



RESULH4-L1-W
User Manual

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1. Overview

1.1 Introduction

RESULH4-L1-W Series is a Power Sourcing Equipment (PSE) designed for using in IEEE802.3at Type 1/2 and POE++ , Power Over Ethernet (POE) applications Capable of providing up to 90W power, the RESULH4-L1-W Series are aimed at applications requiring PSE functionality such as IP switches, routers and hubs, CCTV DVR, home networking and industrial Ethernet. Automatic identification effective Powered Device (PD) to maintain reliable power supply. It can avoid short circuit, overload and other damage to the circuit.

RESULH4-L1-W series support rich network functionalities such as port mirroring, VLAN, trunking, FastRing, Rstp,rate limiting, port security, SNMP and etc.

1.2 Product Features

- **Support Ethernet Standard Protocol**
 - IEEE802.3 Ethernet Protocol
 - IEEE802.3u Fast Ethernet Protocol
 - IEEE802.3X Full-duplex Standard
 - IEEE802.1D Bridge and Spanning Tree Protocol
 - IEEE802.1Q VLAN Standard
 - IEEE 100Base-Fx Full-duplex Ethernet Standard
 - IEEE802.3at Type 1/2 and POE++
- **Switch Model**
 - Adopt star topology structure, using Ethernet CSMA/CD protocol
 - Supply 6 10/100Mbps Auto-negotiation fast Ethernet ports
 - Supply LED indicator, display the transmission status, Full-duplex/collision and power for each interface
 - Each port can transmit up to 200Mps
 - Support DRAM (Dynamic Random-Access Memory), can self-duplex and renew the MAC address(1K)
 - Support IEEE802.3x full-duplex flow control; half-duplex Back-pressure method

1.3 Technical Specification

SWITCH	
Bandwidth	4.8Gbps
Transmission	Full/Half Duplex 10/100Mbps, auto-negotiation
Architecture	Storing & Forward
Max. Filter Rate	148,800pps
Max. Data Rate	148,800pps

ETHERNET	
Number of Ethernets	5(1~4 Ethernet with PSE)
Supporting standards	IEEE802.3 10Base-T, 100Base-T
Data Rate	10/100Mbps auto-sensing, Full Duplex or Half Duplex
Physical Interface	RJ45, Auto MDI/MDIX
PSE max out power	Type 1: 13.5W
	Type 2: 25.5W
	POE++: 38W/52W/70W/90W

GENERAL	
Operating Temperature	-40 ~ 70°C / -40 ~ +158°F
Operating Humidity	0 ~ 95% non-condensing
Mean Time Between Failure (MTBF)	> 70,000hrs
Enclosure Color	Black
Dimensions (Wall mount, L×W×H)	144mm×105mm×55mm/5.57"×4.12"×2.14"

1.4 Warranty

- Repair
 - Please contact your local distributors when product is defective. Please apply RA in advance and prepay shipping cost when returning the defective product to us. We will pay the cost for sending it back to you.
 - Please attach a statement clearly describing the problem.
- We will repair defective product under warranty free of charge to our customer.
- 5 years warranty for product only.
- Any unauthorized modification of hardware and software voids the warranty.
- Warranty does not cover mishandling and/or abuse of the product.

Products comply with the following Safety Label for International Fiber Communication Equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful Interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at this own expense.

Warning

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

1.5 Instruction of Disassembly

Instruction of Disassembly of Raytec Product (For EU Directive 2002/95/EEC—WEEE)

Tools Required:

- 1) 5 mm flat tip screwdriver
- 2) $\Phi 3$ cross tip screwdriver
- 3) $\Phi 5$ cross tip screwdriver
- 4) Size small snip nose pliers
- 5) 15 mm spanner

Steps for Disassembly:

- 1) Remove tightening screws of box cover (1 or 4-8 screws in general);
- 2) Remove lock nut for BNC with spanner;
- 3) Remove cover plate;
- 4) Remove tightening screws for printed circuit board (PCB);
- 5) In case the assembly has more than one PCB then continue removing the remain tightening screws until none left;
- 6) Use snip nose pliers to loose the nut of flange and then remove optic cable connector (jump wire);
- 7) Snip off power conducting cable and remove power switch /jack/etc.;
- 8) Take out all PCBs;
- 9) Disassembly of product completed.

Notice: When a product reaches the end of it's life—return to Raytec

2 Installation

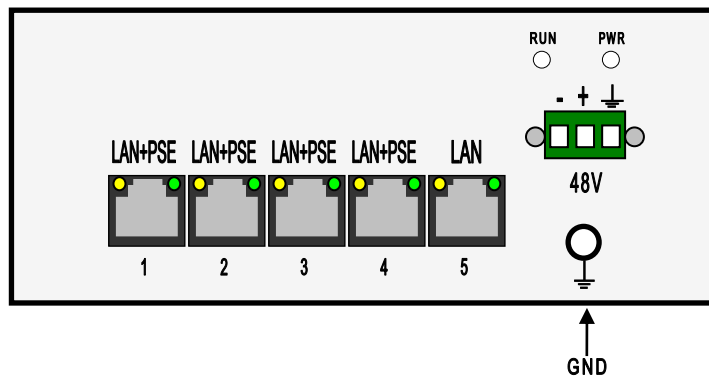
2.1 Package Contents

- One RESULH4-L1-W Industrial Ethernet Switch
- One power supply adaptor
- One User Manual

Please contact dealer or distributor if part is missing or damaged.

