



Quick Installation Guide

Smart Managed Media Converter 6003GX/6003GX-POE

www.avcomm.us

• Overview

6003GX/6003GX-PoE are industrial L2 smart managed media converter. 6003GX provides 3-port full gigabit Ethernet including 2-port Gigabit RJ45 and 1-port 100/1000BaseSFP. 6003GX-PoE provides 3-port full gigabit Ethernet including 2-port Gigabit RJ45(1*PoE) and 1-port 100/1000BaseSFP. Media Converter with lite management – SSH/TELNET. It support IEEE 802.3ah ethernet OAM, link fault pass-through, alarm contact (alarm relay) and PoE (IEEE802.3 af/at).

Model Name	6003GX	6003GX-POE
User Port 10/100/1000 BaseT(X)	1	1
Manage Port 10/100/1000BaseT(X)	1	1
100/1000BaseSFP	1	1
PoE (30W)	-	✓

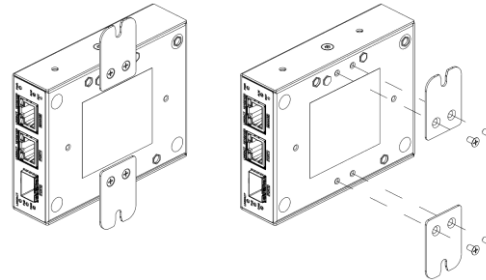
• Package Checklist

- 1 x Product Unit
- 1 x Silica gel
- 1 x Quick Installation Guide
- 4x Foot pad
- 4 x Screw (M3x5L FLAT head for wall mount)
- 1 x Cable tie
- 2 x Wall mounting bracket

• Installation

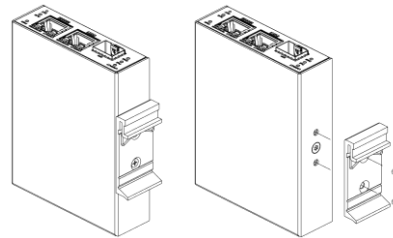
Wall mounting

Align with the wall-mount plates at the bottom of media converter. Then screw the wall-mount plate with the plates and screws.



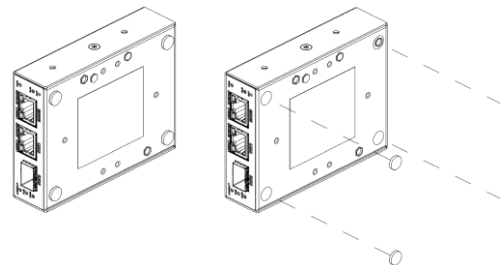
Din Rail Mounting

Two wall mounting plates are installed at the left and right side of the switch. Use the two hook holes at the corners of each wall mounting plate or the middle hole to hang the switch on the wall then screw tightly.



Foot Pad

Align with the foot pad at the corner of bottom side of media converter. Then attach the foot pad on the media converter.

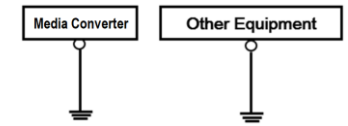


Grounding

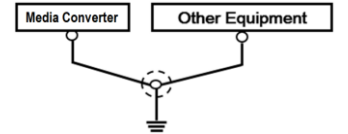
Grounding screw is located at the rear side of media converter. Please check carefully the wiring ensure the FG connection.



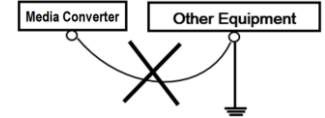
1. Exclusive Grounding (Best)



2. Common Grounding (OK)



3. Common Grounding (Incorrect)



Power Connecting

The media converter can be powered from redundant power. For Non-PoE model, wire the DC12-48V power supply. For PoE model, wire the DC54V power supply.

Reboot

To reboot the media converter, press RESET button using a pin.

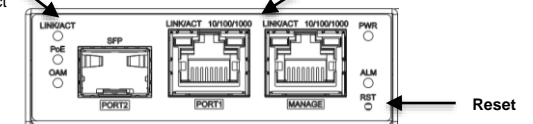


• Appearance

System LED

- Power
- Link/Act
- Alarm
- POE
- OAM

Front View

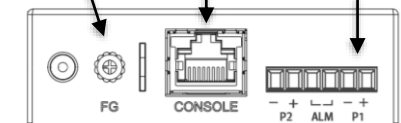


- 3-port Full Gigabit Ethernet
- 2-port 10/100/1000M RJ45
- 1-port 100/1000M SFP

Grounding

Console port

- Power Connector
- Dual VDC power input 12-48VDC (54VDC for POE)



Rear View

· Interface

Ethernet Interface Connecting (Fiber, SFP)

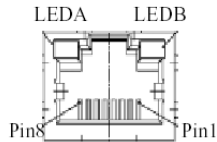
For a 1000 Mbps fiber port available, please use the mini-GBIC SFP. These accept plug in fiber transceivers that typically have an LC style connector. They are available with multimode, single mode, long-haul or special-application transceivers.

