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Industrial Gigabit Ethernet Media Converter

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.

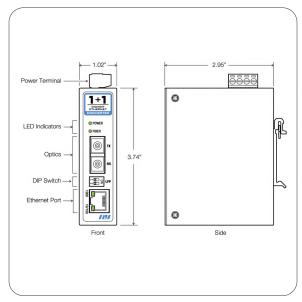
Features include link fault pass thru, auto MDI/MDI-X, auto speed and duplex negotiation, a small footprint, and mounting options including both T-35 DIN rail and wall mounting ears.

Key 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



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Key Specifications

Transmission Method:	Store & Forward	l, CSMA/0	CD		
Data Process Standards:	IEEE 802.3 10BaseT Ethernet, IEEE 802.3u 100BaseTX Fast Ethernet, IEEE 802.3ab 1000BaseT, IEEE 802.3z 1000Base-X Gigabit Fiber				
Transfer Rate(s):	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:	Multimode 62.5/125, 50/125 μm Singlemode 9/125 μm				
Fiber Type / Connector / Distance:	Single Fiber (bi-directional Dual Fiber Note: Distances equicondition, splices a	N S uated using			20km/12.4 miles 40km/24.8 miles 550m/1804 feet 20km/12.4 miles 40km/24.8 miles 100km/62 miles d connector attenuation of 3dB/Km. Fiber
Wavelength:	Multimode Singlemode Note: Wavelength	1	50/1310nm 310/1550nm ^{model}	l	
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 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 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 (4 position pluggable terminal block)				
Max Power Consumption:	1.8 Watts				

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Key Specifications (cont'd)

Operating Temperature:	-40°C to +70°C (-40°F to +158°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	
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 (T-35) or wall mount (bracket included)	
Warranty:	Limited 5 Year	

Ordering Information

Mode	Connector	Distance	Fibers	Wavelength	Part Number
Multimode	ST	550m/1804 feet	Dual Fiber	1310nm	EGD-04-4
Multimode	SC	550m/1804 feet	Dual Fiber	1310nm	EGD-03-4
Multimode	ST	550m/1804 feet	Dual Fiber	850nm	EGD-07-4
Multimode	SC	550m/1804 feet	Dual Fiber	850nm	EGD-06-4
Singlemode	ST	20km/12.4 miles	Dual Fiber	1310nm	EGD-50-4
Singlemode	ST	40km/24.8 miles	Dual Fiber	1310nm	EGD-51-4
Singlemode	ST	100km/62 miles	Dual Fiber	1550nm	EGD-55-4
Singlemode	SC	20km/12.4 miles	Dual Fiber	1310nm	EGD-40-4
Singlemode	SC	40km/24.8 miles	Dual Fiber	1310nm	EGD-41-4
Singlemode	SC	100km/62 miles	Dual Fiber	1550nm	EGD-45-4
Singlemode	SC	20km/12.4 miles	Single Fiber - Side A	T-1310/R-1550	EGD-10-4
Singlemode	SC	20km/12.4 miles	Single Fiber - Side B	R-1310/T-1550	EGD-11-4
Singlemode	SC	40km/24.8 miles	Single Fiber - Side A	T-1310/R-1550	EGD-14-4
Singlemode	SC	40km/24.8 miles	Single Fiber - Side B	R-1310/T-1550	EGD-15-4

[•] Single fiber models require an A side and B side unit for a complete system



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