



RLH Industries, Inc.

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PRODUCT
DATA SHEET

DS-160 2025-1002

5+2 Managed 10/100/1G SFP PoE++ Industrial Switch

ETH-52GMP-BT-1

802.3bt 90 Watts of Power and Management Features like Ping Alive

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.



5+2 Managed 10/100/1G SFP PoE++

Features

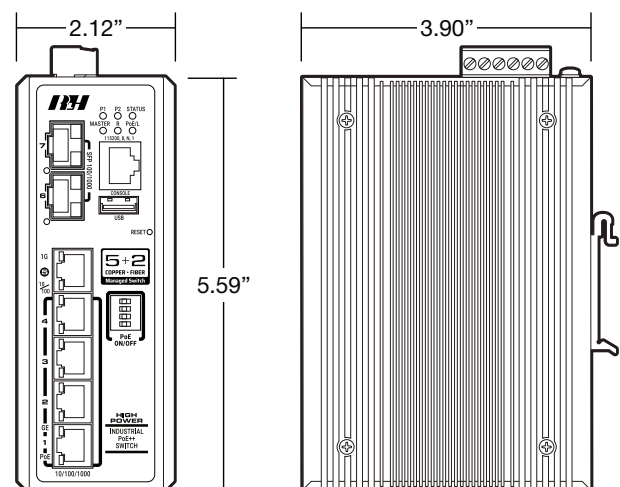
System

- 4 Ports of Gigabit PoE++ (90W/Port), IEEE 802.3bt
- 2 Dual Rate SFP ports – 100Mbps & 1Gbps
- 1 Port 10/100/1000Base-T
- Hardened to operate in -40°C to +75°C (-40°F to +167°F)
- 48~55VDC 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



Front Panel

Side Panel





General Specifications

Data Process:	Store and Forward	
Standards:	IEEE 802.3 10Base-T (Ethernet)	IEEE 802.1AB Link Layer Discovery Protocol (LLDP)
	IEEE 802.3u 100Base-TX (Fast Ethernet)	IEEE 802.1ad Stacked VLAN, Q-in-Q
	IEEE 802.3z 1000Base-X (Gigabit Fiber)	IEEE 802.3ab 1000Base-T (Gigabit Ethernet)
	IEEE 802.3af Power over Ethernet (PoE)	IEEE 802.1d STP (Spanning Tree Protocol)
	IEEE 802.3ad Link Aggregation (LACP)	IEEE 802.3at Power over Ethernet Plus (PoE+)
	IEEE 802.3x Flow Control	IEEE 802.1Q Virtual Local Area Network (VLAN)
	IEEE 802.1p Quality of Service (QoS)	IEEE 802.1s MSTP (Multiple Spanning Tree Protocol)
	IEEE 802.1X Network Authentication	IEEE 802.1w RSTP (Rapid Spanning Tree Protocol)
	IEEE 802.1ad Stacked VLAN, Q-in-Q	ITU-T G.8032/Y.1344 ERPS (Ethernet Ring Protection Switching)
Transfer Rate:	14,880pps for Ethernet port	
	148,800pps for Fast Ethernet port	
	1,488,000pps for Gigabit Ethernet port	
Transmission Distance:	Up to 100 Meters over twisted pair	
Transmission Speed:	Up to 1000 Mbps	
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++	
	(1) 10/100/1000 Mbps	
	(2) 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)	
Power Consumption:	250 Watts Max. (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	



General Specifications (cont.)

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
Compliance:	NDAA, TAA, RoHS and REACH compliant
MTBF:	384,570 hrs. - Telcordia SR-332, Issue 3, GB, 25°C
Warranty:	5 Years - Visit www.fiber opticlink.com for warranty information and coverage details

Ordering Information

Description	Part Number
5+2 Managed Light Layer 3 PoE++(90watts) 10/100/1G Industrial Ethernet Switch SFP(100/1G) ports 48-55VDC	ETH-52GMP-BT-1

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