



RLH Industries, Inc.

fiberopticlink.com

PRODUCT
DATA SHEET

DS-196 2025-1003

8+2 Managed 10/100/1G SFP Flex PoE+ Industrial Switch

ETH-82GMP-1

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

RLH managed industrial switches are engineered to provide reliable network performance in harsh environments. The 8+2 Managed Gigabit SFP PoE+ Switch provides both copper and fiber Gigabit Ethernet access, along with PoE+ powering capabilities. This environmentally hardened Light Layer 3 switch is manageable and offers a wide array of configuration and monitoring options.

The PoE+ ports provide up to 30 Watts of power to end devices following the IEEE 802.3af/at standard. The switch also comes with redundant power inputs and fault alarm relay for reliability, and is covered by our 5 year warranty.

Features

- 8 Ports of 10/100/1000 PoE+ (30W/Port), IEEE 802.3af/at
- 2 Dual Rate SFP ports – 100Mbps & 1Gbps
- Hardened to operate in -40°C to +75°C (-40°F to +167°F)
- 12-55VDC dual redundant power inputs
- Rugged case rated to IP-30
- DIN rail & wall mountable
- UL Listed, Class 1 Division 2 Hazardous Location Certified
- TAA, NDAA, REACH, CE, FCC Class A, and RoHS Compliant
- Meets NEMA TS2 Requirements for Traffic Control
- Covered by our 5 year warranty

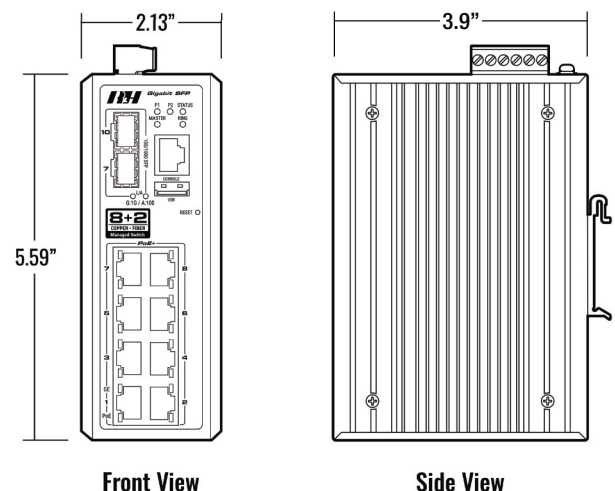
Management

- Light Layer 3 Switch - Supports Static Routes, Inter-VLAN Routing, ACLs, IPv4/IPv6, and DHCP Option 66/67/82
- Network Redundancy: ERPS v1/v2 (G.8032), STP/RSTP/MSTP
- Network Monitoring: SNMP v1/v2c/v3, RMON, sFlow, SPAN
- PoE Port Control & Monitoring
- Programmable alarm relay that alerts users of power/link/PoE failures
- Configuration via Web, Serial, Telnet, SSH, and SNMP

