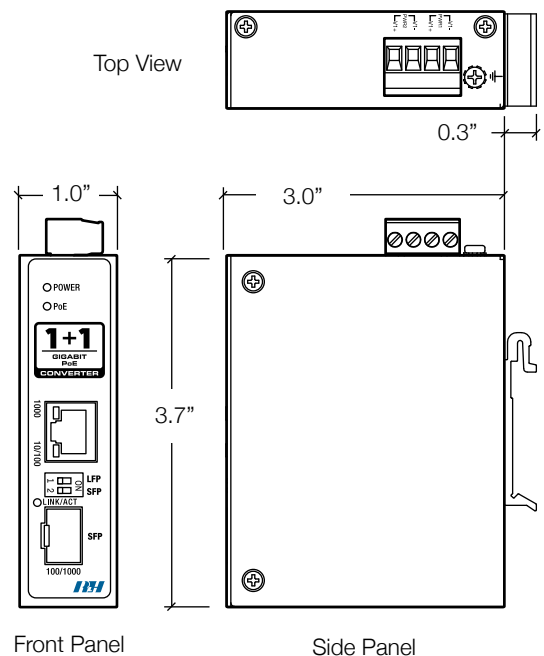
- IEEE 802.1q VLAN traffic pass through
- IEEE 802.3af/at standard

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
	IEEE 802.3af/at Power over Ethernet	
Transfer Rate	14,880pps - Ethernet port	
	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 PoE+	
	(1) SFP Slot, Accepts 100 or 1000 Mbps speed modules	
PoE Power	30 Watts (Mode A / End Span)	
PoE Pin Assignment	Positive (VCC+): Pins 1, 2	
	Negative (VCC-): Pin 3, 6	
	Data: Pin 1, 2, 3, 6	
DIP Switches	1 - LFP (Link Fault Pass) Enable/Disable	
	2 - 1000Mbps / 100Mbps	
LED Status Indicators	Power	
	PoE+ (On and Off), Ethernet Port (10/100 and 1000)	
Power Protection	Over Current, Power Reversal, Polarity Protection	
Power Input	48~55VDC redundant power inputs (4 position pluggable terminal block)	
Max Power Consumption	33 Watts (with full PoE load), 3 Watts (no PoE)	
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 3.70" (D) x 3.0" (H), (26mm x 94mm x 76mm)	
	*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 PoE+ SFP Media Converter	48~55VDC	(1) Gigabit PoE+ (1) SFP Slot	EGD-POE-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.