



Description

Connection Technology System (CTS) SRC-3002SFP-DO stands out as a robust media converter, designed to operate efficiently within a broad temperature range spanning from -40 to 75°C. Its functionality extends to converting 100/1000Base-X SFP to a 10/100/1000Base-T RJ-45 port, ensuring full compliance with IEEE 802.3, 802.3u, 802.3ab, and 802.3z standards.

In addition to its rugged capabilities, the SRC-3002SFP-DO, despite being an unmanaged media converter, offers users intuitive configurability and monitoring options. This is facilitated through the DIP switch, LED indicators and the digital output (alarm) on its panel. The DIP switch empowers users to control various functions, including Link Alarm, Port Link Fault Alarm, and more.

These user-friendly attributes contribute to the SRC-3002SFP-DO's versatility, transforming it into not just a straightforward product but a comprehensive solution for diverse needs.

SRC-3002SFP-DO

1 x 100/1000Base-X SFP to 1 x 10/100/1000Base-T RJ-45 Rugged Media Converter

Key Features

A prime selection for settings with significant temperature variance

The SRC-3002SFP-DO distinguishes itself from other media converters by offering an expanded temperature range. Capable of functioning between -40 and 75°C, it excels in adapting to environments with varying temperature conditions.

Instantly grasp when link issue occur

To address the constraint wherein unmanaged devices lack the capability to transmit messages to the central server, CTS has introduced the Link Alarm function. This feature promptly notifies network managers of issues as they arise.

3-pin relay output for hardware-based link loss alerts

The SRC-3002SFP-DO includes a 3-pin relay output terminal that can trigger external devices such as buzzers or signal lights when a port link failure is detected. Supporting both normally open (NO) and normally closed (NC) configurations, it provides a simple and effective way to alert users of connection issues through physical signals.

• Lighter weight and better cooling capability

CTS opted for aluminum as a component of the case in the SRC-3002SFP-DO series, enhancing heat dissipation capabilities and reducing overall weight compared to an all-iron construction.

Targeted Applications

• FTTX Metro Ethernet Implementations.

Specification

Interface

RJ-45 Port

- 1 x 10/100/1000Base-T RJ-45

Fiber Port

- 1 x 100/1000Base-X SFP

Terminal Block

 1 x Digital Output (Alarm Relay), Relay output with current carrying capacity of 1 A @ 24 VDC

Standards

- IEEE 802.3 10Base-T
- IEEE 802.3u 100Base-TX/FX
- IEEE 802.3ab 1000Base-T
- IEEE 802.3z 1000Base-X

H/W Specification

- MAC Address Table: 2K
- Non-blocking Switching Fabric: 4Gbps
- Throughput @ 64Bytes: 2.9Mpps
- Jumbo Frame: 9K Bytes
- Packet Buffer: 1Mbit
- Store and Forward Switching Mechanism
- Auto-Cross over for MDI/MDI-X in TP port
- Auto-Negotiation in TP Port
- Full/Half Duplex Mode Operation

Forward/Filter Rate

- 10M: 14,880/14880pps
- 100M: 148,800/148,800pps
- 1000M: 1,488,000/1,488,000pps

LED

- Power, Status,
- TP Link/Act/Speed, F/O Link/Act/Speed

DIP Switch

- Manual/Auto for TP Auto-Negotiation
- TP speed 100/1000Mbps
- Force/Auto Mode for F/O
- F/O speed 100/1000Mbps
- Enable/Disable Link Alarm
- Link Fault Alarm for TP or F/O

Installation Method

- Flat type DIN-rail kit
- Flat type wall-mount kit
- Magnetic-mount kit (optional)
- Slim type DIN-rail kit (optional)
- Slim type wall-mount kit (optional)

Power Requirement

- Power Input: 12~57 VDC
- (2-pin removable terminal block or DC jack)
- Max. Power Consumption: 2.45W (8.36 BTU/h)

Environmental Condition

- Operation: -40°C~75°C
- Storage: -40°C~85°C
- Humidity: 5%~95% RH, Non-Condensing

Dimension & Weight

- Size: 71 x 94 x 26mm (W x D x H)
- Weight: 190g
- Housing: Aluminum(Upper), Iron(Bottom), IP30

