



8+2 Managed Gigabit SFP PoE+ Switch

ETH-82GMP-1

Managed Light Layer 3, Industrial 30W PoE+

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
- Wide operating temperature range of -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 Complaint
- Meets NEMA TS2 Requirements for Traffic Control
- Covered by our 5 year warranty

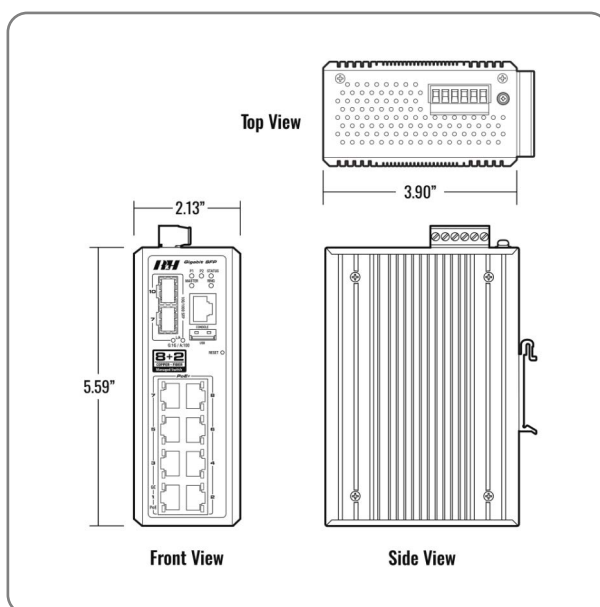
Management

- 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

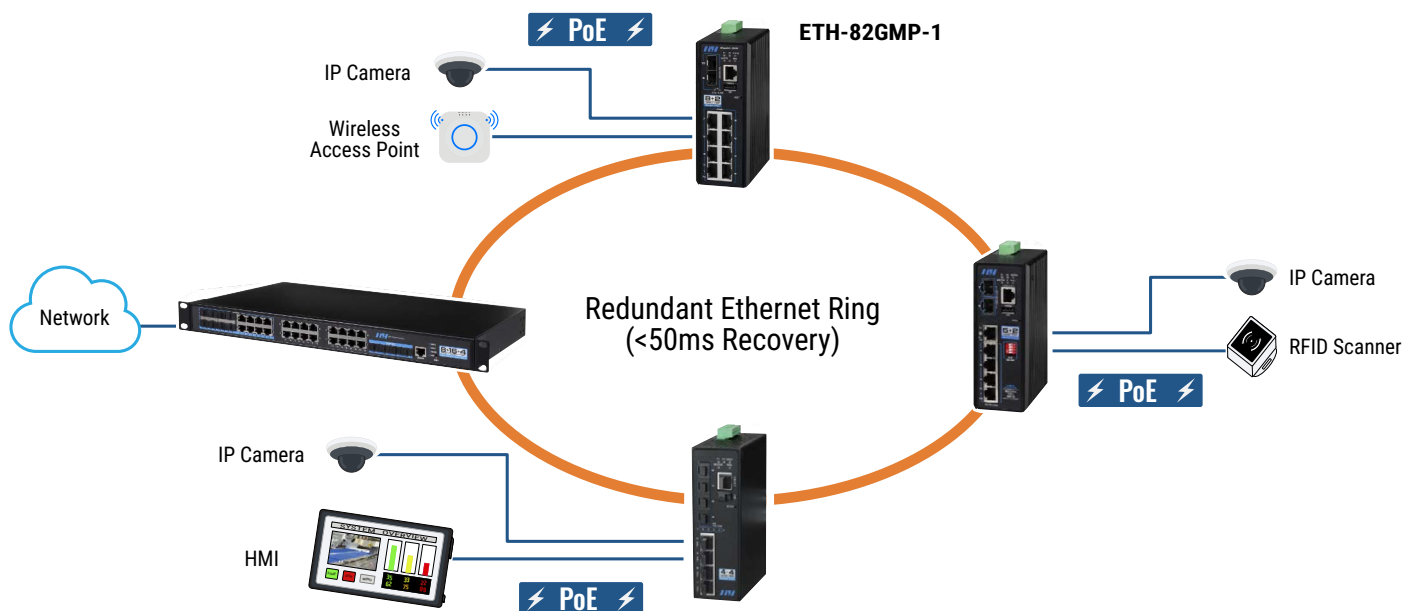


8+2 Managed Gigabit SFP PoE+ Ethernet Switch

Dimensions



Application



Specifications

Switch Characteristics

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 802.1d STP (Spanning Tree Protocol)
	IEEE 802.3u 100Base-TX (Fast Ethernet)	IEEE 802.1w RSTP (Rapid Spanning Tree Protocol)
	IEEE 802.3ab 1000Base-T (Gigabit Ethernet)	IEEE 802.1s MSTP (Multiple Spanning Tree Protocol)
	IEEE 802.3z 1000Base-X (Gigabit Fiber)	IEEE 802.1Q Virtual Local Area Network (VLAN)
	IEEE 802.3af Power over Ethernet (PoE)	IEEE 802.1p Quality of Service (QoS)
	IEEE 802.3at Power over Ethernet Plus (PoE+)	IEEE 802.1X Network Authentication
	IEEE 802.3ad Link Aggregation (LACP)	IEEE 802.1AB Link Layer Discovery Protocol (LLDP)
	IEEE 802.3x Flow Control	ITU-T G.8032/Y.1344 ERPS (Ethernet Ring Protection Switching)

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

Specifications (cont.)

Network Management		
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	
Interface Characteristics		
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 Requirements		
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 Budget:	90W@12VDC, 180W@24VDC, 240W@48-55VDC	
Max. PoE Output:	30 Watts (per PoE port)	



Specifications (cont.)

Physical Characteristics	
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
Environmental	
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)
Regulatory	
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:	NDA, 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.fiber opticlink.com for warranty details

Ordering Information

Description	Part Number
8+2 Gigabit PoE+ Managed Industrial Ethernet Switch, 2 Dual Rate SFP Slots, Power: 12-48VDC	ETH-82GMP-1

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