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# Industrial Switch User Manual

## FEATURES

- **Protocol:**
  IEEE802.3 10/100/1000M
- **Electrical Ports:**

  2~8 10/100M or 10/100/1000M RJ45 ports and CAT5 cable is used
- **Optical Ports:**
  0~2 100M or 1000M optical port
- **Input Voltage:**
  12/24/48VDC & 24VAC Class 2
- **Power Consumption**:
  <5W
- **Size:**
  24mm (W) x 100mm (H) x 61.8mm (D)
  (3 or 5 Ports Model)

  40mm (W) x 100mm (H) x 61.8mm (D)
  (8 Ports Model)
- **Weight:**
  <0.16KG (3 or 5 Ports Model)
  <0.23KG (8 Ports Model)
- **Operating Temperature:**
  -40℃~75℃(IP30) or -10℃~60℃(IP40)
- **Humidity:**
  5%~95%, No Condensation

## LEDS

| LED | State | | Description |
|---|---|---|---|
| Power(PWR) | Green | On | Power is being supplied to power input. |
| | | Off | Power is not being supplied to power input. |
| Ports (1000M Model) | Green | On | When the port is active and links on 1000 Mbps. |
| | | Blinking | When the port's data is being transmitted at 1000 Mbps. |
| | | Off | When the port is inactive or link down. |
| | Amber | On | When the port is active and links on 10/100 Mbps. |
| | | Blinking | When the port's data is being transmitted at 10/100 Mbps. |
| | | Off | When the port is inactive or link down. |
| Ports (10/100M Model) | Green | On | When the port is active and links. |
| | | Blinking | When the port's data is being transmitted. |
| | | Off | When the port is inactive or link down. |

## DIN-Rail Mounting

Suggested Installation Method:

1) Make sure there is enough space for installation and good ventilation where you select to install the device.

2) Insert the upper lip of the DIN-Rail kit into the mounting rail as the arrow 1 shows. Press the device towards the mounting rail until it snaps into the place as the arrow 2 in Figure 1 shows.

Suggested Removal Method:

1) Press down the device a little bit hard as the arrow 1 in Figure 2 shows.

2) Slightly pull the device backward and lift up to remove it from the mounting rail as the arrow 2 in Figure 2 shows.

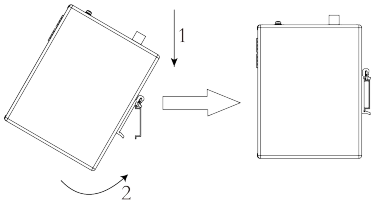



Figure 1 Installation Method

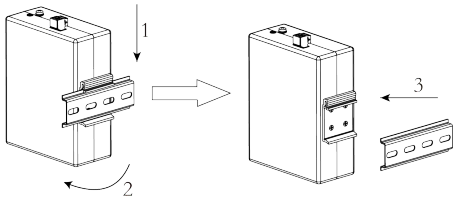
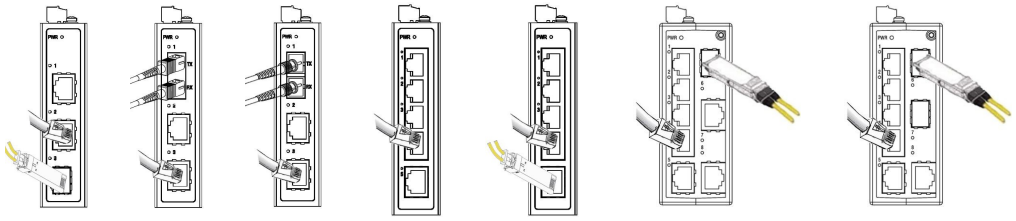


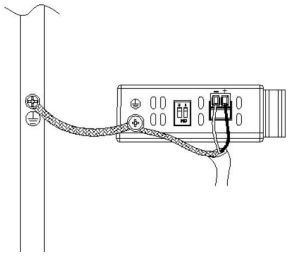

Figure 2 Removal Method

## Port Connection Diagram

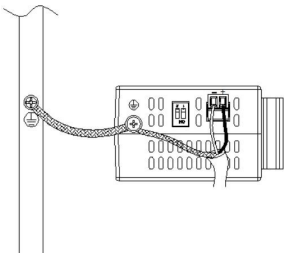


## Power Connection Diagram

AC/DC input cable connection diagram for 3 or 5 Ports Model



AC/DC input cable connection diagram for 8 Ports Model



[NOTE]:

Before connecting the device to the AC/DC power inputs, make sure the AC/DC power source voltage is stable.

**L/**+ end is connected to the positive AC/DC wire.

**N/**− end is connected to the negative AC/DC wire.

## DIP Switch Setting

The switch allows users to enable or disable the Quality of Service (QoS) function, and broadcast storm protection (BSP) with DIP switch on the outer panel.

**Settings for the Fast Ethernet switches:**

<table>
<tr><th>DIP Switch</th><th>Setting</th><th>Description</th></tr>
<tr><td rowspan="2">Quality of Service (QoS)</td><td>ON</td><td>Enable the quality of Service to handle packet priorities in two WRR queues. QoS priority mapping matrix in each queue.
<table>
<tr><td>Qos 3bit priority</td><td>7.6.5.4</td><td>3.2.1.0</td></tr>
<tr><td>Queues</td><td>1</td><td>0</td></tr>
<tr><td>WRR</td><td>16</td><td>1</td></tr>
</table></td></tr>
<tr><td>OFF</td><td>Disables the Quality of Service.</td></tr>
<tr><td rowspan="2">Broadcast Storm Protection (BSP)</td><td>ON</td><td>Enables broadcast storm protection (only allow maximum of 200 broadcast packets per second) for each Ethernet port.</td></tr>
<tr><td>OFF</td><td>Disable the broadcast storm protection.</td></tr>
</table>

**Settings for the Gigabit Ethernet switches:**

<table>
<tr><th>DIP Switch</th><th>Setting</th><th>Description</th></tr>
<tr><td rowspan="2">Quality of Service (QoS)</td><td>ON</td><td>Enable the quality of Service to handle packet priorities in four WRR queues. CoS and ToS/DSCP priority mapping matrix in each queue.
<table>
<tr><td>CoS Priority</td><td>7,6</td><td>5,4</td><td>3,2</td><td>1,0</td></tr>
<tr><td>ToS/DSCP Priority</td><td>63 to 48</td><td>47 to 32</td><td>31 to 16</td><td>15 to 0</td></tr>
<tr><td>Queues</td><td>3</td><td>2</td><td>1</td><td>0</td></tr>
<tr><td>WRR</td><td>8</td><td>4</td><td>2</td><td>1</td></tr>
</table></td></tr>
<tr><td>OFF</td><td>Disables the Quality of Service</td></tr>
<tr><td rowspan="2">Broadcast Storm Protection (BSP)</td><td>ON</td><td>Enables broadcast storm protection (at a maximum of 2000 broadcast packets per second) for each Ethernet port.</td></tr>
<tr><td>OFF</td><td>Disable the broadcast storm protection.</td></tr>
</table>