2.2 Switch Enclosure

Switch Left View



LED Indicators:

PWR: Power Supply ; on if power input is OK.
 RUN: System operation ; on if system operation is OK.

Connectors:

1~4: Channel 1~4 100M Ethernet with PSE
 5: Channel 5 100M Ethernet

Beside the Ethernet RJ45, there are two LEDs:

The green LED: On if the 100M link is in OK; OFF if the 10M link is in OK.

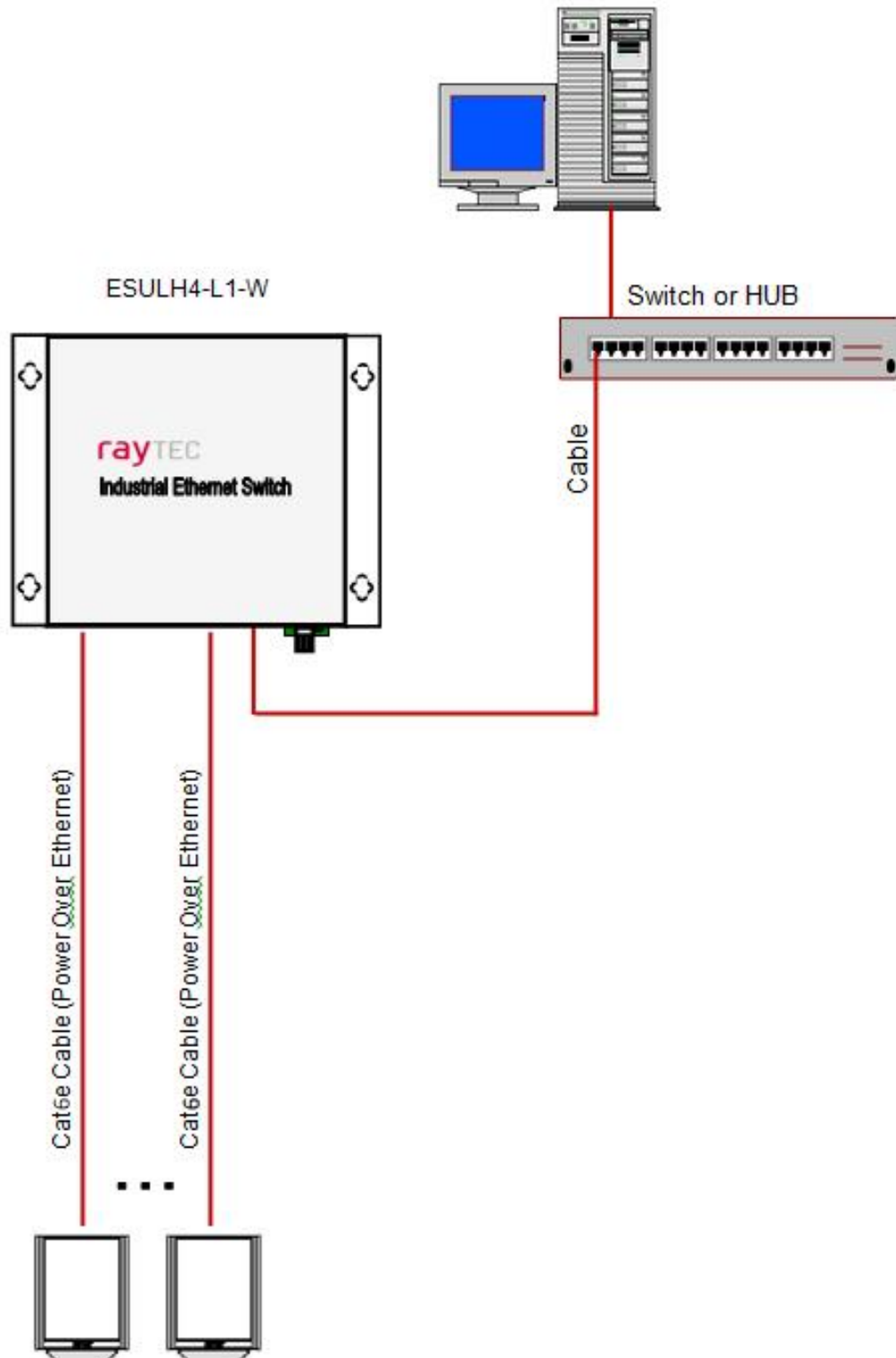
The yellow LED: ON if the Ethernet link is in OK; Flashing if data transmission is in OK.

+: +48VDC(connect to the positive pole of the 48VDC power)
 -: Power Supply Ground(connect to the negative pole of the 48VDC power)
 GND: Grounded pin(Surge protection ground)

2.3 Caution

- Switch off all power supply before installation.

2.4 Install Application



3Dimensions (mm)

Wall Mount:

