



5+2 Managed Gigabit SFP PoE++ Switch

PRELIMINARY

Industrial Light Layer 3 Gigabit PoE++ Over Fiber

RLH managed industrial switches are engineered to provide reliable network performance in harsh environments. The 5+2 Managed Gigabit SFP PoE++ switch provides both copper and fiber Gigabit Ethernet access, along with IEEE 802.3bt PoE++ powering capabilities. This environmentally hardened Light Layer 3 switch is manageable and offers a wide array of configuration and monitoring options.

The (4) PoE++ ports provide up to 90 Watts of power to end devices with a maximum total power budget of 240W shared between all 4 ports. The switch also comes with redundant power inputs and fault alarm relay for additional reliability.

Our feature rich industrial switch meets the demands of a variety of applications, and are an ideal solution for a wide range of utility and automation network environments.



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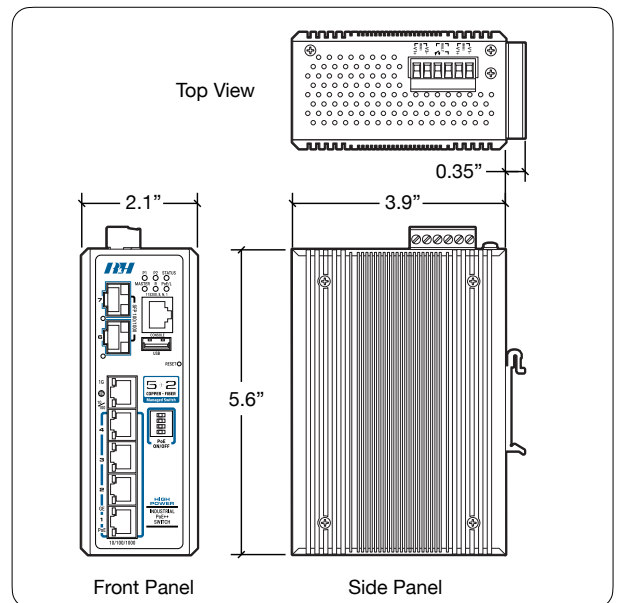
Features

System

- 4 Ports of Gigabit PoE++ (90W/Port), IEEE 802.3bt
- 2 Dual Rate SFP ports – 100Mbps & 1Gbps
- 1 Port 10/100/1000Base-T
- Hardened design has a wide operating temperature range - 40°F to +167°F (-40°C to +75°C)
- 48V DC redundant power inputs with alarm relay
- DIN rail & wall mountable
- UL Listed

Management

- Light Layer 3 Switch – Supports Static Routes, Inter-VLAN Routing, ACLs, IPv4/IPv6, and DHCP Option 66/67/82
- Network Ring support: G.8032 ERPS v2/STP/RSTP/MSTP
- Configuration via Web, Serial, Telnet, & SSH
- Supports VLAN, SNMP v1/v2c/v3, ACL,
- PoE Port Control & Monitoring



Dimensions





Specifications

Data Process	Store & Forward	
Standards	IEEE 802.3 10BaseT Ethernet IEEE 802.3u 100BaseTX Fast Ethernet IEEE 802.3ab 1000BaseT Gig Ethernet IEEE 802.3z 1000BaseX Gigabit Fiber IEEE 802.1ad Stacked VLAN, Q-in-Q IEEE 802.3af/at Power over Ethernet IEEE 802.3bt compliant PoE, 90W/port IEEE 802.3x Flow Control IU-T G.8032 / Y.1344 ERPS v1/v2 (Ethernet Ring Protection Switch)	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 802.1p QoS/CoS Protocol for Traffic Prioritization IEEE 802.1X Network Authentication IEEE 802.1AB Link Layer Discovery Protocol (LLDP) IEEE 802.3ad Link Aggregation (LACP) IEEE 802.1d STP (Spanning Tree Protocol)
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 (9.6K), Auto MDI/MDI-X, Auto-Negotiation	
Ethernet Ports	(4) 10/100/1000 Mbps PoE+ (4) SFP Slots, Accepts 100 or 1000 Mbps speed modules	
PoE Power	90 Watts (Mode A, Mode B, 4-Pair Mode)	
PoE Pin Assignment	V-,V-,V+,V+ Pins 1, 2, 3, 6 ; V+,V+,V-,V- Pins 4,5,7,8	
LED Status Indicators	Power 1 (P1), Power 2 (P2), Fault, Master (M), Ring (R), PoE Load (P/L), Ethernet Ports (Link and Activity)	
Power Protection	Over Current, Power Reversal, Polarity Protection	
Power Input	48~55VDC redundant power inputs (6 position pluggable terminal block)	
Max Power Consumption	250 Watts (assuming full PoE load)	
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	2.12" (W) x 3.90" (D) x 5.59" (H), (54mm x 99mm x 142mm)	
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 and UL 61010-2-201, File Number: E544369, RoHS and REACH compliant	
MTBF	384,570 hrs	
Warranty	5 years - Visit www.fiberopticlink.com for warranty information and coverage details	

Ordering Information

Description	Part Number
Managed Switch, 5 Gigabit RJ-45 Ports, 2 Dual Rate SFP Ports, 90 Watt PoE++, Powering Voltage 48~55 DC	ETH-52GMP-BT-1

- SFP transceivers are ordered separately