

DATA SHEET

Industrial 4+2 Managed Fiber PoE+ Switch

Managed Industrial Light Layer 3 Gigabit PoE Switch

RLH industrial switches are engineered to provide reliable network performance in harsh environments. The 4+2 Managed Fiber PoE+ switch provides both copper and fiber 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 unique Flex Power feature allows the device to maintain a consistent PoE+ voltage to end devices regardless of the DC powering voltage provided.

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 environments.

Key Features

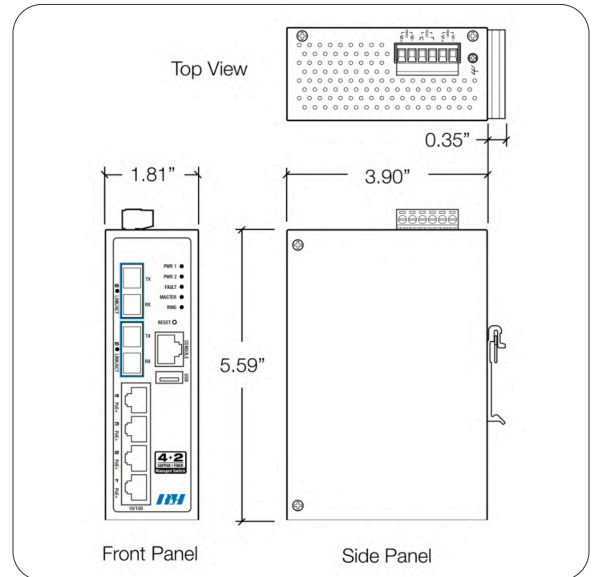
- Hardened design has a wide operating temperature range - 40°F to +167°F (-40°C to +75°C)
- Flex Power – Constant 48VDC PoE+ power (at low input voltages)
- 2 Fiber 100BaseFX ports
- Multimode and singlemode fiber, ST or SC connectors
- Extend Ethernet over fiber, up to 74 miles (120km)
- 4 PoE+ ports with up to 30 watts per port
- IEEE 802.3af/at Power Over Ethernet
- PoE Mode A (End Span)
- 12-55VDC redundant power inputs with built-in alarm
- 2kV surge protection
- DIN rail & wall mountable
- UL Listed

Managed Features

- Light Layer 3 Switch – Supports Static Routes, Inter-VLAN Routing, ACLs, IPv4/IPv6, and DHCP Option 66/67/82
- Configuration via Web, Serial, Telnet, & SSH
- Supports SNMPv3
- Supports IEEE 802.1q Vlans
- PoE Port Control & Monitoring



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Dimensions

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Key Specifications

Data Process:	Store & Forward, CSMA/CD			
Standards:	IEEE 802.3 10BaseT Ethernet	IEEE 802.1s MSTP (Multiple Spanning Tree Protocol)		
	IEEE 802.3u 100BaseTX Fast Ethernet	IEEE 802.1Q Virtual Local Area Network (VLAN)		
	IEEE 802.3af/at Power over Ethernet	IEEE 802.1ad Stacked VLAN, Q-in-Q		
	IEEE 802.3x flow control	IEEE 802.1p QoS/CoS Protocol for Traffic Prioritization		
	IEEE 802.1d STP (Spanning Tree Protocol)	OSI Layer 3 Switch		
	IEEE 802.1X Network Authentication			
	IEEE 802.1w RSTP (Rapid Spanning Tree Protocol)			
	IGMP v1/v2, SNMP v1/v2c/v3, TFTP, SNMP, SMTP, RARP, Syslog, STP, RSTP			
	ITU-TG.8032 / Y.1344 ERPS (Ethernet Ring Protection Switch)			
Transfer Rates:	14,880pps - Ethernet port 148,800pps - Fast Ethernet port			
Transmission Distance:	Up to 100 Meters over twisted pair			
Transmission Speed:	Up to 1000Mbps			
MAC Address:	8K table size			
Fiber:	Multimode:	62.5/125, 50/125 μ m		
	Singlemode:	9/125 μ m		
Fiber Type / Connector / Distance:	Single Fiber	Singlemode	SC	20km / 12.4 miles
	Bi-Directional			60km / 36 miles
	Dual Fiber	Multimode	ST, SC	2km / 1.2 miles
		Singlemode	ST, SC	20km / 12.4 miles
				60km / 36 miles
				120km / 74 miles
	Note: Distances equated using industry standard fiber and connector attenuation of 3dB/Km. Fiber condition, splices and connectors may affect actual range.			
Ethernet Interface:	Auto MDI/MDI-X, Auto-Negotiation			
Ethernet Ports:	(4) 10/100 Mbps PoE+ (2) Fiber 100BaseFX			
PoE Power:	30 Watts (Mode A / End Span)			
Flex Power:	PoE output voltage remains constant when switch is powered with less than 48VDC			
PoE Pin Assignment:	Positive (VCC+) – Pins 1, 2; Negative (VCC-) – Pins 3, 6; Data – Pins 1, 2, 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			

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Power Input:	48~55VDC redundant power inputs (6 position pluggable terminal block)
Max Power Consumption:	145 Watts (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
Case Dimensions:	1.81" (W) x 3.90" (D) x 5.59" (H), (46mm x 99mm x 142mm) *Not including connectors or DIN bracket
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 3rd Edition and UL 61010-2-201 1st Edition, File Number: E480850
Warranty:	Limited 5 Year

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Ordering Information

Mode	Connector	Distance	Fibers	Wavelength	Part Number
Multimode	ST	2km/1.2 miles	Dual Fiber	1310nm	ETH-42MP-04-2
Multimode	SC	2km/1.2 miles	Dual Fiber	1310nm	ETH-42MP-03-2
Singlemode	ST	20km/12.4 miles	Dual Fiber	1310nm	ETH-42MP-50-2
Singlemode	ST	60km/37 miles	Dual Fiber	1310nm	ETH-42MP-51-2
Singlemode	ST	120km/74 miles	Dual Fiber	1550nm	ETH-42MP-55-2
Singlemode	SC	20km/12.4 miles	Dual Fiber	1310nm	ETH-42MP-40-2
Singlemode	SC	60km/37 miles	Dual Fiber	1310nm	ETH-42MP-41-2
Singlemode	SC	120km/74 miles	Dual Fiber	1550nm	ETH-42MP-45-2
Singlemode	SC	20km/12.4 miles	Single Fiber - Side A	T-1310/R-1550	ETH-42MP-10-2
Singlemode	SC	20km/12.4 miles	Single Fiber - Side B	R-1310/T-1550	ETH-42MP-11-2
Singlemode	SC	60km/37 miles	Single Fiber - Side A	T-1310/R-1550	ETH-42MP-14-2
Singlemode	SC	60km/37 miles	Single Fiber - Side B	R-1310/T-1550	ETH-42MP-15-2

- Single fiber (bi-directional) systems must always be paired, side A and side B

Contact

By Mail: Att: Sales
RLH Industries, Inc.
936 N. Main St.
Orange, CA 92867

By Phone: Local 714-532-1672
Sales / Service
Mon - Fri, 6am - 6pm, PST Toll Free 800-877-1672
866-DO-FIBER

By Email: info@fiberopticlink.com

By FAX: 714-532-1885

Tech Support

By Email: support@fiberopticlink.com

By Phone: Toll Free 855-754-2497
855-RLH-24X7