



Industrial Gigabit Ethernet Media Converter

EGD-XX-4

Rugged, Compact, and Reliable Gigabit Ethernet over Fiber Solution

The RLH Industrial 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.

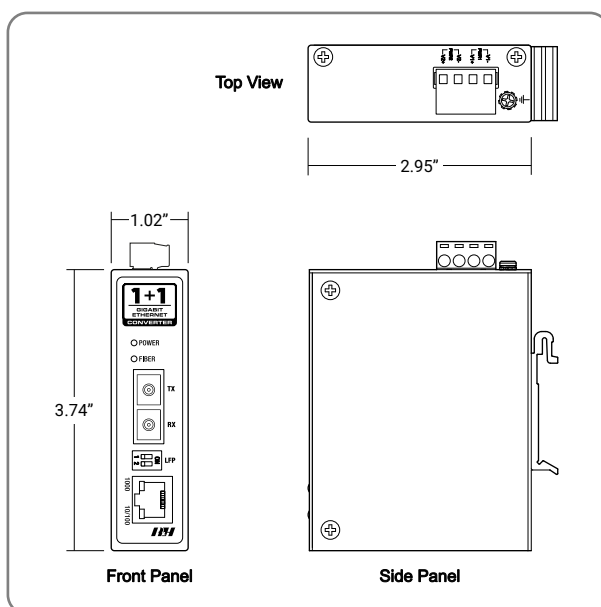
Features

- Rugged design – Extreme operating temperature rating
- Non-removable transceiver for ease of ordering and maximum operating reliability
- Available with ST or SC connectors
- Available in Single or Multimode fiber, supports fiber distances up to 100km/62 miles
- Dual and single (Bi-directional) fiber models available
- Auto negotiation for 10/100/1000 Mbps speeds on copper ethernet connections
- Link Fault Pass Through and Far End fault Detection supported
- Supports IEEE 802.1q VLAN traffic pass through
- IEEE802.3u 10/100/1000Base-Tx, 1000 Base-Fx compliant
- LED's for convenient status monitoring
- Accepts a wide range of power 12~48 VDC
- Built-in surge, static and circuit protection
- DIN rail or wall mount (Includes wall mount ears)



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Dimensions





Specifications

Switch Characteristics

Transmission Method: Store and Forward, CSMA/CD

Standards:
IEEE 802.3 10BaseT (Ethernet)
IEEE 802.3u 100BaseTX (Fast Ethernet)
IEEE 802.3ab 1000BaseT (Gigabit Ethernet)
IEEE 802.3z 1000Base-X (Gigabit Fiber)
IEEE 802.3x flow control

Transfer Rates:
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

Fiber Specifications:	Fiber Type	Mode	Fiber Diameter	Connector Type	Distance
	Single Fiber Bi-Directional	Singlemode	9/125 μ m	SC	20km / 12.4miles 40km/24.8 miles
		Multimode	62.5/125 μ m 50/125 μ m	ST/SC	550m/1804 feet
	Dual Fiber	Singlemode	9/125 μ m	ST/SC	20km / 12.4 miles 40km/24.8 miles 100km/62 miles

Note: Distances equated using industry standard fiber and connector attenuation of 3dB/Km. Fiber condition, splices and connectors may affect actual range.

Wavelength:
Multimode 850/1310nm
Singlemode 1310/1550nm

Note: Wavelength will vary by model

Ethernet Interface: Auto MDI/MDI-X, Auto-Negotiation, Jumbo Frames up to 10K

Ethernet Ports:
(1) 10/100/1000 Mbps
(1) Fiber 100BaseFX

LED Status Indicators:
Power Power - ON/OFF
Fiber Fiber port link - ON: link Present, OFF: No Link, Blink: Link activity
10/100 Copper port speed - ON: 10/100, OFF: No 10/100 Connection, Blink: activity
1000 Copper port speed - ON: 1000, OFF: No 1000 Connection, Blink: activity

DIP Switch (LFP):
Switch 1 Link Fault Pass Through (ON: Enable / OFF: Disable)
Switch 2 Link Fault Pass Through (ON: Enable / OFF: Disable)

Power Protection: Over Current, Power Reversal, Polarity Protection

Power Input: 12~48VDC redundant power inputs (6 position pluggable terminal block)

Max Power Consumption: 1.8 Watts

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)



Specifications (cont.)

Switch Characteristics

Construction:	Powder coated IP30 steel housing
Dimensions:	1" (W) x 3" (D) x 3.8" (H), (26mm x 75mm x 95mm) *Not including connectors, DIN clip, or wall mount ears
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, 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 3rd Edition, UL 61010-2-201 1st Edition, File Number: E480850
Compliance:	NDAA, TAA, NEMA TS2 (ITS), RoHS and REACH compliant
Warranty:	5 Years - Visit www.fiber optic link.com for warranty details

Ordering Information

Description	Connector	Fibers	Wavelength	Distance	Part Number
Multimode	ST	Dual Fibers	1310nm	550m/1804 feet	EGD-04-4
	SC	Dual Fibers	1310nm	550m/1804 feet	EGD-03-4
Multimode	ST	Dual Fibers	850nm	550m/1804 feet	EGD-07-4
	SC	Dual Fibers	850nm	550m/1804 feet	EGD-06-4
Singlemode	ST	Dual Fibers	1310nm	20km/12.4 miles	EGD-50-4
				60km/37 miles	EGD-51-4
			1550nm	120km/74 miles	EGD-55-4
Singlemode	SC	Dual Fibers	1310nm	20km/12.4 miles	EGD-40-4
				60km/37 miles	EGD-41-4
			1550nm	120km/74 miles	EGD-45-4
Singlemode	SC	Single Fiber - Side A	T-1310/R-1550	20km/12.4 miles	EGD-10-4
		Single Fiber - Side B	R-1310/T-1550	20km/12.4 miles	EGD-11-4
Singlemode	SC	Single Fiber - Side A	T-1310/R-1550	40km/24.8 miles	EGD-14-4
		Single Fiber - Side B	R-1310/T-1550	40km/24.8 miles	EGD-15-4

- Single fiber models require an A side and B side unit for a complete system

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