



RLH Industries, Inc.

fiberopticlink.com

PRODUCT
DATA SHEET

DS-150 2025-1002

8+2 Unmanaged 10/100 RJ45(10/100/1G)/SFP(100/1G) Industrial Switch

ETH-82CP-1

Flex Power, 12-55VDC Powered PoE+ (802.3at 30 Watts)

RLH industrial switches are engineered to provide reliable network performance in harsh environments. The 8+2 SFP PoE+ switch provides both copper and fiber Ethernet access, along with PoE+ powering capabilities. It is environmentally hardened to operate in a wide temperature range, which is the standard for RLH equipment.

The PoE+ ports provide up to 30 Watts of power to end devices following the IEEE 802.3af/at standard. The unique Flex Power feature allows the device to maintain a consistent PoE+ voltage to end devices regardless of the DC powering voltage provided.

Our industrial switches robust features and construction meet the demands of a variety of applications, and are an ideal solution for a wide range of utility and automation environments.

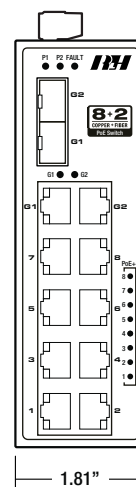


8+2 Unmanaged 10/100 RJ45(10/100/1G)/SFP(100/1G)

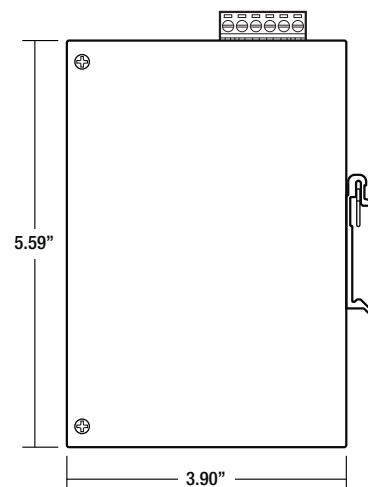
Features

- Hardened to operate in -40°C to +75°C (-40°F to +167°F)
- Flex power - Constant 48VDC PoE+ power (at low input voltages)
- 2 Combo Ports - Either Gigabit RJ-45 or SFP Ports
- 8 PoE+ ports with up to 30 watts per port
- IEEE 802.3af/at Power over Ethernet
- PoE Mode A (End Span)
- Auto MDI/MDI-X
- Rugged case Rated to IP30
- 12~36VDC redundant power inputs with built-in alarm
- 2kV surge protection
- DIN rail & wall mountable
- UL Listed

Dimensions



Front View



Side View





General Specifications

Data Process:	Store and Forward, CSMA/C	
Standards:	IEEE 802.3 10BaseT Ethernet IEEE 802.3u 100BaseTX Fast Ethernet IEEE 802.3ab 1000BaseT Gigabit Ethernet	IEEE 802.3z Gigabit Fiber IEEE 802.3af Power over Ethernet IEEE 802.3at Power over Ethernet Plus (PoE+)
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	
Ethernet Interface:	Supports Jumbo Frames, Auto MDI/MDI-X, Auto-Negotiation	
Ethernet Ports:	(8) 10/100 Mbps PoE+	
	(2) Combo Ports — either (2) 10/100/1000 Mbps or (2) Dual Rate SFP Slots	
PoE Power:	30 Watts (Mode A / End Span)	
Flex Power:	Constant 48VDC PoE+ power throughout input voltage range	
PoE Pin Assignment:	Positive (VCC+) – Pins 1, 2; Negative (VCC-) – Pins 3, 6; Data – Pins 1, 2, 3, 6	
LED Status Indicators:	Power 1 (P1), Power 2 (P2), Fault	
	Ethernet Ports (Link and Activity), PoE+ (On and Off)	
Power Protection:	Over Current, Power Reversal, Polarity Protection	
Power Input:	12~36VDC redundant power inputs (6 position pluggable terminal block)	
Max Power Consumption:	145W @ 12V, 200W @ 24VDC (assuming full PoE load)	
Fault Output:	1 Relay output rated for 24VDC @ 1 Amp	
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)	
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	



General Specifications (cont.)

Installation:	Standard DIN rail (TS-35) or wall mount *Wall mount brackets included
EMI:	FCC Class A, CE EN61000-4-2/3/4/5/6/8/11/12, 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, UL 61010-2-201, File Number: E480850, UL Class 1/Div.2
Compliance:	NDAA, TAA, NEMA TS2 (ITS), RoHS and REACH compliant
MTBF:	545,971 hrs - Telcordia SR-332, Issue 3, GB, 25°C
Warranty:	5 Years - Visit www.fiberopticlink.com for warranty details

Ordering Information

Description	Part Number
8+2 Unmanaged Flex PoE+ 10/100 Industrial Ethernet Switch, combo RJ45(10/100/1G)/SFP(100/1G) 12-48VDC	ETH-82CP-1

Contact

By Mail:	ATTN: Sales RLH Industries, Inc. 936 N. Main Street Orange, CA 92867	
By Phone:	Local	714-532-1672
Sales/Service:	Toll Free	800-877-1672
By Email:	info@fiberopticlink.com	
By Fax:	714-532-1885	

Support

By Email:	support@fiberopticlink.com
By Phone:	Toll Free 855-754-2497