



PRODUCT INFORMATION

The leader in
rugged fiber optic
technology.

PI-023 2015A-1216

Managed 8+16 Ethernet Fiber Switch

1RU 19" RACK MOUNT SWITCH WITH
8 RJ-45 PORTS & 16 FIBER OPTIC PORTS

Description

The Managed Ethernet Switch is a smart managed switch that offers eight (8) 10/100Base-T(x) RJ-45 TCP ports together with sixteen (16) 100Base-FX fiber connectors. The optical interfaces may be dual fiber single mode or multimode, or bi-directional single fiber, and have a transmission up to 120Km/74 miles.

The switch supports web based management features. It supports Port based VLAN and IEEE802.1Q VLAN, VLAN groups and VLAN IDs can be created. It also supports Broadcast storm control, Port bandwidth control, QOS, etc.

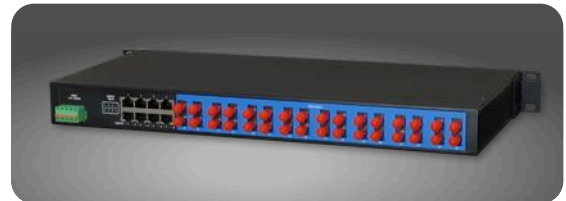
The switch may be used to establish SW-Ring for accomplishing redundancy for an Ethernet ring network topology. The intelligent redundancy system has a short self-recovery time for automatic recovery of any network section.

The RLH Managed Ethernet Switch uses only 1RU and comes complete with EIA19" rack ears for rack mount applications, or it may be used on a desktop or shelf. The fiber optic ports allow for Ethernet network extension over long distances, and fiber optic cable provides electrical isolation between devices. It is ideal for institutional use, medium/small enterprises and intelligent community networks that need to accommodate various services such as video, VOIP and high speed data over fiber.

The RLH 8+16 Ethernet Fiber Switch comes complete with an internal 115/220VAC power supply, and is covered by a 5 year warranty.



Managed 8+16 Ethernet Fiber Switch

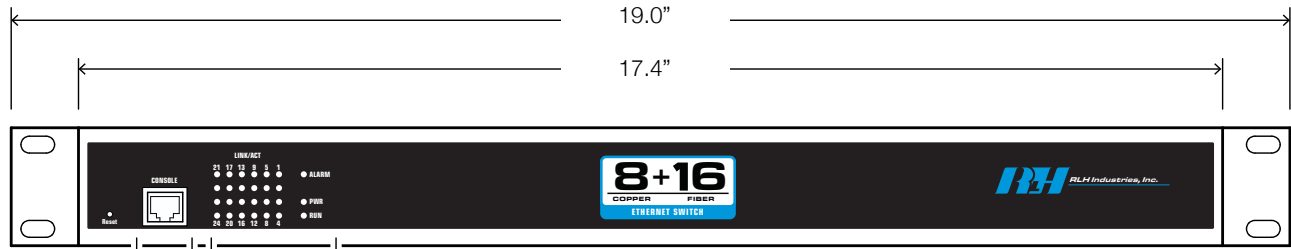


Rear View

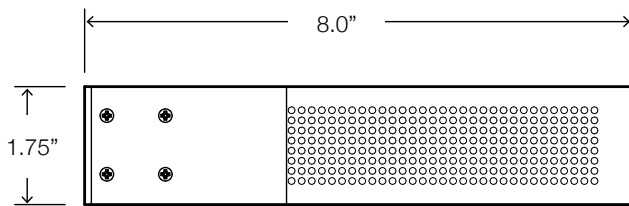
Standard Features

(8) 10/100M TCP ports / (16) 100Base FX fiber ports
IEEE 802.3, IEEE 802.3u, IEEE 802.3ad, IEEE 802.3z, IEEE 802.1w, IEEE 802.1D, IEEE 802.1x compliant
Supports IEEE 802.3x flow control for full-duplex mode and collision-based back-pressure for half-duplex mode
RJ-45 ports are auto MDI/MDIX, auto negotiating
Embedded web management
Supports Port-based VLAN, IEEE 802.1Q VLAN
Supports IP address setting and dynamic learning (DHCP)
Supports port trunk function, port mirroring, port priority, TOS priority, IEEE 802.1p priority
-40°F to +167°F (-40°C to +75°C) operating temp.
Supports 8K MAC addressing
19" 1RU rack mount form factor, steel enclosure
Built-in power supply, 115/220VAC
Supports SW-Ring technology
No fan, low consumption design
5 year warranty

