



# Industrial Unmanaged Ethernet Switch

## User Manual

RPT-1010-2C-T-X6M/RPT-1016-T-X6M/RPT-1018-2C-T-X6M

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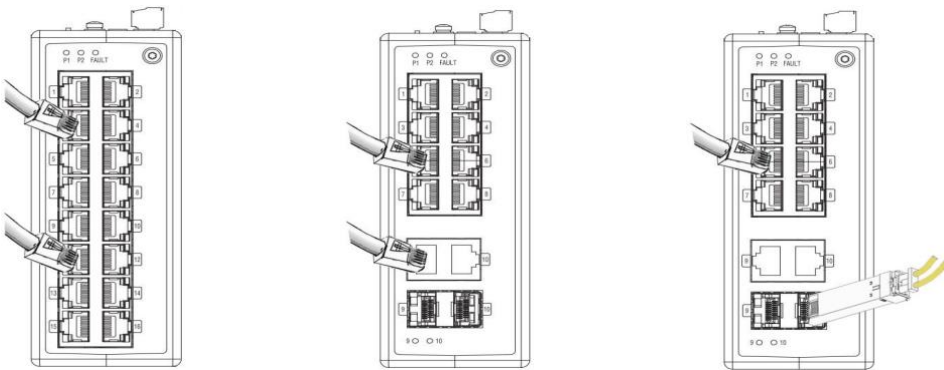
## FEATURES

- **Protocol:**  
IEEE802.3 10/100/1000M
- **Electrical Ports:**  
8 10/100M RJ45 ports, and 2 100/1000 Base(X/T) Combo ports;  
Only 16 10/100M RJ45 ports; 10/100M
- **Input Voltage:**  
12/24/48VDC & 24VAC Class 2
- **Power Consumption:**  
<10W
- **Size:**  
52mm (W) x 140mm (H) x 110mm (D)
- **Weight:**  
<1.2KG
- **Operating Temperature:**  
-40°C~75°C(IP30) or -10°C~60°C(IP40)
- **Humidity:**  
5%~95%, No Condensation

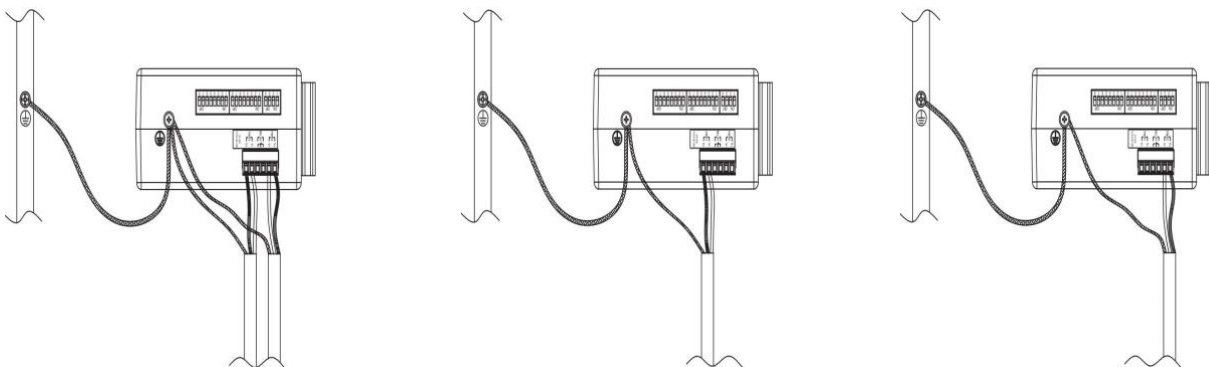
## LEDS

| LED                | State         |          | Description  |
|--------------------|---------------|----------|--|
| Power 1/2 (P1/P2)  | Green         | On       | When power supply of power 1/2 (PWR 1/2) is normal.  |
|                    |               | Off      | When power supply of power 1/2 (PWR 1/2) is abnormal.  |
| Fault              | Red           | On       | If DIP enabled, it means one line of the power supply fails or there is trouble on certain port. |
|                    |               | Off      | If DIP enabled, it means both lines of power supply are normal and all the ports work normally.  |
| Ports (Full 1000M) | Green         | On       | When the port is active and links on 1000 Mbps.  |
|                    |               | Blinking | When the port's data is being transmitted at 1000 Mbps.  |
|                    | Amber         | On       | When the port is active and links on 100/10Mbps.   |
|                    |               | Blinking | When the port's data is being transmitted at 100/10Mbps.   |
|                    | Green / Amber | Off      | When the port is inactive or link down.  |
| Ports (Full 100M)  | 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.  |

## Port Connection Diagram



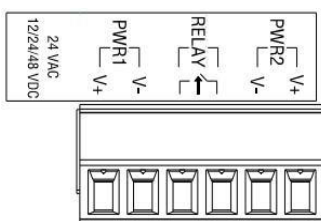
## Power Connection Diagram



[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.

## RELAY



The RELAY is OPEN before power supplied, and it is closed after power supplied and all is OK. The RELAY will be OPEN if: ① one of the power supply fails and the DIP switch is on, OR ② one port is not linked and the DIP switch is on.

## DIP Switch Setting

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

### Settings for Ethernet switches:

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

### Settings for Power Alarm

| DIP Switch | Setting | Description   |
|------------|---------|---|
| PWR        | ON      | Enable the power alarm (If there is trouble on one line of power supply, there is alarm, the FAULT LED light is on and RELAY open). |
|            | OFF     | Disable the power alarm.  |

### Settings for Alarm Buzzer

| DIP Switch | Setting | Description   |
|------------|---------|---|
| ALM        | ON      | Enable the buzzer of alarm (When there is alarm, the buzzer buzzes with sound).   |
|            | OFF     | Disable the buzzer of alarm (there will be no buzzing when there is malfunction). |

### Settings for Port Alarm

| DIP Switch | Setting | Description  |
|------------|---------|--|
| 1-16       | ON      | Enable the port alarm (If the port is not linked, there is alarm, the FAULT LED light is on and RELAY open). |
|            | OFF     | Disable the port alarm.  |