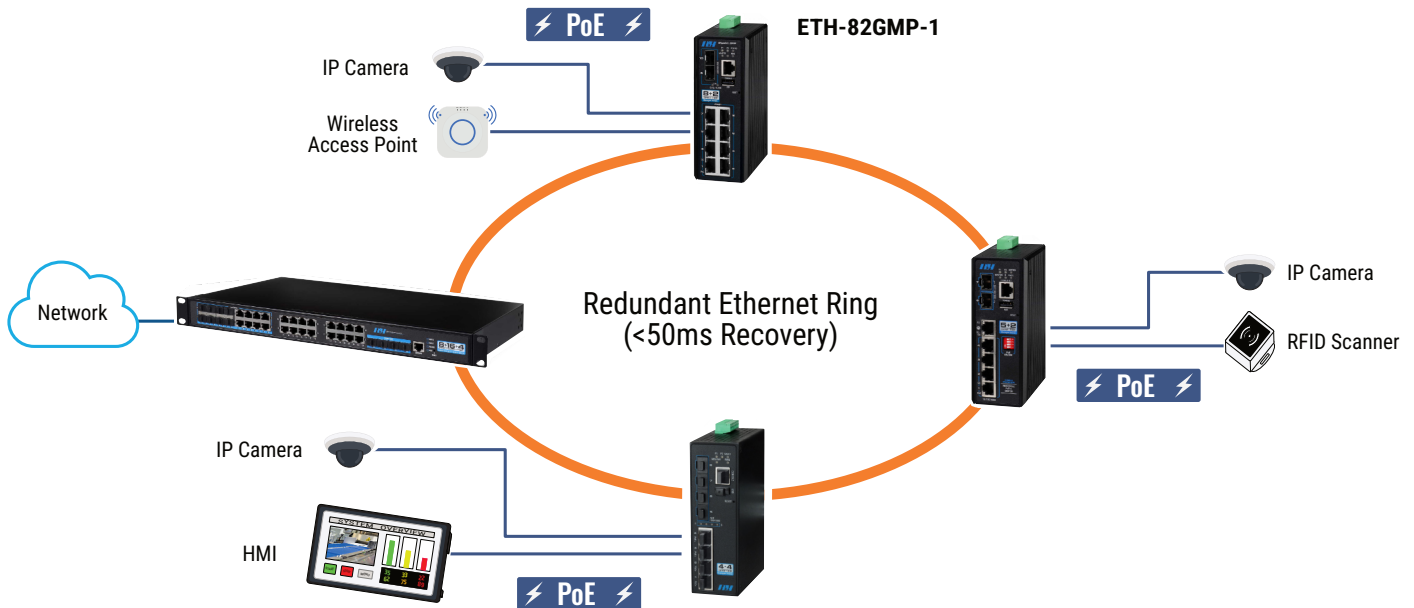


8+2 Managed 10/100/1G SFP Flex PoE+

Dimensions



Application



General Specifications

Switching Architecture:	Light Layer 3, Managed	
Ethernet Interface:	Auto-Negotiation, Full/Half-Duplex, Auto-MDI/MDIX	
Data Process:	Store and Forward	
Standards:	IEEE 802.3 10Base-T (Ethernet) IEEE 802.3u 100Base-TX (Fast Ethernet) IEEE 802.3ab 1000Base-T (Gigabit Ethernet) IEEE 802.3z 1000Base-X (Gigabit Fiber) IEEE 802.1p Quality of Service (QoS) IEEE 802.1X Network Authentication IEEE 802.3ad Link Aggregation (LACP) IEEE 802.3x Flow Control IEEE 802.1d STP (Spanning Tree Protocol) IEEE 802.1w RSTP (Rapid Spanning Tree Protocol) IEEE 802.1s MSTP (Multiple Spanning Tree Protocol) IEEE 802.1Q Virtual Local Area Network (VLAN) IEEE 802.3af Power over Ethernet (PoE) IEEE 802.3at Power over Ethernet Plus (PoE+) IEEE 802.1AB Link Layer Discovery Protocol (LLDP) ITU-T G.8032/Y.1344 ERPS (Ethernet Ring Protection Switch)	
Jumbo Frame:	9.6Kbytes	
MAC Table Size:	8k	
Transfer Rate:	14,880pps for Ethernet port	
	148,800pps for Fast Ethernet port	
	1,488,000pps for Gigabit Ethernet port	



General Specifications (cont.)

