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FCC Warning

The SRC-3002SFP and SRC-3002SFP-BT Series converters have been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These standards are designed to provide reasonable protection against harmful interference when these devices are operated in a commercial environment. These devices generate, use, and can radiate radio frequency energy and may cause harmful interference to radio communications unless installed in accordance with this User's Guide. Operation of these devices in a residential area is likely to cause harmful interference which will make the user responsible for the appropriate remedial action at his / her own expense.

CE Mark Warning

These are Class A products. In a domestic environment these products may cause radio interference in which case the user will need to consider adequate preventative methods.

1. Overview

Thank you for purchasing CTS SRC-3002SFP series Media Converter that include SRC-3002SFP and SRC-3002SFP-BT, "Media Converter" is used as an alternative name in this user's guide.

The term SRC series will be referred to the media converter in the following.

Major Features:

- TP Auto-Negotiation
- MDI/MDIX Auto-Crossover
- 9K bytes Jumbo Frame
- Store and Forward switching mechanism
- 2K MAC address
- Link Alarm
- Data-diode
- Up to 90 watts PoE output (SRC-3002SFP-BT only)
- PSE Auto Power Off (SRC-3002SFP-BT only)

2. Checklist

The items listed below should be included in the package:

- Media Converter
- User's Guide
- 1 x Din-rail bracket (already locked on the media converter)
- 1 x Wall mounting kit

Please notify your sales representative for assistance immediately if any item is missing or damaged.

3. Installation

❶	Set the DIP switch according to section four.
❷	Insert the SFP transceiver into the SFP slot.
❸	The picture guide below is for flat installation.
Follow the picture guide to install the media converter flatly by wall mounting or Din-rail.	
(1) Wall mounting	
-Step 1: Remove Din-rail bracket	
-Step 2: Remove 4 screws from housing	
-Step 3: Re-install 4 screws with wall mounting kit	
-Step 4: Mount the media converter on the wall	

❸	(2) Din-rail	
<p>NOTE: Besides the flat installation, we also provide accessories for slim installation, please contact our sales if needed.</p>		
❹	Attach fiber cable from the media converter to the fiber network. The fiber connector must be matched – <u>transmit socket to receive socket</u> .	
❺	Attach a UTP cable from the 10/100/1000BASE-T network to the RJ-45 port on the media converter.	
❻	Connect the power source to the media converter and check that the Power LED lights up. The TP Link/Act/Speed and F/O Link/Act/Speed LEDs will light up when all the cables are properly connected.	
<p>Note: The wire gauge for the terminal block should be 18 AWG or above.</p>		

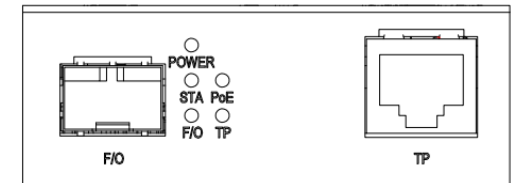


Figure 1. Front Panel of Media converter

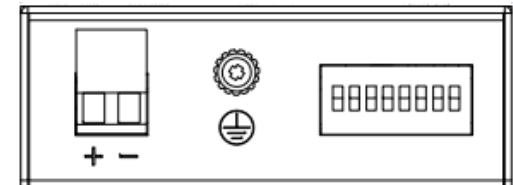


Figure 2. Rear Panel of Media converter

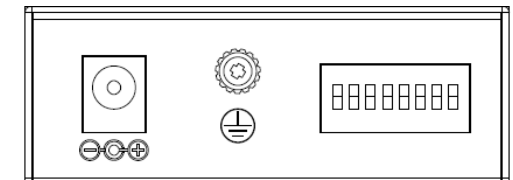


Figure 3. Rear Panel of SRC-3002SFP (DC jack version)

4. DIP SWITCH Setting

The default setting for all PIN is ON.

Pin NO.	Function	OFF / Down	ON / Up
1	TP Auto-Negotiation	Manual	Auto
2	TP Speed	100Mbps	1000Mbps
3	Fiber Mode	Force	Auto
4	Fiber Speed	100Mbps	1000Mbps
5	Link Alarm	Enabled	Disabled
6	Data-diode	Enabled	Disabled
7	Data-diode Direction	Block fiber to TP port direction	Block TP to fiber port direction
8*	PSE Auto Power Off (PAPO)	Enabled	Disabled

NOTE:

- ❶ Please power off the device first when you change DIP switch.
- ❷ Pin 2 can only be activated when Pin 1 is in the OFF position.
- ❸ Pin 4 can only be activated when Pin 3 is in the OFF position.
- ❹ Pin 7 can only be activated when Pin 6 is in the OFF position.
Pin 7 can determine the blocking direction of Data-diode when Pin 6 is in the OFF position.
- ❺ *Pin 8 is dedicated exclusively to SRC-3002SFP-BT.
- ❻ Pin 8 can only be activated when Pin 5 is in the OFF position.
The PAPO function only works as the Link Alarm function is enabled.

5. LED Description

LED	Color	Function
Power	Green	Power is available.
TP Link/Act /Speed	Off	No link is established.
	Green	10 Mbps or 100 Mbps link is established.
	Orange	1000 Mbps link is established.
F/O Link/Act /Speed	Blinking	Data packet is transmitting.
	Off	No link is established.
	Green	100 Mbps link is established.
PoE*	Orange	1000 Mbps link is established.
	Blinking	Data packet is transmitting.
	Off	The port is not delivering PoE.
Status	Green	The port is delivering PoE to the remote PD.
	Blinking	The PoE function encounters issues, such as: the input voltage is too low or too high; the PoE PD output is short-circuited, or the current is exceeding 2A.
Status	Green	Both TP and F/O link are established.
	Orange	TP or F/O link is not established.

* PoE LED is dedicated exclusively to SRC-3002SFP-BT.

6. Technical Specifications

Standards	SRC-3002SFP: IEEE 802.3, 802.3u, 802.3ab, 802.3z SRC-3002SFP-BT: IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.3af, 802.3at, 802.3bt	
Interface	SRC-3002SFP: 1 X 100/1000M SFP Slot 1 X 10/100/1000M RJ-45 connector SRC-3002SFP-BT: 1 X 100/1000M SFP Slot 1 X 10/100/1000M RJ-45 connector with 802.3af/at/bt PoE injector	
LED	Power, Status, TP Link/Act/Speed, F/O Link/Act/Speed, PoE (SRC-3002SFP-BT only)	
Power Input	SRC-3002SFP: DC 12-57V SRC-3002SFP-BT: DC 48-57V	
Max. Power Consumption	SRC-3002SFP: 2.45 watts (8.36BTU/hr) SRC-3002SFP-BT: 102 watts (348BTU/hr)	
Weight	SRC-3002SFP: 190 g SRC-3002SFP-BT: 220 g	
Dimensions	71mm(W)x94mm(D)x26mm(H)	
Temperature	SRC-3002SFP: Operating: -40°~75°C Storage: -40°~85°C SRC-3002SFP-BT: Operating: -20°~60°C Storage: -40°~85°C	
Humidity	5%~95% RH, Non-Condensing	
Certification	FCC Class A, CE	
Media	TP:	EIA/TIA-568 CAT 5e, 1000M
	Fiber:	50/125 or 62.5/125 μ m multi-mode 9/125 or 10/125 μ m single-mode

* Please contact us for further reports and updates.

NOTE: Specifications may change without prior notice.

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SRC-3002SFP

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

SRC-3002SFP-BT

100/1000Base-X SFP to
10/100/1000Base-T RJ-45 with
IEEE 802.3af/at/bt PoE Injector
Rugged Media Converter

User's Guide

Version 1.0