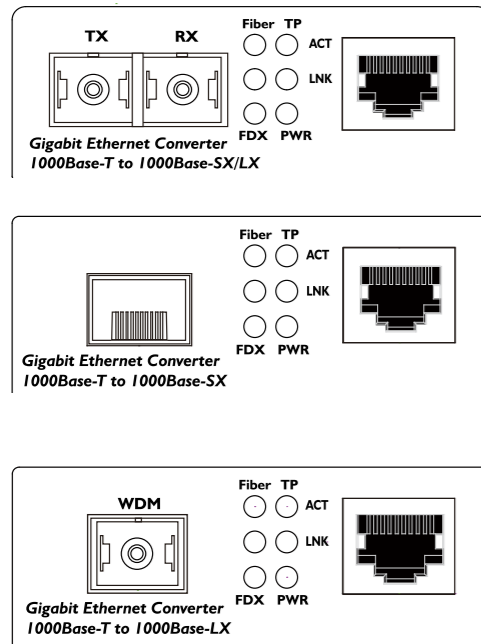


3. PRODUCT OUTLOOK

Right View



Left: Fiber-optic connector, Right: TP connector.
Three LED indicators per TP, fiber port.

4. LED INDICATION

LED	Color	Description
Fiber / ACT	Green	Lit: when the fiber port run in fix 1000Mbps and packet is traveling.
TP / ACT	Green	Lit: when the packet is traveling.
Fiber / LNK	Green	Lit: when fiber connection is good.
TP / LNK	Green	Lit: when TP connection is good.
FDX	Green	Lit: when the TP port runs in 1000Mbps Full duplex.
PWR	Green	Lit: when +5VDC power detected.

SFP Model

- Connect the fiber cable. Attach the duplex LC connector on the network cable into the SFP transceiver.
- Attach fiber cable from the media converter to the fiber network. TX, RX must be paired at both ends.
- Connect the 5VDC power adapter to the media converter and verify that the Power LED is lit.
- Turn on the power of the device/station; the PWR LEDs should light when all cables are attached.

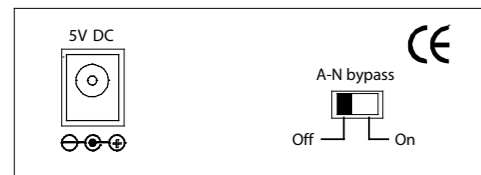
Note It's recommended that Antaira SFP Modules be used in the Antaira converters. If you insert a SFP transceiver that is not supported, the converter will not recognize it.

7. POWER INFORMATION

The power jack of the FCU-2702Sx is a 2.5mm in the central post and required +5VDC power input. It will conform to the bundled AC-DC adapter and Antaira's Media Chassis. Should you have problems with the power connection, please contact your local sales representative.

Please keep the AC-DC adapter as a spare part when your FCU-2702Sx is installed to a Media Chassis.

Rear View



One DC jack for DC power input and DIP switch to disable/enable Auto by pass function.

Note Please note that if the converter is connected with a switch that supports auto negotiation, please enable the A-N bypass function. If both devices are converters, please disable the A-N bypass function.

5. INSTALLING THE CONVERTER

Stand-alone Installation:

To install the FCU-2702Sx stand-alone, on a desktop or shelf, simply follow the steps below:

- Turn off the power of the device/station in the network to which the FCU-2702Sx will be attached.
- Ensure that there is no activity on the network.
- Attach fiber cable from the FCU-2702Sx to the fiber network. TX, RX must be paired at both ends.
- Connect the 5VDC power adapter to the FCU-2702Sx and verify that the Power LED is lit.
- Turn on the power of the device/station; the PWR LEDs should light when all cables are attached.

Note To prevent from optic acceptor malfunction, check both wires / transmitter before powering on the converter.

6. DUPLEX MODE SUPPORT

The FCU-2702Sx is a one-channel media conversion between 1000Base-T and 1000Base-SX/LX/LX WDM.. The 1000Base-T port can work under Auto-negotiation and forced 1000Mbps full duplex mode. The 1000Base-SX/LX/LX WDM fiber port only works at forced 1000Mbps full duplex mode.

Note The fiber interface does not support Auto-negotiation and cannot work with 1000Base-SX/LX interface that cannot be configured to forced 1000Mbps full duplex.

8. CABLE CONNECTION PARAMETER

The wiring details are as below:


Cables:

Standard	Fiber Type	Cable Specification
1000Base-SX (850nm)	Multi-mode	50/125µm or 62.5/125µm
1000Base-LX (1310nm)	Multi-mode	50/125µm or 62.5/125µm
	Single-mode	9/125µm

Wiring Distances:

Standard	Fiber	Diameter (micron)	Model Bandwidth (MHz * km)	Max. Distance (meters)
1000Base-SX	MM	62.5	100	220
		62.5	200	275
		50	400	500
		50	500	550
1000Base-LX	MM	62.5	5	550
		50	4	
		50	5	
	SM	9	N/A	5000*

EMI Compatibility:	FCC Class A, CE Certification Class A
Temperature:	Storage: -10°C ~ 70°C Operating: 0°C ~ 50°C
Humidity:	5% ~ 90% non-condensing

 **Note**
When connecting to Gigabit Ethernet products, please refer to the device's Technical Manual.



1000Mbps
FCU-27025C Series
**1000Base-T to 1000Base-SX/LX
Media Converter**



User's Manual

9. PRODUCT SPECIFICATION

The FCU-2702Sx comes with the following standard features:

Standards:	IEEE 802.3ab 1000Base-T IEEE 802.3z 1000Base-SX/LX
Duplex Mode:	Full Duplex Mode
Transfer rate	1000Mbps
Media Interface:	RJ-45, SC, LC, single SC (WDM)
LED indicators:	PWR, FDX, Fiber/LNK/ACT, TP/LNK/ACT
Cable	1000Base-T: 4 pair Cat. 5, EIA/TIA-568 100-ohm screened twisted-pair (STP), up to 100m 1000Base-SX: 62.5/125µm multi-mode fiber optic cable, up to 220m 50/125µm multi-mode fiber optic cable, up to 550m 1000Base-LX: 9/125µm single-mode fiber optic cable, up to 10km/15/60km
Dimensions	26 x 70 x 97mm (H x W x D)
Power	External power adaptor 5V 2A max.



Energy Saving Note of the Device
This power required device does not support Stand by mode operation. For energy saving, please remove the DC-plug or push the hardware Power Switch to OFF position to disconnect the device from the power circuit. Without remove the DC-plug or switch off the device, the device will still consuming power from the power circuit. In the view of Saving the Energy and reduce the unnecessary power consuming, it is strongly suggested to switch off or remove the DC-plug for the device if this device is not intended to be active.

1. PRODUCT FEATURES


- Complies with IEEE 802.3ab 1000Base-T, IEEE 802.3z 1000Base-SX/LX Ethernet standard
- Full-duplex supports for TP and fiber port
- Auto-negotiation on 1000Base-T port
- Auto-MDI/MDIX on TP port
- LED indicators for simple diagnostics and management
- Provides DIP switch to disable/enable auto-negotiation by-pass function
- Compact in size, easy installation
- Can be installed in Antaira's Media Converter Chassis

2. CHECKLIST

Your FCU-2702Sx package should contain the following items:

- The Gigabit Ethernet Converter
- AC-DC Power Adapter (Output: 5VDC, 2A max.)
- This user's manual

If any items are missing or damaged, please consult the dealer from which you purchased your Gigabit Ethernet Converter.

 **Note**
WDM models has one vacant SFP module slot. The mini GBIC SFP module is not bundled with the package