SWITCH INDUSTRIAL

Quick Installation Guide

IES-150B

Industrial Unmanaged Switch

Introduction

IES-150B is unmanaged Ethernet switch with 5x10/100Base-T(X) ports. With very compact size of housing, you can install **IES-150B** easily. In addition, IES-150B is with rigid IP-30 housing design and can operate under harsh environment. The extended operating temperature range from -40℃ to 70℃ is ready and can satisfy most requirement of operation.

Features

▷ **Supports 5 ports 10/100Base-T(X)**
▷ **Supports auto-negotiation and auto-MDI/MDI-X**
▷ **Supports store and forward transmission**
▷ **Supports flow control**
▷ **Compact size for easily installation**
▷ **Rigid IP-30 housing design**
▷ **DIN-Rail and panel mounting enabled**
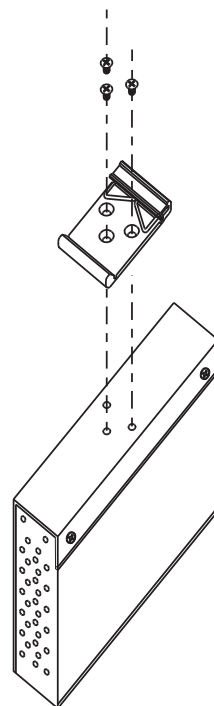
Practical Operation
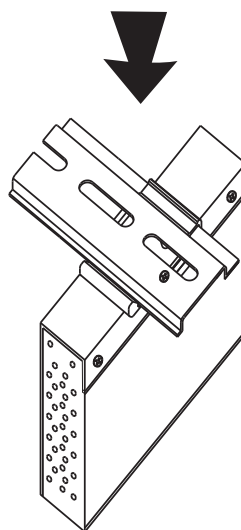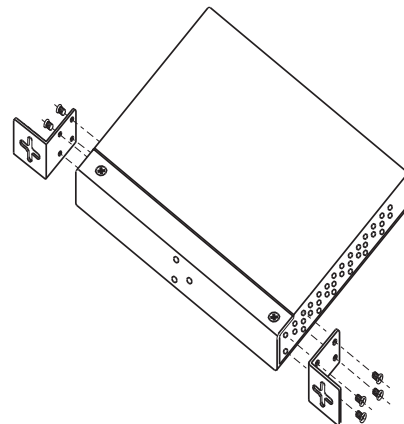
● Connections of Ethernet devices

RES-3242GC-E
File Server
IP Camera
IES-150B
PLC
Network PC
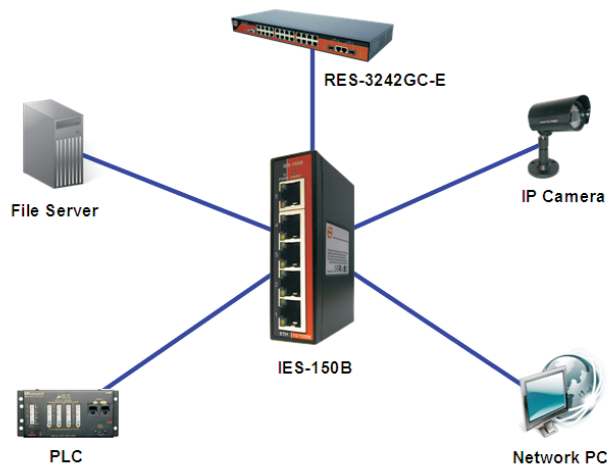
Specifications

ORing Switch Model	IES-150B
Physical Ports	
10/100 Base-T(X) Ports in RJ45 Auto MDI/MDIX	5
Technology	
Ethernet Standards	IEEE 802.3 for 10Base-T, IEEE 802.3u for 100Base-T(X) and 100Base-FX, IEEE 802.3x for Flow control
Processing	Store-and-Forward
LED indicators	
Power indicator	Green: Power LED x2
10/100TX RJ45 Port Indicator	Green for port Link/Act. Amber for duplex indicator
Power	
Input power	Dual 12~48 VDC voltage power input at 4-pin terminal block
Power consumption(Typ.)	3 Watts
Overload current protection	Present
Reverse polarity protection	Present on terminal block
Physical Characteristic	
Enclosure	IP-30
Dimension (W x D x H)	26.1(W) x 70(D) x 95(H)mm (1.03x 2.76 x 3.74nch.)
Weight (g)	205 g
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-mounted Install Step**

Quick Installation Guide

IES-150B

Industrial Unmanaged Switch

Front Panel

Power LED

IES-150B
PWR1 PWR2

5
4
3
2
1

LNK/ACT LED (Green)

10/100 LAN Port

Full Duplex Indicator (Amber)

ETH 10/100M

Power Connection Guide

PWR2   PWR1

G

V2+ V2- V1+ V1- DC12-48V

Frame Ground

Power Supply 12-48 VDC
V+
V-

V+ V-
Power Supply 12-48 VDC
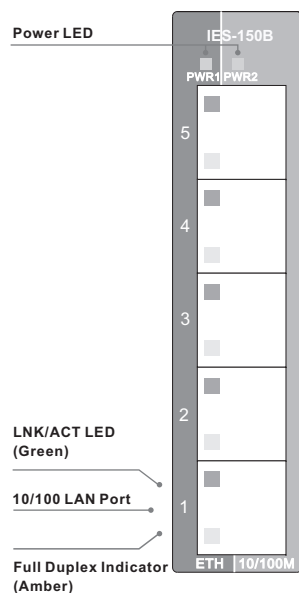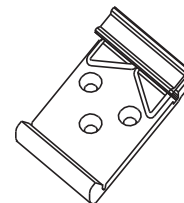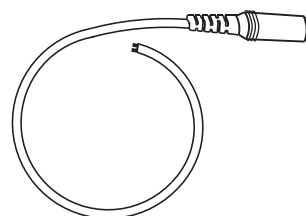
Accessory

① 4-Pin Terminal block

② Dust Cover (RJ-45)

③ Screw (M3 X3)
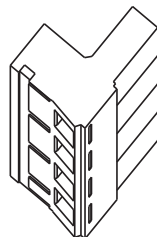
④ Wall-mounted kit

⑤ 25mm DIN-Rail kit

⑥ Power Cable with power jack

⑦ QIG
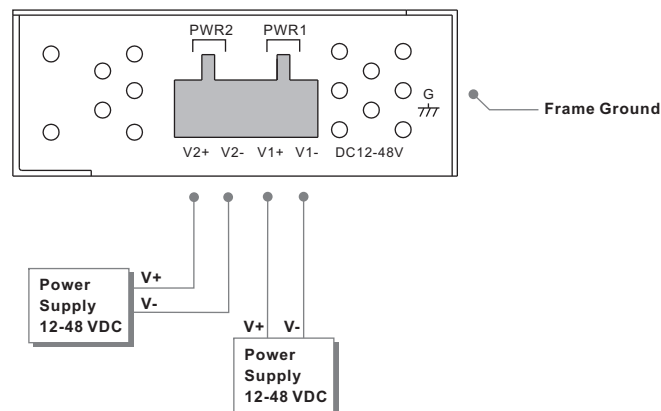
Packing list

Model name	Model Description	Accessory
IES-150B	Industrial 5-port mini type unmanaged Ethernet switch with 5x10/100Base-T(X)	①X 1, ②X 5, ③X 8, ④X 2, ⑤X 1, ⑥X 1, ⑦X 1

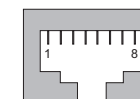## Communication Connections

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

■ RJ45 (8-pin, MDI) Port Pinouts

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

1   8
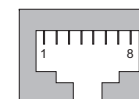
■ RJ45 (8-pin, MDI-X) Port Pinouts

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

1   8

■ 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-
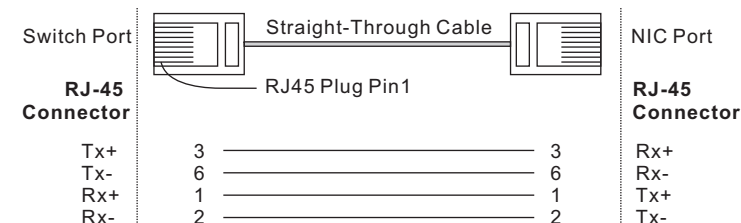
■ RJ45 (8-pin) to RJ45 (8-Pin) Cross-Over Cable Wiring

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-)