Ethernet Interface Connecting (RJ45 Ethernet)

Connecting the Ethernet interface via RJ45:

- To connect to a PC, use a straight-through or a cross-over Ethernet cable.
- To connect the media converter to an Ethernet device, use UTP (Unshielded Twisted Pair) or STP (Shielded Twisted Pair) Ethernet cables.

The pin assignment of RJ-45 connector is shown in the following figure and table.

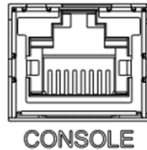


Pin	Assignment
1,2	T/RxA+,T/RxA-
3,6	T/RxB+,T/RxB-
4,5	T/RxC+,T/RxC-
7,8	T/RxD+,T/RxD-

Console Connection

The Console port is for local management by using a terminal emulator or a computer with terminal emulation software.

- DB9 connector connect to computer COM port
- Baud rate: 9600bps



To connect the host PC to the console port, a RJ45 (male) connector-to-RS232 DB9 (female) connector cable is required. The RJ45 connector of the cable is connected to the CID port of media converter; the DB9 connector of the cable is connected to the PC COM port. The pin assignment of the console cable is shown below:

Pin No	Signal Name
1	CTS
2	DTR
3	TXD
4	GND
5	GND
6	RXD
7	DSR
8	RTS

· LED Indication

LED Description	Indicator/Color	Condition
PWR	On Green	Power is supplied.
	Off	No power is supplied.
OAM	On Red	Remote device alarm is detected
	Off	Remote Alarm State release.
Alarm	On Red	Lights during rebooting or device has alarm state.
	Off	Alarm State release.
Management Port Link/Act	On Green	Ethernet is link up.
	Flashing Green	Frames are transmitted/received.
	Off	Ethernet is link down.
Management Port Speed	On Green	Link up at 1000Mbps.
	Off	Link up at 10/100Mbps.
Port1 Link/Act	On Green	Ethernet is link up.
	Flashing Green	Frames are transmitted/received.
	Off	Ethernet is link down.
Port1 SPEED	On Green	Link up at 1000Mbps.
	Off	Link up at 10/100Mbps.
Port2 Link/Act	On Green	Ethernet is link up.
	Flashing Green	Ethernet link up and traffic is detected.
	Off	Ethernet is link down.
PoE (For 6003GX-POE Only)	On Green	PoE power is running in normal way.
	On Amber	PoE abnormal event is detected.
	Off	No PoE power supply.

· Safety Precautions

When a connector is removed during installation, testing, or servicing, or when an energized fiber is broken, a risk of ocular exposure to optical energy that may be potentially hazardous occurs, depending on the laser output power.

The primary hazards of exposure to laser radiation from an optical-fiber communication system are:

- Damage to the eye by accidental exposure to a beam emitted by a laser source.
- Damage to the eye from viewing a connector attached to a broken fiber or an energized fiber.

· Management

Connect & Log In the Device

- Connecting to media converter console port
- Login with default account and password.
Username / Password: admin / none

TELNET/SSH & Change IP Address

- PC connect to media converter Ethernet port
- Key-in the default IP address 192.0.2.1 under Telnet/SSH tool.
- Login with default account and password.
Username / Password: admin / none

· Support

At AVCOMM, you can use the online service forms to **request the support**. The submitted forms are stored in server for AVCOMM team member to assign tasks and monitor the status of your service. Please feel free to write to info@avcomm.us if you encounter any problems.

· Warranty

5-year Global warranties are available for AVCOMM products assuring our customers that the products shall remain free from defects in workmanship or materials and conform in all material respects to AVCOMM specifications, or Purchaser's supplied and accepted specifications. The warranty is limited to the repair and/or replacement, at AVCOMM' sole discretion, of the defective product during its warranty period. The customer must obtain a **Return Merchandise Authorization (RMA)** approval code prior to returning the defective Product to AVCOMM for service. The customer agrees to prepay shipping charges, to use the original shipping container or equivalent, and to ensure the Product or assume the risk of loss or damage in transit. Repaired or replaced products are warranted for ninety (90) days from the date of repair or replacement, or for the remainder of the original product's warranty period, whichever is longer.

· Disclaimer

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Defects, malfunctions, or failures of the warranted Product(s) caused by damage resulting from unforeseeable incidents (such as lightings, floods, fire, etc.), environmental and atmospheric disturbances, other external forces such as power line disturbances and surge, host computer malfunction and virus, incorrect power input, or incorrect cabling, incorrect grounding and damages caused by misuse, abuse and unauthorized alteration or repair are not warranted.