



# Antaira Technologies

## FCN-3112 Series

1010/100/1000TX to 1000SX SNMP Managed Media Converter

## Quick Installation Guide

Version 1.0  
(October 2018)



Tel: 1-844-268-2472  
Fax: 1-714-671-9944  
www.antaira.com

### Package Check List

The package contains the following items:

- 1 – Quick installation guide
- 1 – FCN-3112 Series media converter
- 1 – 5 volt power supply
- 1 – CD

### Front Panel Layout

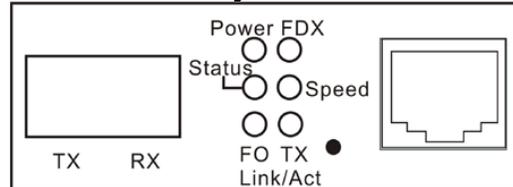


Figure 1. Media Converter Dual-Fiber Front Panel

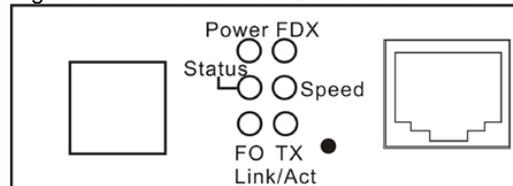


Figure 2. Media Converter Single-Fiber & SFP Front Panel

### Back Panel View



### Product Overview

The media converter series is designed to meet the increasing needs for Gigabit network deployment and is able to extend a copper-based Gigabit network via fiber cable to a maximum distance of up to 80KM.

The media converter series is fully compliant with IEEE 802.3, 802.3u, 802.3ab & 802.3z standards. It can be installed into a Converter RACK. The installation and operation procedures are simple and straightforward. Operation status can be locally monitored through a set of diagnostic LED indicators located in the front panel.

- 10/100/1000Base-T to 1000BASE-X Converter
- Standard: IEEE 802.3, 802.3u, 802.3ab, and 802.3z
- Interface: 1 x RJ-45 LAN connector
- 1 x SC connector or 1 x SFP slot
- 1 x Diag. button
- Auto-Negotiation in TX port

- MDI/MDIX Auto-Crossover supported
- LED: Power, FDX, Status, Speed, FO Link/Act, TX Link/Act
- Plug-and-Play installation
- Support Link Alarm
- Support Jumbo Frame 9K bytes (under 10,100,1000Mbps)
- Support Selectable ISP Ethernet Tag Type
- Q-in-Q Double Tag configuration
- Support DHCP Client
- Support SNMP / Web Managed interface
- Support SNMP v1 and v2c
- Support HTTP Firmware Upgrade
- Support Power Down Trap Management

### LED Indicators

LED	Color	Description	
		State	Description
Power	Green	On	Power is active
		Off	Power is inactive
FDX	Green	On	Copper connection is in full duplex
		Off	Copper connection is not in full duplex
Status	Amber/Green	Amber	Lit when TP or FO link is down. Blink when diagnostic testing has failed.
		Green	Lit when TP and FO link is up. Blink when Loopback test is being performed.
Speed	Amber/Green	Amber	Lit when TP works in 1000M.
		Green	Lit when TP works in 100M. Not lit when TP works in 10M or is not linked.
FO (Link/Act)	Amber/Green	Amber	Blink when fiber or copper link is down in Link Alarm Enabled mode
		Green	Lit when fiber cable connection with the remote device is good. Blink when FO traffic is present
TX (Link Act)	Amber/Green	Amber	Blink when fiber or copper link is down in Link Alarm enabled mode
		Green	Lit when TX cable connection with the remote device is good. Blink when TP traffic is present

### DIP Switch Settings

Pin NO. & Button	Function	Off	On
1	TX Auto-Negotiation	Disable	Enable
2	Manual TX Data Rate 10M/100M	10M	100M
3	Manual TX Data Rate 1000M	10M or 100M	1000M
4	Flow Control	Disable	Enable
5	Fiber Auto-Negotiation	Force	Enable
6	Reserved	Always off!!!	
7	Link Alarm	Disable	Enable
8	TP Configuration	From S/W	From DIP
Diag. Button	Press once for Loopback test. Press for 10 seconds to restore factory default settings.		

