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FCC Warning

The SRC-5102SFP-MG converter has 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-5102SFP-MG Managed Media Converter. In this user's guide, "Media Converter" will be used as an alternative name for SRC-5102SFP-MG.

Major Features:

- TP Auto-Negotiation
- MDI/MDIX Auto-Crossover
- 16K bytes Jumbo Frame
- Store and Forward switching mechanism
- 4K MAC address
- Flow Control
- IP Management via CLI, WEB, SNMP interfaces
- VLAN, QoS, DHCP Snooping
- iProbe Advanced Diagnostics
- Digital Input (Dry Contact)

2. Checklist

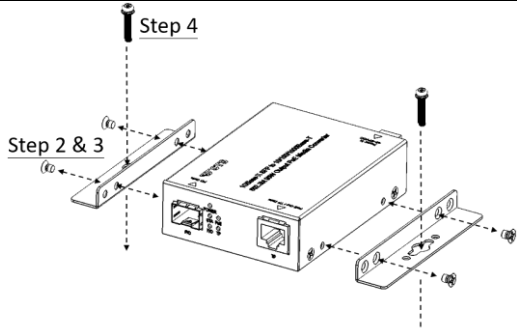
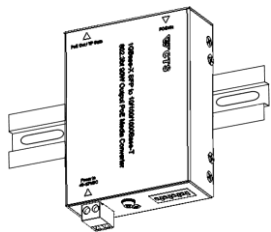
The items listed below should be included in the package:

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

Please contact 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/SFP+ transceiver into the SFP/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. *The following images use the SRC-3002SFP as an example.
	(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  NOTE: Besides the flat installation, we also provide accessories for slim installation, please contact our sales if needed.
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 100M/1G/2.5G/5G/10G BASE-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. Note: (1) The wire gauge for the terminal block should be 18 AWG or above. (2) The DC plug of the power adapter should be OD: 5.5 mm, ID: 2.1 mm, Length: 9.5 mm, and support a minimum output of 8W.
❼	Perform a reset or restart (if needed): 1. Press the reset button for more than 5 seconds until the STA LED lights up in orange, then release it. The system will restart. 2. Press the reset button for more than 10 seconds until the STA LED blinks in orange, then release it. The system will restart with default settings.

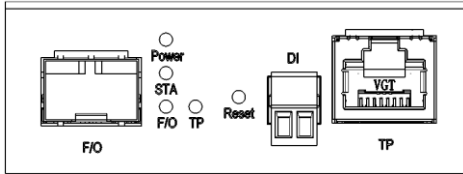


Figure 1. Front Panel of Media converter

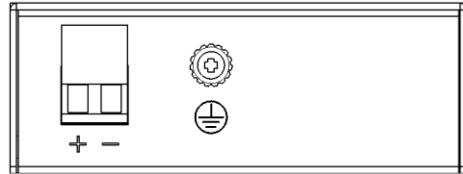


Figure 2. Rear Panel of Media converter

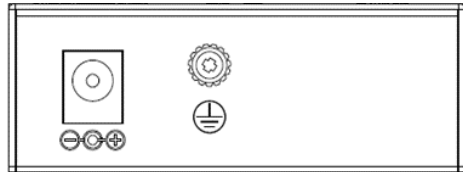


Figure 3. Rear Panel of Media Converter (DC jack version)

4. LED Description

LED	Color	Function
Power	Green	Power is available.
Status	Orange	Lights up when the device is currently booting up. Blinks when the device is resetting to default settings.
	Green	Lights up when the device operates normally.
TP Link/Act /Speed	Off	No link is established.
	Orange	Lights up when a 1Gbps/100Mbps link is established. Blinks when 1Gbps/100Mbps TP traffic is present.
	Blue	Lights up when a 10/5/2.5Gbps link is established. Blinks when 10/5/2.5Gbps TP traffic is present.
F/O Link/Act /Speed	Off	No link is established.
	Orange	Lights up when a 1Gbps link is established. Blinks when 1Gbps F/O traffic is present
	Blue	Lights up when a 10Gbps link is established. Blinks when 10Gbps F/O traffic is present.

5. Technical Specifications

Standards	IEEE 802.3u, 802.3ab, 802.3z, 802.3bz, 802.3an, 802.3ae, 802.3x, 802.1p, 802.1q, 802.1ab
Interface	1 x 10/1G SFP+ Slot 1 x 10G/5G/2.5G/1G/100M RJ-45 connector
LED	Power, Status, TP Link/Act/Speed, F/O Link/Act/Speed
Power Input	12~57 VDC
Power Consumption (Full-load)	Device: < 11 watts (37.5 BTU/hr)
Weight	250 g
Dimensions	71 x 94 x 26mm (W x D x H)
Temperature	Operating: -20°C~60°C Storage: -30°C~70°C
Humidity	5%~90% RH, Non-Condensing
Certification	CE/FCC Class A
Media	TP: EIA/TIA-568 CAT 5e @ 100M, 1G, 2.5G CAT 6A @ 5G, 10G
	Fiber: 50/125 or 62.5/125μm multi-mode 9/125 or 10/125μm single-mode

NOTE: Specifications may change without prior notice. Please contact us for further reports and updates.

6. Digital Input Configuration

A voltage-free input used to detect open/close status. The trigger logic (Normally Open / Normally Closed) can be configured via the management interface.

Wiring instructions:

①	Loosen the wire-clamping screws on the Digital Input terminals using a flat-head screwdriver.	
②	Insert the wires into the terminal openings.	
③	Tighten the screws to secure the wires in place.	

Contact Information

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SRC-5102SFP-MG

10/1GBase-X SFP to
10/5/2.5/1G/100M Base-T RJ-45
Managed Rugged Media Converter

User's Guide

Version 1.0