



RLH Industries, Inc.

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PRODUCT
DATA SHEET

DS-M049 2025-0606

Ultra PoE++ Ethernet Media Converter

EGD-POE-BT-4

Industrial, Rugged and Compact

The RLH Ultra PoE++ Ethernet Media Converter is a rugged, full featured media converter. It converts copper Ethernet to fiber, and may be used to extend a copper Ethernet network up to 62 miles (100km) over fiber optic cable.

The integrated PoE++ power over Ethernet feature provides up to 90 Watts of power to a single end device and follows the IEEE 802.3bt standard. The integrated PoE Remote Reset (PRR) feature allows this device to reset a PoE powered device on Fiber Link failure. When the fiber is disconnected on the local device it will cause the PoE output power to drop at the remote device when the PRR feature is enabled.

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.

Additional Features include link fault pass thru, dual rate SFP slot, a small footprint, and mounting options including both T-35 DIN rail and wall mounting ears.

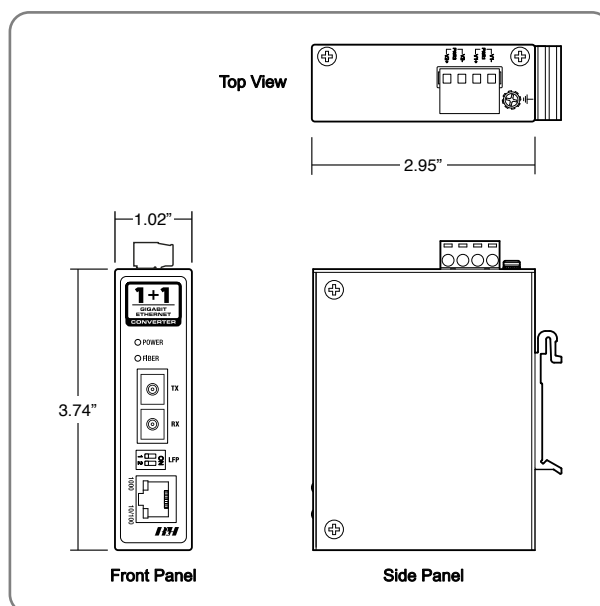
Features

- Wide operating temperature range -40°C to +75°C (-40°F to +167°F)
- Dual Rate SFP Port - 100Mbps & 1Gbps
- Ultra PoE++ port with up to 90 Watts output
- IEEE 802.3bt standard
- IEEE 802.1q VLAN traffic pass through
- Link Fault Pass through
- PoE Remote Reset
- Redundant power inputs
- Rugged case rated to IP30
- DIN rail & wall mountable



Industrial Gigabit Ethernet Media Converter

Dimensions





Specifications

Switch Characteristics

Transmission Method: Store and Forward CSMA/CD, IEEE 802.3x flow control, back pressure flow control

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

Back-Plane Speed: 4Gbps

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

MAC Address: 8k table size

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

Ethernet Ports:
(1) RJ-45 10/100/1000 Mbps
(1) SFP Port – Accepts 100 or 1000 speed SFP Modules

DIP Switch:
Switch 1 PoE Remote Reset (PRR) (ON: Enable / OFF: Disable)
Switch 2 Link Fault Pass-Through (LFP), (ON: Enable / OFF: Disable)
Switch 3 Set to Match SFP Module Speed, 100Mbps or 1000Mbps

PoE Power: 90 Watts (Supports Mode A, Mode B, 4-Pair Mode)

PoE Pin Assignment:
Positive (VCC+) – RJ-45 Pins 3,6,4,5
Negative (VCC-) – RJ-45 Pins 1,2,7,8
PoE Type 4

LED Status Indicators:
Power Status
PoE+ 802af/at status
PoE++ 802.3bt status
Ethernet Port (Link/Active)
SFP Port (Link/Active)

Power Input:
48~55VDC redundant power inputs
53-55VDC Power Supply Recommended

Power Consumption: 3W Max. (All ports Active), PoE Output 90W Max.

Operating Temperature: -40°C to 75°C (-40°F to 167°F)

Storage Temperature: -40°C to 85°C (-40°F to 185°F)



Specifications (cont.)

Switch Characteristics

Operating Humidity:	5% to 95% (Non-Condensing)
Construction:	Powder coated IP30 steel housing
Case Dimensions:	1.81" (W) x 3.90" (D) x 5.59" (H), (46mm 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 Part 15 Subpart B Class A, CE EN55032, CE EN55035, CE EN61000-4-2/3/4/5/6/8
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 and UL 61010-2-201 1st Edition, File Number: E480850
Compliance:	NDAA, TAA, RoHS and REACH compliant
MTBF:	1,993,882 hrs. Telcordia SR-332, Issue 3, GB, 25°C
Warranty:	5 Years Visit www.fiberopticlink.com for warranty details

Ordering Information

Description	Part Number
Ultra PoE++ Ethernet Media Converter	EGD-POE-BT-4

- SFP Transceivers are ordered separately
- The EGD-POE-BT-4-C7898 is compatible with select Bosch IP cameras; please contact RLH for support with Bosch applications
- Please contact your RLH sales representative for pricing and delivery information

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