DATA SHEET

Ultra PoE++ Ethernet Media Converter

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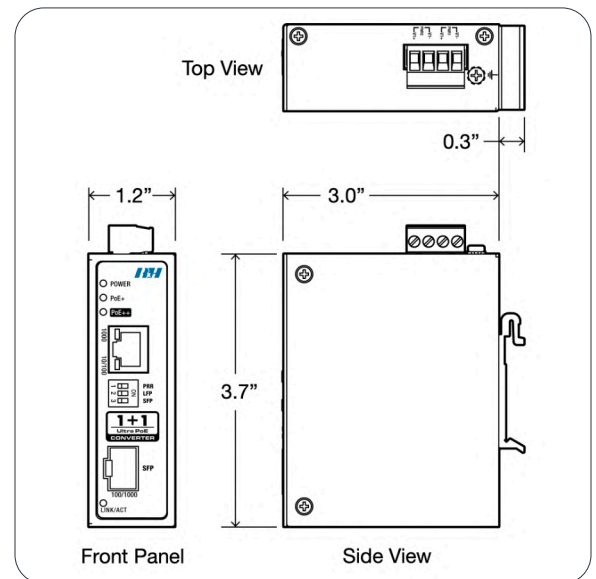
Additional Features include link fault pass thru, dual rate SFP slot, a small footprint, and mounting options including both T-35 DIN rail and wall mounting ears.

Ultra PoE++ Ethernet Media Converter

Dimensions

Key Features

- Wide operating temperature range -40°F to +167°F (-40°C to +75°C)
- 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

Ordering Information

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

Key Specifications

Data Process:	Store & Forward, CSMA/CD, IEEE 802.3x flow control, back pressure flow control
Standards:	IEEE 802.3 10BaseT Ethernet IEEE 802.3z 1000Base-X Gigabit Fiber IEEE 802.3u 100BaseTX Fast Ethernet IEEE 802.3af/at/bt Power over Ethernet IEEE 802.3ab 1000BaseT
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), Enable/ Disable Switch 2 – Link Fault Pass-Through (LFP), Enable/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+ 802.3af/at status PoE++ 802.3bt status Ethernet Port (Link/Active) SFP Port (Link/Active)

General Specifications

Power Input:	48~55VDC redundant power inputs 53-55VDC Power Supply Recommended
Max Power Consumption:	System 3W (All ports Active), PoE Output 90W Max
Operating Temperature:	-40°F to 167°F (-40°C to 75°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:	1.18" (W) x 2.95" (D) x 3.74" (H), (30mm x 75mm x 95mm) *Not including connectors or DIN bracket
Installation:	Standard DIN rail (TS-35) or wall mount *Wall mount brackets included
EMI/EMS:	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)
Warranty:	5 Years

Contact

By Mail:	Att: Sales RLH Industries, Inc. 936 N. Main St. Orange, CA 92867

By Phone:	Local	714-532-1672
Sales / Service Mon - Fri, 6am - 6pm, PST	Toll Free	800-877-1672 866-DO-FIBER

By Email:	info@fiberopticlink.com
By FAX:	714-532-1885

Tech Support

By Email:	support@fiberopticlink.com

By Phone:	Toll Free	855-754-2497 855-RLH-24X7