

# Quick Installation Guide

## RES-1242P


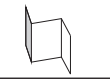

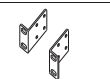

## Rack-Mount Ethernet Switch

### Introduction

The RES-1242P is an unmanaged Ethernet switch with twenty-four 10/100Base-T(X) LAN ports and two 100Base-FX SFP ports. The SFP ports can meet demand for long-distance data transmission. With a wide operating temperature range from -40°C to 70°C, the device can work reliably in harsh environments.

### Package Contents





The device is shipped with the following items. If any of these items is missing or damaged, please contact your customer service representative for assistance.

Contents	Pictures	Number
RES-1242P		X 1
QIG		X 1
Screw (M3 X4)		X 8
Rack-mounted kit (L&R)		X 1
Power cord		X 1

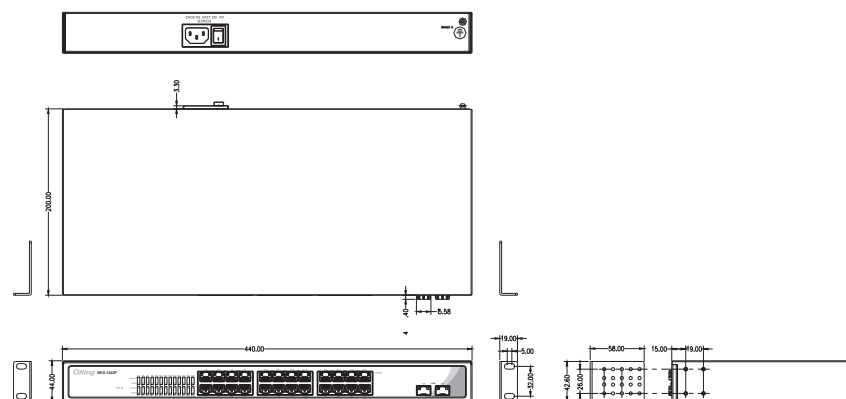
### Preparation

Before you begin installing the switch, make sure you have all of the package contents available.

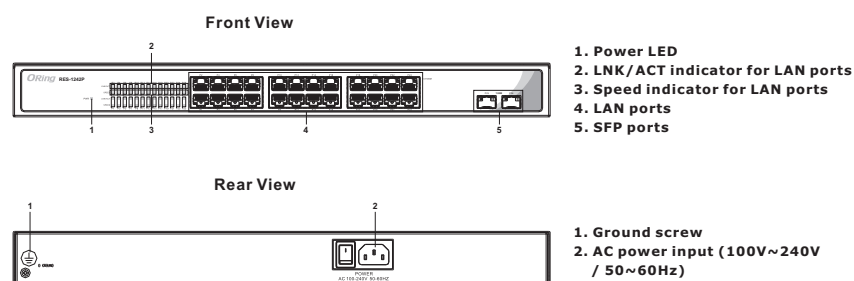
#### Safety & Warnings

-  **Elevated Operating Ambient:** If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (T<sub>ma</sub>) specified by the manufacturer.
-  **Reduced Air Flow:** Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.
-  **Mechanical Loading:** Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.
-  **Circuit Overloading:** Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.

#### Dimension



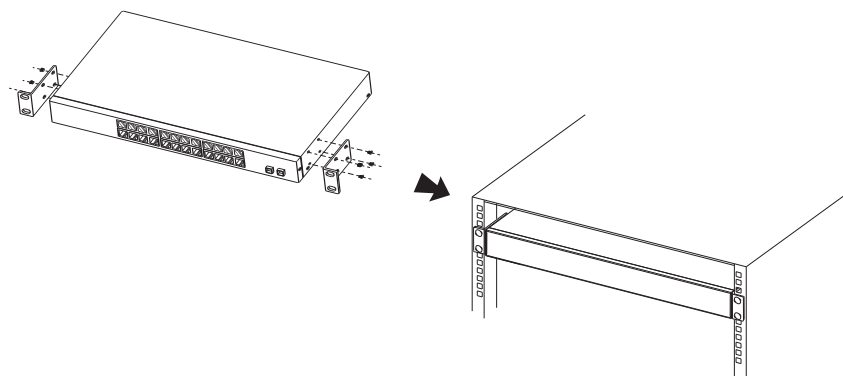
#### Panel Layouts



### Installation

#### Rack-mounting

- Step 1:** Attach the wall-mounting kits to the left and right sides of the device on the front.
- Step 2:** With front brackets orientated in front of the rack, fasten the brackets to the rack using two more screws.