## Technical Specifications

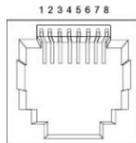
Standards:	IEEE 802.3, 802.3u, 802.3ab, 802.3z
Interface:	1 x RJ-45 LAN connector 1 x SC connector or SFP slot 1 x Diag. button
Operation LED:	Power, FDX, Status, Speed, FO/Link Act, TX/Link Act
Power:	I/P AC 100-240V O/P DC 5V, 1.6A
Power Consumption:	3.4W
Shipping Weight:	0.6KG
Dimensions:	71mm(W)X94mm(D)X26mm(H)
Temperature:	Operating: 0~50 C
Storage:	-20° ~60° C
Humidity:	5%~90% RH
Emission:	Electrical: UL, CSA
EMI:	FCC Class A, CE
*Please contact us for further reports and updates.	
Media:	
TP	EIA/TIA-568 CAT 5e, 1000M
Fiber	50/125, 62.5/125um multi-mode fiber 9/125, 10/125um single-mode fiber

## Ethernet Port

### RJ45 Ports

Please follow the wiring pin assignment table below for Ethernet port installation.

RJ45 Ethernet Port Pin Outs				
Pins	T568A Color	T568B Color	10Base-T, 100Base-TX	1000Base-T(X)
Pin 1	white/green stripe	white/orange stripe	Rx+	TP0+
Pin 2	green solid	orange solid	Rx-	TP0-
Pin 3	white/orange stripe	white/green stripe	Tx+	TP1+
Pin 4	blue solid	blue solid	unused	TP2+
Pin 5	white/blue stripe	white/blue stripe	unused	TP2-
Pin 6	orange solid	green solid	Tx-	TP1-
Pin 7	white/brown stripe	white/brown stripe	unused	TP3+
Pin 8	brown solid	brown solid	unused	TP3-



## FCC Warning

The Media Converter Series 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 that 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.

This is a lead-free and RoHS-compliant product.

## Field Maintenance and Service

- If the device requires servicing of any kind, the user is required to disconnect and remove it from its mounting. The initial installation should be done in a way that makes this as convenient as possible.
- Voltage/power lines should be properly insulated as well as other cables. Be careful when handling them so as to not trip over.
- Do not under any circumstance insert foreign objects of any kind into the heat dissipation holes located in the different faces of the device. This may not only harm the internal layout, but might cause harm to user as well.
- Do not under any circumstance open the device for any reason. Please contact your dealer for any repair needed or follow the instructions within the manual.

## Warranty Policy

### Warranty Conditions

Products supplied by Antaira Technologies are covered in this warranty for sub-standard performance or defective workmanship. The warranty is not, however, extended to goods damaged in the following circumstances:

- Excessive forces or impacts
- War or an Act of God: wind storm, fire, flood, electric shock, earthquake
- Use of unqualified power supply, connectors, or unauthorized parts/kits
- Replacement with unauthorized parts

### RMA and Shipping Costs Reimbursement

Customers shall always obtain an authorized "RMA" number from Antaira before shipping the goods for repair or replacement.

- Within the warranty period (based on the invoice date), all parts and labor are free of charge to the customers.
- Customers are responsible for the cost of parts and labor, if the products are out of warranty.

- For RMA service, customers are responsible for the shipping expense for shipping the RMA unit(s) to Antaira. Antaira is responsible for the shipping expense via a ground service for the return repair/replace unit(s) back to customers.

### Limited Liability

Antaira would not be held responsible for any consequential losses from using Antaira's product.

### Warranty Period

5-Year Warranty

### Antaira's Customer Service and Support

- Antaira's Technical Service & Support Centers:
  - + 844-268-2472 (Antaira US Headquarter)
  - + 48-22-862-88-81 (Antaira Europe Office)
  - + 886-2-2218-9733 (Antaira Asia Office)
- Antaira's Web Sites & Repair/Support Emails:
  - [www.antaira.com](http://www.antaira.com) / [support@antaira.com](mailto:support@antaira.com)
  - [www.antaira.eu](http://www.antaira.eu) / [info@antaira.eu](mailto:info@antaira.eu)
  - [www.antaira.com.tw](http://www.antaira.com.tw) / [info@antaira.com.tw](mailto:info@antaira.com.tw)

\*Any changes will be announced on the Antaira website.