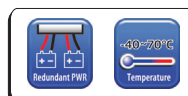SWITCH
INDUSTRIAL

Quick Installation Guide

IES-1240

Industrial Unmanaged Switch

Introduction

IES-1240 is unmanaged Ethernet switch with 24x10/100Base-T(X) port. **IES-1240** support redundant power inputs. relay output alarm, and surge protection. The wide operating temperature range from -40℃ to 70℃ can satisfy most of operating environments. Especially, **IES-1240** features dual different redundant DC power inputs, two DC power inputs are on terminal block to avoid any unexpected fails on power on. Thus, **IES-1240** could guarantee a non-stop operation. Therefore, the switch is one of the most reliable choice for highly-unmanaged Ethernet application.

Features

- **RJ-45 port support Auto MDI/MDI-X switching function**
- **Provides Store-and-Forward switching architecture**
- **Provides 4.8Gbps Back-plane (Switching Fabric)**
- **Warning system by relay output**
- **Rigid IP-30 housing design**
- **DIN-Rail and wall mounting enabled**

Practical Operation

IES-1240 is usually deployed for connecting several Ethernet devices, such like Ethernet I/O, IP-Camera, etc. The designs of rugged housing and wide operating temperature, range form -40 ~ 70℃, makes **IES-1240 r**eliably in any kinds of industrial applications.

● Connections of Ethernet devices
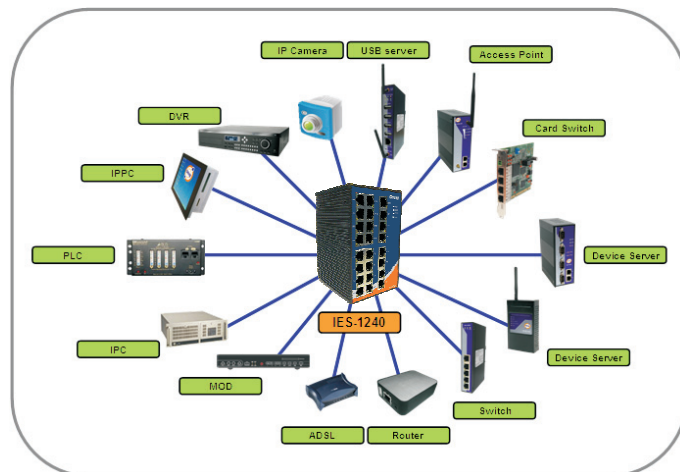
Specifications

ORing Switch Model	IES-1240
Physical Ports	
10/100 Base-T(X) Ports in RJ45 Auto MDI/MDIX	24
Technology	
Ethernet Standards	IEEE 802.3 for 10Base-T, IEEE 802.3u for 100Base-TX IEEE 802.3x for Flow control
MAC Table	8192 MAC addresses
Priority Queues	4
Processing	Store-and-Forward
Switch Properties	Switch latency: 9 us Switch bandwidth: 4.8Gbps
LED indicators	
Power Indicator	Green: Power LED x3
Fault Indicator	Amber: Indicate power failure occurred
10/100 Base-T(X) RJ45 Port Indicator	Green for port Link/Act. Amber for Duplex/Collision
Power	
Redundant Input power	Dual DC input 12-48VDC on 6-pin terminal block
Power consumption(Typ.)	12 Watts
Overload current protection	Present
Reverse polarity protection	Present on terminal block
Physical Characteristic	
Enclosure	IP-30
Dimension (W x D x H)	96.4(W)x108.5(D)x154(H) mm (3.8x4.27x6.06 inch.)
Weight (g)	1052g
Environmental	
Storage Temperature	-40 to 85℃ (-40 to 185°F)
Operating Temperature	-40 to 70℃ (-40 to 158°F)
Operating Humidity	5% to 95% Non-condensing
Regulatory approvals	
EMI	FCC Part 15, CISPR (EN55022) class A
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
Warranty	5 years