#### Network Connection

The device has standard Ethernet ports. According to the link type, the switch uses CAT 3, 4, 5, 5e UTP cables to connect to any other network devices (PCs, servers, switches, routers, or hubs). Please refer to the following table for cable specifications.

#### Cable Types and Specifications:

Cable	Type	Max. Length	Connector
10BASE-T	Cat. 3, 4, 5 100-ohm	UTP 100 m (328 ft)	RJ-45
100BASE-TX	Cat. 5 100-ohm UTP	UTP 100 m (328 ft)	RJ-45

For pin assignments for different types of cables, please refer to the following tables.

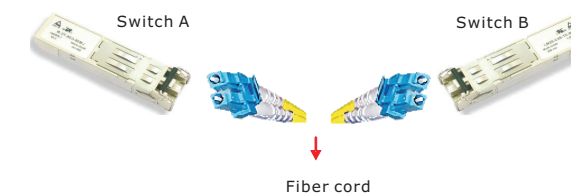
10/100 Base-T(X) RJ-45	
Pin Number	Assignment
1	TD+
2	TD-
3	RD+
4	Not used
5	Not used
6	RD-
7	Not used
8	Not used

10/100Base-T(X) MDI/MDI-X Pin Assignments:		
Pin Number	MDI port	MDI-X port
1	TD+(transmit)	RD+(receive)
2	TD-(transmit)	RD-(receive)
3	RD+(receive)	TD+(transmit)
4	Not used	Not used
5	Not used	Not used
6	RD-(receive)	TD-(transmit)
7	Not used	Not used
8	Not used	Not used

**Note:** "+" and "-" signs represent the polarity of the wires that make up each wire pair.

#### SFP Connection

The device supports fiber connection via SFP transceivers which are hot-swappable and can be plugged into the SFP ports to connect the switch with the fiber-optic network. Please remember that the TX port of Switch A should be connected to the RX port of Switch B.



#### Wiring

##### AC Power Connection

The device is powered by AC electricity. Simply insert the AC power cable to the power connector at the back of the switch and turn on the power switch. The input voltage is AC 100V~240V / 50~60Hz.

##### Grounding

Grounding and wire routing help limit the effects of noise due to electromagnetic interference (EMI). Run the ground connection from the ground screws to the grounding surface prior to connecting devices.

## Configurations

After installing the switch and connecting cables, the green power LED should turn on. Please refer to the following table for LED definition.

### LED indication table

LED	Color	Status	Description
PWR	Green	On	System power on
10/100Base-T(X) RJ45 port			
Link/Act	Green	On	Port is connected
Speed	Green	On	Port is running at 100Mbps
		Off	Port is running is 10Mbps
100Base-FX SFP port			
Link/Act	Green	On	Port connected
		Blinking	Transmitting data

## Specifications

ORing Switch Model	RES-1242P
<b>Physical Ports</b>	
10/100Base-T(X) with P.S.E. Ports in RJ45 Auto MDI/MDIX	24
100Base-FX SFP Port	2
<b>Technology</b>	
Ethernet Standards	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX and 100Base-FX IEEE 802.3x for Flow control
MAC Table	4096
Processing	Store-and-Forward
<b>Power</b>	
Power input	100~240VAC with power socket
Power consumption(Typ.)	25 Watts Max.
Overload current protection	Present
<b>Physical Characteristic</b>	
Enclosure	IP-30
Dimension (W x D x H)	440 (W) x 200 (D) x 44 (H) mm (17.32 x 7.87 x 1.73 inches)
Weight (g)	2450g
<b>Environmental</b>	
Storage Temperature	-40 to 85°C (-40 to 185°F)
Operating Temperature	-40 to 75°C (-40 to 167°F)
Operating Humidity	5% to 95% Non-condensing
<b>Regulatory Approvals</b>	
EMI	FCC Part 15, CISPR (EN55022) class B
EMS	EN61000-4-2 (ESD) EN61000-4-3 (RS) EN61000-4-4 (EFT) EN61000-4-5 (Surge) EN61000-4-6 (CS) EN61000-4-8 EN61000-4-11
Shock	IEC60068-2-27
Free Fall	IEC60068-2-32
Vibration	IEC60068-2-6
Safety	EN60950-1
MTBF(Hours)	510613
Warranty	5 years

# ORing

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