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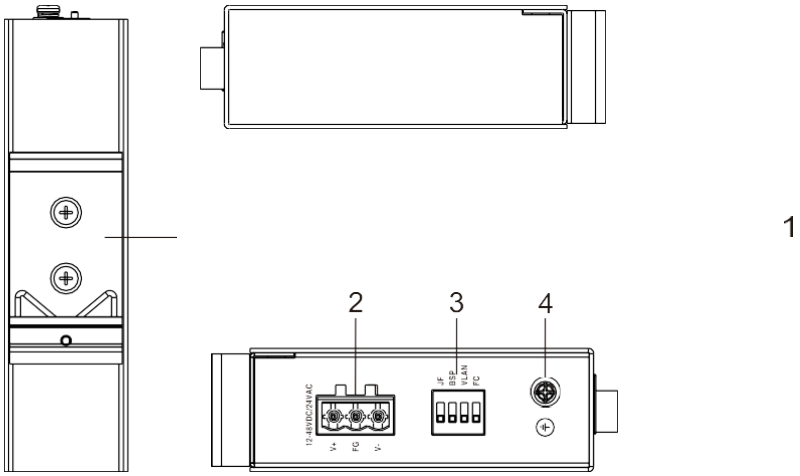
## User Manual for Industrial Media Converter, SC12FE2IS TD

### Product Overview

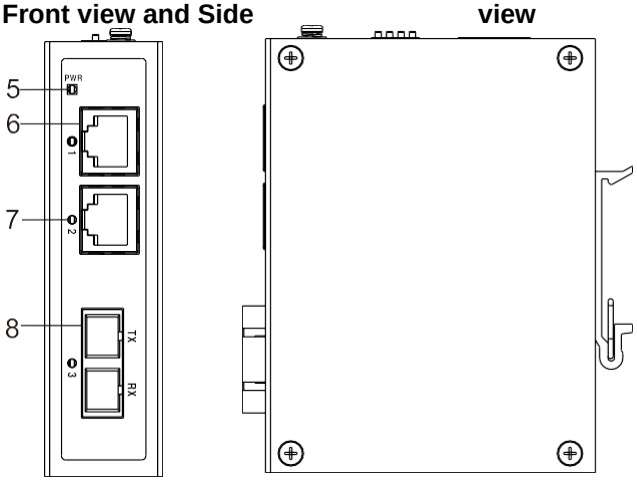
SC12FE2IS TD is a DIN-Rail Industrial Media Converter with 2*100M copper ports + 1*100M fiber port.

### Views

**Rear view, Bottom view and Top view**




**Front view and Side view**




1. DIN-Rail mounting kit
2. Terminal block for power input
3. DIP switch
4. Grounding screw
5. Power input status indicator PWR
6. 10 / 100Base-T(X)100M copper port
7. Interface status indicator 1-3
8. 100Base-FX100M fiber port

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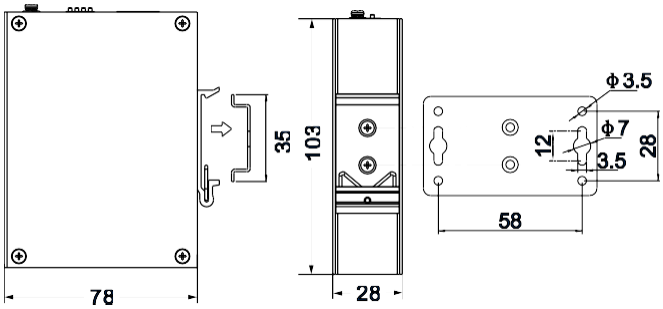
## Mounting Dimension

Unit : mm

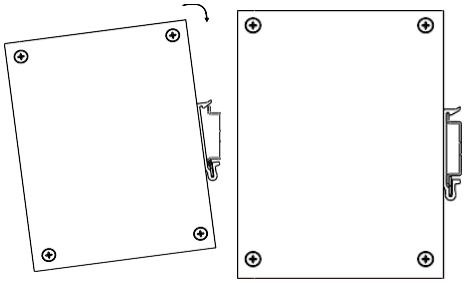



## Caution

- Don't place or install the device in area near there is water or moisture. Keep the relative humidity of the device surrounding between 5% to 95% non condensing.
- Before Power On, confirm the supported power supply specification to avoid over-voltage damaging the device.

## Mounting

The product uses 35mm standard DIN-Rail mounting which is suitable for most industrial scenes. Installation steps are as follows:



Step 1 Check if the DIN-Rail mounting kit is installed firmly.
Step 2 Insert the bottom of DIN-Rail mounting kit (one side with spring support) into DIN-Rail, and then insert the top into DIN-Rail. Insert a little to the bottom, lift upward and then insert to the top.
Step 3 Check and confirm the product is firmly installed on DIN Rail.

## Uninstalling DIN-Rail

Step 1 Power Off the Device.
Step 2 After lift the device upwards lightly, first shift out the top of DIN-Rail mounting kit.
Step 3 Shift out the bottom of DIN-Rail

## Powering the Device

Power ON operation

- Insert the Power supply terminal block into the Converters Power supply interface
- Connect to a stable Power supply source e.g. SMPS.
- Switch On

Power OFF operation

- Remove the Power source.
- Remove the wiring section of terminal block.

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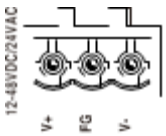
## Power Supply Connection




The device provides 3-pin 5.08 mm pitch power supply input terminal blocks, and supports DC power supply input.
Power supply range : 12 to 48VDC / 24VAC.

## DIP Switch Settings

The device provides 4-pin DIP switch for function setting. DIP switches definition as follows:

| DIP | Definition | Operation |
|---|---|---|
| 1 | Jumbo frame | Set the DIP to ON to enable Jumbo frame function |
| 2 | Broadcast storm suppression | Set the DIP to ON to enable broadcast storm suppression function |
| 3 | VLAN | Set the DIP to ON, the fiber port can communicate with the two Copper ports while two Copper ports cannot talk with each other |
| 4 | Flow control | Set the DIP to ON to enable Flow control function |

## LED Indicator

The device provides LED indicators to monitor the device working status with a comprehensive simplified troubleshooting. The function of each LED is described in the table as below:

| LED | Indicate | Description |
|---|---|---|
| PWR | ON | PWR is connected and running normally |
| | OFF | PWR is disconnected |
| Link / Act (1-3) | ON | The Ethernet interface has established an active network connection |
| | Blinking | The Ethernet interface is in a network activity state |
| | OFF | Ethernet port has not established valid network connection |

## Specification

| **Ports** | |
|---|---|
| 100MCopperPort | 10 / 100Base-T(X),flow control, Full / Half duplex, Auto Negotiation, Auto MDI / MDI-X RJ45 port |
| 100Mfiberport | 100Base-FX fiber port, SC / ST interface |
| Indicator | Power supply indicator, Interface indicator |
| **Switch Property** | |
| Back plane bandwidth | 1G |
| MAC Address Table | 2K |
| **Power supply** | |
| Input power supply | 12 to 48VDC / 24VAC |
| Access terminal block | 3-pin 5.08mm pitch terminal block |
| **Power consumption** | |
| Full-load | 1.5W@24VDC |
| **Working environment** | |
| Working temperature | -40 to 75ºC |
| Storage temperature | -40 to 85ºC |
| Working humidity | 5% to 95%(no condensation) |
| Protection grade | IP40 (aluminum shell) |
| **Reliability** | |
| MTBF | 445156hrs |