Standards and Certifications

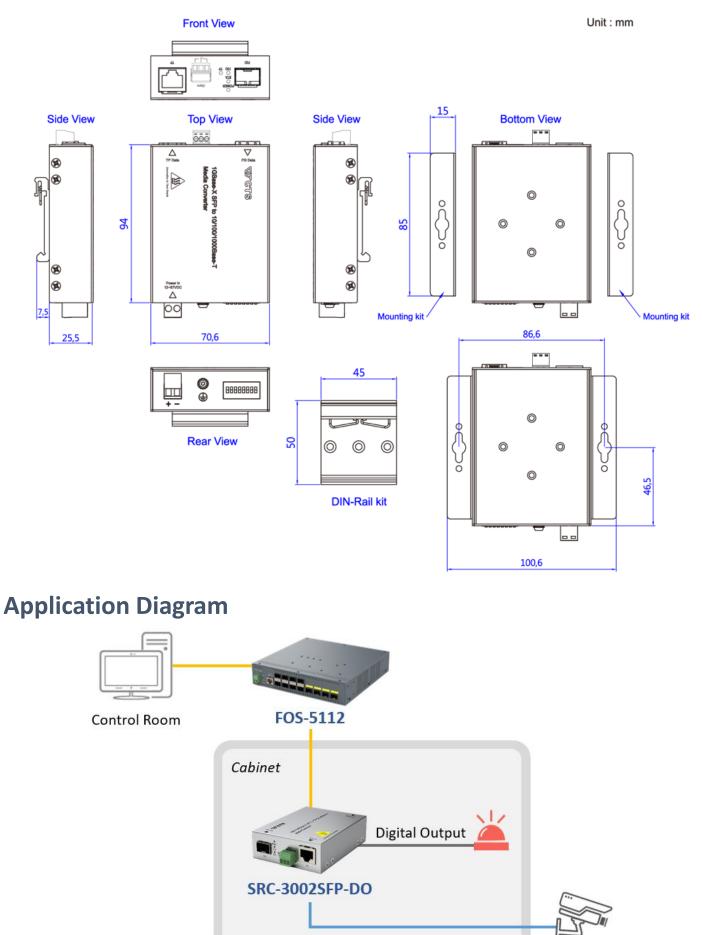
CE/FCC Class A

- Safety: EN/IEC 62368-1
- EMC: EN 55032 / EN 55035
- ESD
- Air Discharge: +/-8kV Contact Discharge: +/-4kV
- EFT
- DC input: +/-0.5kV
- Signal (RJ-45): +/-0.5kV
- Surge Protection DC input: +/-3kV
 - Signal (RJ-45): +/-3kV

UKCA/RCM

RoHS 2.0

Dimension



Order Information

	Fiber Slot			TP Port		
Model	Speed(Mbps)	Туре	Slot	Speed(Mbps)	Port	Support Power Source
SRC-3002SFP-DO	100/1000	SFP	1	10/100/1000	1	1 x 12~57V DC with 2-pin removable terminal block
SRC-3002SFP-DO(DC Jack)	100/1000	SFP	1	10/100/1000	1	1 x 12~57V DC

Note: An adapter/power supply is not included in the SRC-3002SFP-DO series package.

Accessory

SFP-31-D

	Specification						
Model	Speed	Туре	Connector	Distance	Wavelength	Operating Temperature	
SFP-31FC-D	1000Mbps	MM	LC	550M	850nm	-40°C ~ 85°C	
SFP-31FC-(MM-02)-D	1000Mbps	MM	LC	2KM	1310nm	-40°C ~ 85°C	
SFP-31FC(SM-10/20)-D	1000Mbps	SM	LC	10/20KM	1310/1310nm	-40°C ~ 85°C	
SFP-31W2A(SM-10/20)-D 1000Mbps	1000Mbpc	WDM	LC	10/20KM	TX: 1310/1310nm	-40°C ~ 85°C	
	τυυυινισρε				RX: 1550/1550nm		
SFP-31W2B(SM-10/20)-D	1000Mbps	WDM	LC	10/20KM	TX: 1550/1550nm	-40°C ~ 85°C	
					RX: 1310/1310nm		

Installation Kit (Optional)

Model	Mounting Method	Support Model
SRC/CVT Slim Wall Mount Kit	Slim type wall mounting	SRC/CVT Series Media Converter
SRC/CVT Slim Wall+DIN Rail Kit	Slim type wall mounting & DIN-rail	SRC/CVT Series Media Converter
CVT Magnet Kit	Flat Type wall mounting	SRC/CVT Series Media Converter

Accessory

Power Supply

Model	Output Voltage Range	Maximum Output Watt	Operating Temperature
SDR-480-48	48~55V	480W	-25°C ~ 70°C
SDR-240-48	48~55V	240W	-25°C ~ 70°C
SDR-120-48	48~55V	120W	-25°C ~ 70°C
SDR-75-48	48~55V	75W	-25°C ~ 70°C
NDR-480-48	48~55V	480W	-20°C ~ 70°C
NDR-240-48	48~55V	240W	-20°C ~ 70°C
NDR-120-48	48~55V	120W	-20°C ~ 70°C
NDR-75-48	48~55V	75W	-20°C ~ 70°C
MDR-60-48	48~56V	60W	-20°C ~ 70°C
MDR-20-12	10.8~13.2V	20W	-20°C ~ 70°C

NOTE: Please refer to the power supply datasheet for details regarding the operating temperature and derating curve. Subsequently, choose the suitable power supply based on your specific requirements and operating environment.

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Connection Technology Systems (CTS) reserves the right to change specification without prior notice.