Network Protocols:	Network Access/Configuration	FTP, HTTP, HTTPS, IEEE 802.1X, RADIUS, SSHv2, TACACS+, Telnet, TFTP, GVRP, MVR
	Network Communication	ICMPv4/v6, IGMPv1/v2/v3, IPv4/v6, MLDv1/v2, Modbus TCP
	Network Discovery	ARP, DHCPv4/v6, DNS, LLDP, LLDP-MED, NIS, NetBIOS
	Network Monitoring	CFM (CCP/LT/LB, Ethernet OAM), NTP, RMON, SNMPv1/v2c/v3, Syslog, sFlow
	Network Redundancy	ERPS/G.8032 v1/v2 (<50ms recovery), LACP, Spanning Tree (STP/RSTP/MSTP)
Security Features:	AAA, ACEs, ACLs, ARP Inspection, DHCP Snooping, Encryption (SSHv2, TLS/SSL), IP Source Guard, Network Monitoring, Port Mirroring, Port Security, Privileged User Access, System Logging, VCLs, VLANs	
Light Layer 3 Switching:	IPv4/IPv6 Static IP Routing, Inter-VLAN Routing, IP-based ACLs/VCLs, DHCP Option 66/67/82	
PoE Features:	Persistent PoE, PoE Time Scheduling, PoE Ping Alive, PoE Power Budget Management, PoE Port Prioritization	
Power Optimization:	IEEE 802.3az Energy-Efficient Ethernet (EEE), ActiPHY, PerfectReach, PoE Power Management	
Configuration:	HTTP, HTTPS, Telnet, SSH, CLI, TFTP, SNMPv3, Console Port, USB (configuration backup/restore)	
System Diagnostics:	Dual Image Protection, PING, PING6, programmable alarm relay	
Ethernet Ports:	8x Copper	10/100/1000Base-T(X) - PoE+ (IEEE 802.3af/at-compliant)
	2x Fiber	100/1000Base-X - Dual-rated SFP Ports
Serial Port:	1x RJ45	Rollover Cable Included - 115200 Baud, 8 Data Bits, No Parity, 1 Stop Bit, No Flow Control
USB Port:	1x USB-C	USB 2.0 Host Controller - Switch Configuration Backup/Restore
Programmable Alarm:	1x Relay	Normally Closed (SPST) - 24 VDC, 1A resistive"
LED Status Indicators:	System	Power Input 1 (P1), Power Input 2 (P2), Alarm Relay Status (STATUS)
	ERPS Ring	ERPS Ring Master Node (MASTER), ERPS Ring Active (RING)
	Ethernet Port	Ethernet Link/Activity (Top LED), Active PoE Output (Bottom LED)
	SFP Port	Ethernet Link/Activity (Flashing), 100Mbps Link (Amber), 1G Link (Green)
Power Input:	Dual 12-55VDC redundant power inputs	
Power Connection:	1 removable 6-contact terminal block	
Power Protection:	Over Current, Polarity Protection	
Power Consumption:	255 Watts Max. (assuming full PoE load)	
Max. PoE Power:	90W@12VDC, 180W@24VDC, 240W@48-55VDC	
Max. PoE Output:	30 Watts (per PoE port)	



General Specifications (cont.)

Construction:	Metal, IP30 protection
Case Dimensions:	2.13" (W) x 3.90" (D) x 5.59" (H), (54mm x 99mm x 142mm) *Not including dust caps or DIN bracket
Weight:	2.07 lbs. / 0.94 kg (Unit Weight)
	2.87 lbs. / 1.30 kg (Shipping Weight)
Installation:	Standard DIN rail (TS-35) or wall mount *Wall mount brackets included
Temperature:	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)
EMI:	FCC Part 15 Subpart B Class A, CE EN55035/EN61000-6-2 Class A, CE EN55032/EN61000-6-4 Class A
EMS:	IEC61000-4-2 (ESD), IEC61000-4-3 (RS), IEC61000-4-4 (EFT), IEC61000-4-5 (Surge), IEC61000-4-6 (CS), IEC61000-4-8 (Magnetic Field)
Stability Testing:	IEC60068-2-6 (Vibration), IEC60068-2-27 (Shock), IEC60068-2-32 (Free Fall)
Safety:	CE, FCC Class A, UL 61010-1 and UL 61010-2-201, File Number: E544369, UL Class 1/Div.2
Compliance:	NDAA, TAA, NEMA TS2 (ITS), RoHS and REACH compliant
MTBF:	442,020 hrs. - Telcordia SR-332, Issue 3, GB, 25°C
Warranty:	5 Year - Visit www.fiberopticlink.com for warranty details

Ordering Information

Description	Part Number
8+2 Managed Light Layer 3 Flex PoE+ 10/100/1G Industrial Ethernet Switch, SFP(100/1G) ports 12-55VDC	ETH-82GMP-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