Installation

● **DIN-Rail Install Step**   ● **Wall-mountedl Install Step**
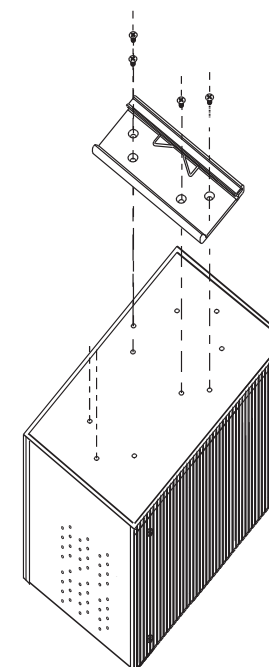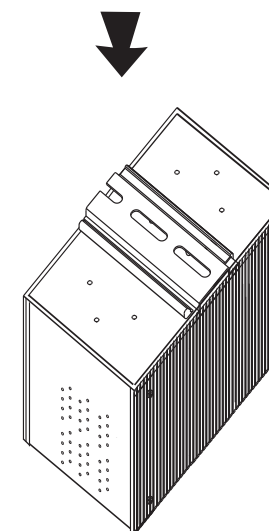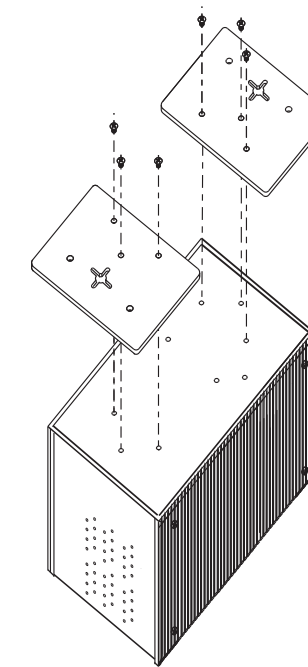
SWITCH INDUSTRIAL

Quick Installation Guide

IES-1240

Industrial Unmanaged Switch

Power Connection Guide

Power Supply

+24V   GND

Warning Device

Power Supply 12-48 VDC   V+ / V-

V- / V+   Power Supply 12-48 VDC

PWR-2   Fault   PWR-1
1A@24V
V2- V2+   V1- V1+   DC12-48V

Frame Ground

Front Panel

ORing

P15	P16	P24
P13	P14	P23
P11	P12	P22
P9	P10	P21
P7	P8	P20
P5	P6	P19
P3	P4	P18
P1	P2	P17

PWR — Power LED
PWR1 — Power 1 LED
PWR2 — Power 2 LED
Fault — Fault LED

LNK/ACT LED (Green)

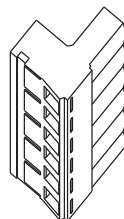10/100 Base-T(X) LAN Port

Full Duplex LED (Amber)

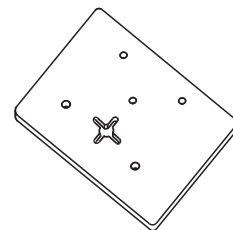10/100M   IES-1240

Ⓐ
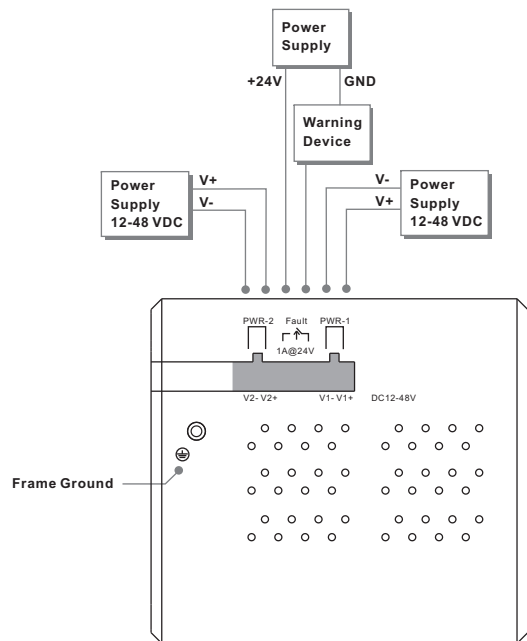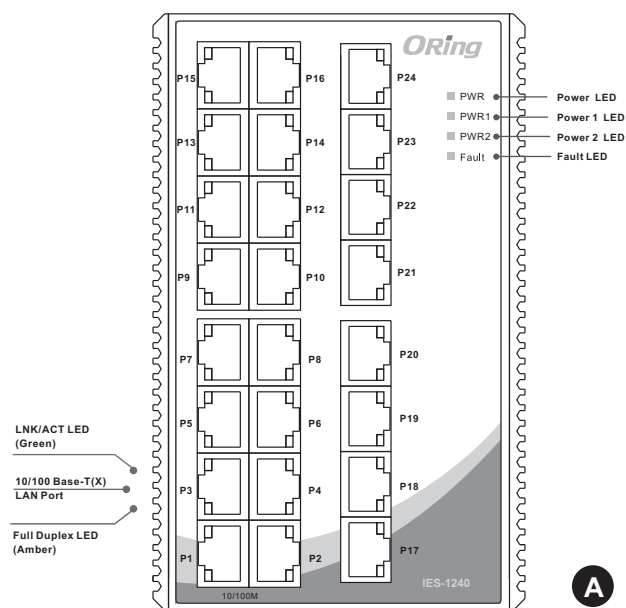
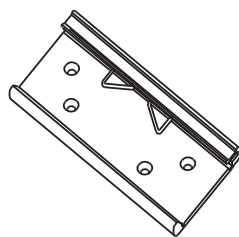## Accessory

