RLH Industries, Inc.

PRODUCT INFORMATION

Managed 12+12 Ethernet Fiber Switch

1RU 19" RACK MOUNT SWITCH WITH 12 RJ-45 PORTS & 12 FIBER OPTIC PORTS

Managed 12+12 Ethernet Fiber Switch

Description

The Managed Ethernet Switch is a smart managed switch that offers 12 10/100Base-T(x) RJ-45 TCP ports together with 12 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 12+12 Ethernet Fiber Switch comes complete with an internal 115/220VAC power supply, and is covered by a limited 5 year warranty.
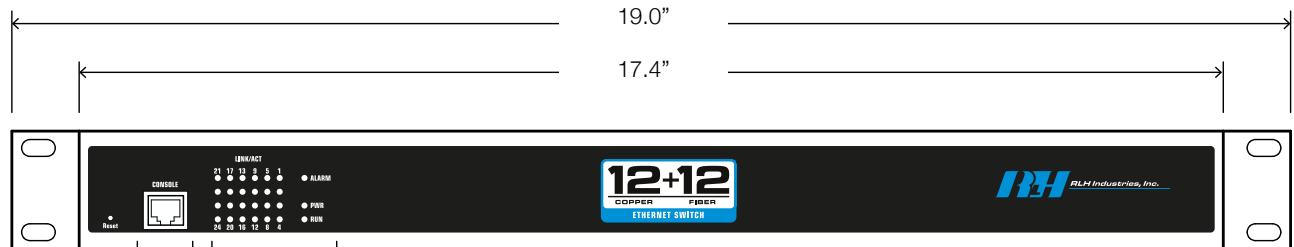

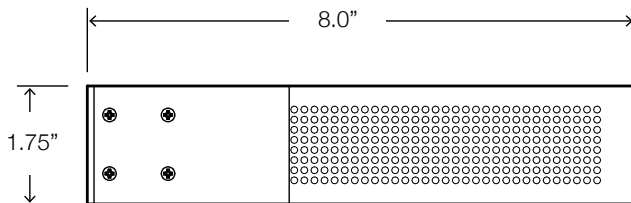*Rear View*

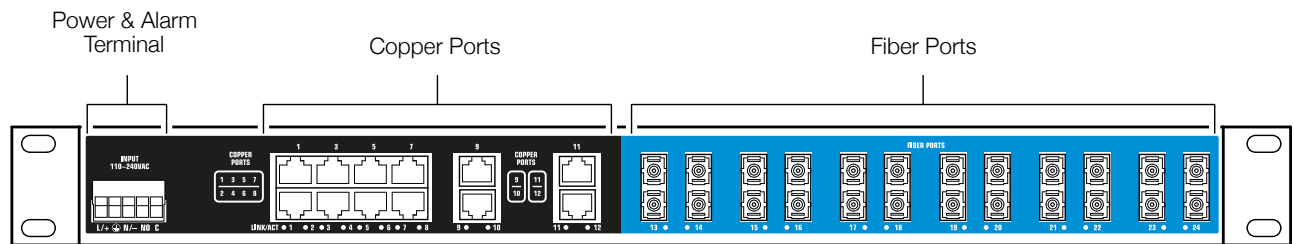| Standard Features |
| --- |
| (12) 10/100M TCP ports / (12) 100Base FX fiber ports |
| IEEE 802.3,IEEE 802.3u,IEEE 802.3ad, IEEE 802.3z, IEEE 802.1w, IEEE 802.1D, IEEE 802.1x compliant |
| Supports IEEE 802.3x flow control for full-duplex mode and collision-based back-pressure for half-duplex mode |
| 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℉ to +167℉ (-40℃ to +75℃) 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 |

Dimensional Information

19.0"

17.4"

Front View

LED
Indicators

Console
Management Port

8.0"

1.75"

Side View

Power & Alarm
Terminal

Copper Ports

Fiber Ports

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	12 10/100M TCP ports
	12 100 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, Bi-directional**	Multimode	SC	2km / 1.2 miles
		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 µm
	Single-mode	9/125 µm
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℉ to +167℉ (-40℃ to +75℃)
	Storage	-45℉ to +185℉ (-45℃ to +85℃)
Humidity	10%~ 95% non-condensing	
Warranty	Limited 5 years	*Visit* www.fiberopticlink.com *for warranty details*

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-ESM1212-04-2**
Multimode SC	-	2 km/1.2 mi	1310nm	62.5 µm	**RLH-ESM1212-03-2**
Bi-Directional Multimode SC	A	2 km/1.2 mi	Tx 1310nm / Rx 1550nm	62.5 µm	**RLH-ESM1212-01-2**
	B	2 km/1.2 mi	Tx 1550nm / Rx 1310nm	62.5 µm	**RLH-ESM1212-02-2**
Single-mode ST	-	20km/12.4mi.	1310nm	8~9 µm	**RLH-ESM1212-50-2**
	-	60km / 37mi.	1310nm	8~9 µm	**RLH-ESM1212-51-2**
	-	120km / 74 mi.	1550nm	8~9 µm	**RLH-ESM1212-55-2**
Single-mode SC	-	20km/12.4mi.	1310nm	8~9 µm	**RLH-ESM1212-40-2**
	-	60km / 37mi.	1310nm	8~9 µm	**RLH-ESM1212-41-2**
	-	120km / 74 mi.	1550nm	8~9 µm	**RLH-ESM1212-45-2**
Bi-Directional Single-mode SC	A	20km/12.4mi.	Tx 1310nm / Rx 1550nm	8~9 µm	**RLH-ESM1212-10-2**
	B	20km/12.4mi.	Tx 1550nm / Rx 1310nm	8~9 µm	**RLH-ESM1212-11-2**
	A	60km / 37mi.	Tx 1310nm / Rx 1550nm	8~9 µm	**RLH-ESM1212-14-2**
	B	60km / 37mi.	Tx 1550nm / Rx 1310nm	8~9 µm	**RLH-ESM1212-15-2**

▶ 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.

Technical Support

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

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Specifications subject to change without notice.