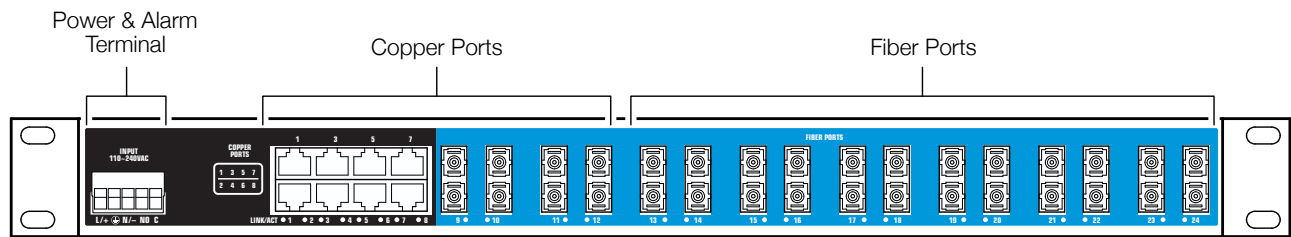
Dimensional Information



Front View



Side View



Rear View

General Specifications

Standards	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z, IEEE 802.1Q, IEEE 802.1D, IEEE 802.1x compliant			
Ports	8 - 10/100M TCP ports			
	16 - 100 FX 1x9 optical ports			
MAC address	8K			
Switching mode	Store & forward architecture and performs forwarding and filtering at non-blocking full wire speed			
VLAN	IEEE 802.1Q Port-based VLAN			
QOS	Supports IEEE802.1P QoS, supports WRR			
Flow Control Mode	IEEE 802.3x flow control for full-duplex mode and collision-based back-pressure for half-duplex mode			
LED Indicators	Link/Act for each port			
	Power ON			
	RUN ON/OFF System operation status			
Port Management	Imbedded Web Management/ console port			
Fiber Type / Connector / Distance (See Note 1)	Single Fiber,	Multimode	SC	2km / 1.2 miles
	Bi-directional	Single-mode	ST, SC	20km / 12.4 miles
				60km / 36 miles
	Dual Fiber	Multimode	ST, SC	2km / 1.2 miles
		Single-mode	ST, SC	20km / 12.4 miles
				60km / 36 miles
				120km / 74 miles
Fiber	Multimode	62.5/125, 50/125 μ m		
	Single-mode	9/125 μ m		
Dimensions	W 17.4" x D 8." x H 1.75" / 441.6mm x 206.9mm x 44.6mm			
	EIA 19" Rack Mountable, 1RU rack height			
Power	90~264VAC/1.2A max, 50/60Hz, 35W			
Temperature	Operating	-40°F to +167°F (-40°C to +75°C)		
	Storage	-45°F to +185°F (-45°C to +85°C)		
Humidity	10%~95% non-condensing			

Note:

1. Refer to ordering information for available connector/fiber type/distance configurations.

Ordering Information

Each unit is identified by the part number.

Optics	Side	Distance	Wavelength	Fiber	Part Number
Multimode ST	-	2 km/1.2 mi	1310nm	62.5 μm	RLH-ESM0816-04-2
Multimode SC	-	2 km/1.2 mi	1310nm	62.5 μm	RLH-ESM0816-03-2
Bi-Directional Multimode SC	A	2 km/1.2 mi	Tx 1310nm / Rx 1550nm	62.5 μm	RLH-ESM0816-01-2
	B	2 km/1.2 mi	Tx 1550nm / Rx 1310nm	62.5 μm	RLH-ESM0816-02-2
Single-mode ST	-	20km/12.4mi.	1310nm	8~9 μm	RLH-ESM0816-50-2
	-	60km / 37mi.	1310nm	8~9 μm	RLH-ESM0816-51-2
	-	120km / 74 mi.	1550nm	8~9 μm	RLH-ESM0816-55-2
Single-mode SC	-	20km/12.4mi.	1310nm	8~9 μm	RLH-ESM0816-40-2
	-	60km / 37mi.	1310nm	8~9 μm	RLH-ESM0816-41-2
	-	120km / 74 mi.	1550nm	8~9 μm	RLH-ESM0816-45-2
Bi-Directional Single-mode SC	A	20km/12.4mi.	Tx 1310nm / Rx 1550nm	8~9 μm	RLH-ESM0816-10-2
	B	20km/12.4mi.	Tx 1550nm / Rx 1310nm	8~9 μm	RLH-ESM0816-11-2
	A	60km / 37mi.	Tx 1310nm / Rx 1550nm	8~9 μm	RLH-ESM0816-14-2
	B	60km / 37mi.	Tx 1550nm / Rx 1310nm	8~9 μm	RLH-ESM0816-15-2

- ▶ Bidirectional single fiber models require an **A** unit and **B** unit for a complete system.
- ▶ Bidirectional optic wavelength may be special ordered. Contact factory for availability.
- ▶ Please contact your RLH sales representative for pricing and delivery information.

Warranty

RLH is recognized throughout the U.S. in the telecommunications industry for our experience and we stand with total confidence in our quality. This product is warranted to be free of defects in material and workmanship for up to 5 years of service.

RLH Industries, Inc. will repair or replace these products that fail provided the defective part is returned to RLH freight prepaid.

To make a warranty claim, or schedule repair or replacement of your RLH product, please contact us for an RMA number. You will be promptly assisted by one of our warranty specialists. All returns must have an RMA number before we can receive any items.

Technical Support

Email:	support@fiberopticlink.com
24/7 technical support:	Toll Free 1-855-RLH-24X7 Toll Free 1-855-754-2497

Contact Information

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Specifications subject to change without notice.