① 6-Pin Terminal block

② Dust Cover (RJ-45)
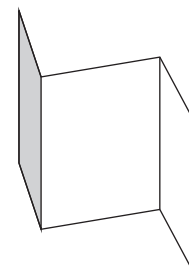
③ Flat Screw (M3 X5)

④ Wall-mounted kit

⑤ 88mm DIN-Rail kit

⑥ QIG

ORing Industrial Networking Corp.

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RoHS FC CE

TEL: +886-2-2918-3036   Website: www.oring-networking.com
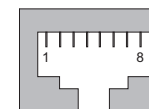FAX: +886-2-2918-3084   E-mail: support@oring-networking.com

Packing list

Model name	Front Panel	Model Description	Accessory
IES-1240	Ⓐ	Industrial 24-port unmanaged Ethernet switch with 24x10/100Base-T(X)	① X 1, ② X 24, ③ X 6, ④ X 2, ⑤ X 1, ⑥ X 1,

Communication Connections
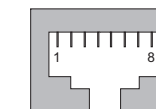
10/100Base-T(X) Ethernet Port Connection

■ RJ45 (8-pin, MDI) Port Pinouts

Pin	Single
1	Tx+
2	Tx-
3	Rx+
6	Rx-

■ RJ45 (8-pin, MDI-X) Port Pinouts

Pin	Single
1	Rx+
2	Rx-
3	Tx+
6	Tx-

■ RJ45 (8-pin) to RJ45 (8-Pin) Straight-Through Cable Wiring

Switch Port — Straight-Through Cable — NIC Port

RJ-45 Connector   RJ45 Plug Pin1   RJ-45 Connector

Tx+	3	3	Rx+
Tx-	6	6	Rx-
Rx+	1	1	Tx+
Rx-	2	2	Tx-
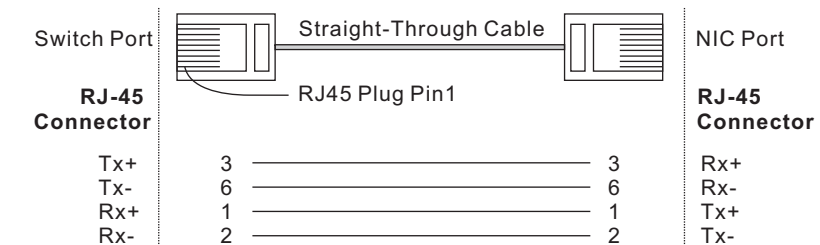
■ RJ45 (8-pin) to RJ45 (8-Pin) Cross-Over Cable Wiring

Switch Port (NIC Port) — Cross-Over Cable — Switch Port (NIC Port)

RJ-45 Connector   RJ45 Plug Pin1   RJ-45 Connector

(Rx+)	Tx+	3	1	Rx+ (Tx+)
(Rx-)	Tx-	6	2	Rx- (Tx-)
(Tx+)	Rx+	1	3	Tx+ (Rx+)
(Tx-)	Rx-	2	6	Tx- (Rx-)