



RLH Industries, Inc.

fiberopticklink.com

PRODUCT
DATA SHEET

DS-088 2025-0530

8+2 Gigabit SFP PoE+ Switch

ETH-82GP-48-1

Industrial Rugged and Compact

RLH industrial switches are engineered to provide reliable network performance in harsh environments. The 8+2 Gigabit SFP PoE+ switch provides both copper and fiber Gigabit 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 SFP ports are dual rate, they can support both Fast Ethernet or Gigabit SFP Modules allowing for extra flexibility when implementing in the field.

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.

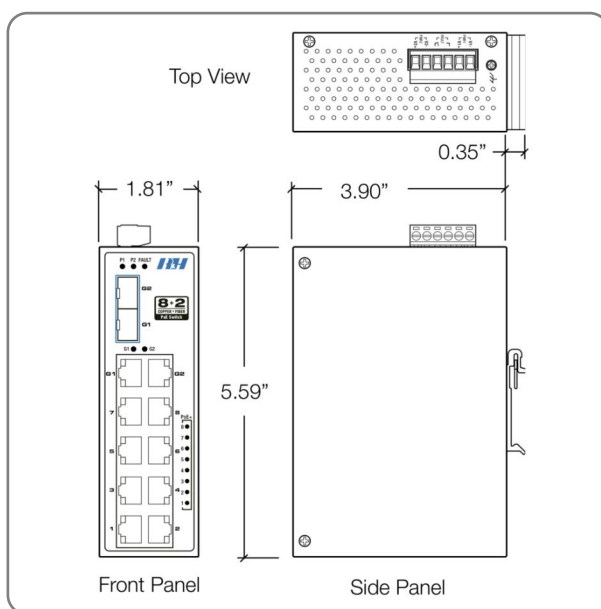
Features

- Wide operating temperature range of -40°C to +75°C (-40°F to +167°F)
- 2 Dual Rate SFP Ports - 100Mbps & 1Gbps
- 8 PoE+ ports with up to 30 Watts per port
- Up to 240 Watts of PoE output power
- Redundant power inputs
- Integrated alarm relay
- IEEE 802.3af/at Power over Ethernet
- Rugged case rated to IP30
- DIN rail & wall mountable
- UL Listed



8+2 Managed Gigabit SFP Switch

Dimensions





Specifications

Switch Characteristics

Data Process:	Store & 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 IEEE 802.3af Power over Ethernet (PoE) IEEE 802.3at Power over Ethernet Plus (PoE+)
Back-Plane Speed:	20Gbps	
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:	Auto MDI/MDI-X, Auto Speed & Duplex Negotiation	
Ethernet Ports:	(8) RJ-45 - 10/100/1000 Mbps with PoE+ (2) SFP Ports – Accepts 100 or 1000 speed SFP Modules	
PoE Power:	30 Watts (Mode A / End Span)	
PoE Pin Assignment:	Positive (VCC+) – RJ-45 Pins 1, 2 Negative (VCC-) – RJ-45 Pins 3, 6	
LED Status Indicators:	Power 1 (P1), Power 2 (P2), Fault, Master, Ring Ethernet Ports (Link and Activity), PoE+ (On and Off)	
Power Protection:	Over Current, Power Reversal, Polarity Protection	
Power Input:	48~55VDC redundant power inputs (pluggable terminal block)	
Max Power Consumption:	System 12W (All ports Active), PoE Output 30W Max per PoE port, 240W PoE Max Budget	
Fault Output:	1 Relay output rated for 24VDC @ 1 Amp	
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:	1.81" (W) x 3.90" (D) x 5.59" (H), (46mm x 99mm x 142mm) *Not including connectors or DIN bracket	



Specifications (cont.)

Switch Characteristics

Installation:	Standard DIN rail (TS-35) or wall mount *Wall mount brackets included	
EMI:	FCC Part 15 Subpart B Class A, CE EN55032, 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 3rd Edition and UL 61010-2-201 1st Edition, File Number: E480850, UL Class 1/Div.2	
Compliance:	NDA, TAA, NEMA TS2 (ITS), RoHS and REACH compliant	
MTBF:	613,584 hrs.	Telcordia SR-332, Issue 3, GB, 25°C
Warranty:	5 Years	Visit www.fiber optic link.com for warranty details

Ordering Information

Description	Part Number
Managed Switch, 8 Gigabit RJ-45 Ports, 2 Dual Rate SFP Ports, Powering Voltage 12~48 DC	ETH-82GM-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@fiber optic link.com	
By Fax:	714-532-1885	

Support

By Email:	support@fiber optic link.com
By Phone:	Toll Free 855-754-2497