Quick Installation Guide

8008TX
Industrial 8G L2+/L3
Managed Ethernet Switch

www.avcomm.us

· Overview

The new 8008TX is full Gigabit Managed Switch with Layer 2+ functions. The is designed for industrial applications requiring high-speed and secure fiber communications such as industrial automation, road traffic control, etc. The switch is equipped with 8-port 10/100/1000Base-T RJ-45 connectivity. These switches provide reliable network with high performance. It supports critical cyber security features that meet IEC62443-4-2 criteria. Advanced management and redundancy features guarantee the fastest network recovery, zero packet loss data transmission, and high level of network protection against the hackers' attacks. Besides, for 8008TX, it has a rugged design compliant with heavy industrial and railway roadside standard.

	8008TX
10/100/1000Base-T	8
Power input	24VDC (10~60VDC)

· Package Checklist

- 1 x Product Unit (Without SFP transceiver)
- 2 x 4-pin Removable Terminal Connector
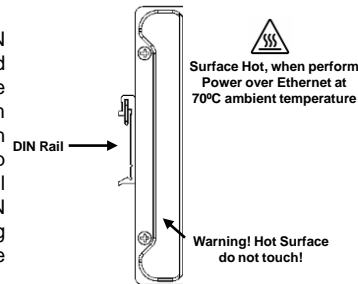- 1 x Din Clip
- 1 x Quick Installation Guide

Optional Accessory (Please refer to the Datasheet for details):
- RS232 Console Cable
- Wall-mounting kit with 2 plates and 8 screws

· Installation

DIN Rail mount
To mount the switch on the DIN Rail track, insert the upper end of the DIN-Rail clip into the back of the DIN-Rail track from its upper side and lightly push the bottom of the DIN-Rail clip into the track. The DIN Rail should comply with DIN EN50022 standard. Using wrong DIN rail may cause unsafe installation.

DIN Rail →

Surface Hot, when perform Power over Ethernet at 70ºC ambient temperature

Warning! Hot Surface do not touch!

Grounding Screw
For avoiding system damage by noise or electric shock, establish a direct connection between the grounding screw and the grounding surface prior to connecting devices.
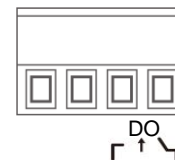
Grounding Screw
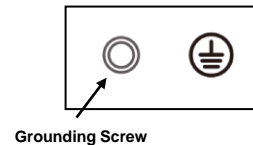
Wiring the Power Input
1) Insert the positive and negative wires into the V+ and V- contact on the terminal block connector.
2) Tighten screws when the wire is connected.
3) Connect the power wires to suitable DC Switching type power supply.

P1   P2
+ - + -
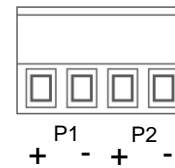
Wiring the Relay Output
The relay output of the 2-pin terminal block connector are used to detect user-configured events. The two wires attached to the fault contacts form a close circuit when a user-configured event is triggered. If a user-configured event does not occur, the fault circuit remains opened.
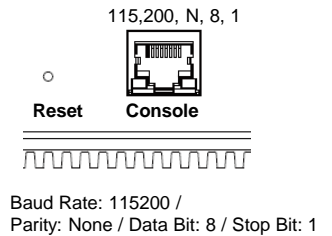
DO

Wiring the Digital Input
To wire the DI on the Terminal block, loosen screws by screwdriver on the terminal block connector, insert the positive and negative wires into the V+ and V- contact and then tighten screws after the DI wire is connected.
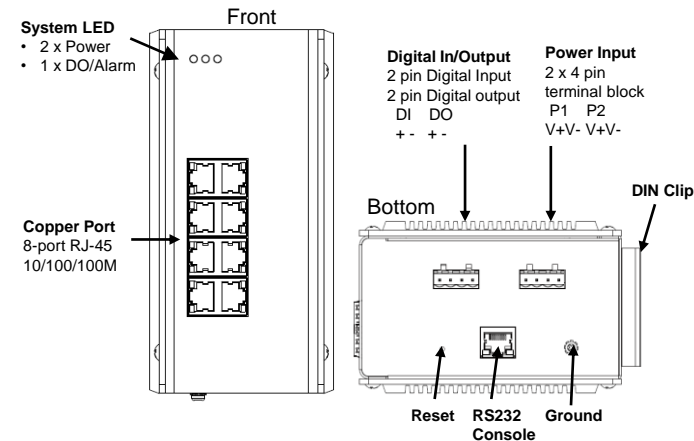
DI
+ -
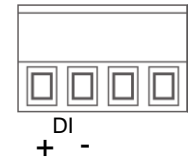
Console/Reset Port
The switch provide Reset and RS232 console for out of band configuration. The default baud rate setting is 115,200, N, 8, 1. Reset button allows you to reset switch or reload to factory default (>7 sec).
For further configurations, please refer to User Manual.

115,200, N, 8, 1

Reset   Console

Baud Rate: 115200 /
Parity: None / Data Bit: 8 / Stop Bit: 1

· Appearance

System LED
- 2 x Power
- 1 x DO/Alarm

Front

Digital In/Output
2 pin Digital Input
2 pin Digital output
DI   DO
+ - + -

Power Input
2 x 4 pin terminal block
P1   P2
V+V- V+V-

Copper Port
8-port RJ-45
10/100/100M

Bottom

DIN Clip

Reset   RS232 Console   Ground

· System LED Indication

LED	Status	Description
PWR (P1/P2)	Green On	DC-IN Power is On
	Off	No Power in DC-IN
Alarm (DO)	Red On	Any failures in port link, ping, power, DO and DI State by SW control
	Off	No failure occurs

· Port LED Indication

8008TX
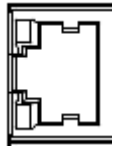
RJ45

LED	Status	Description
RJ45 Port	Green On	Links established
	Green Blinking	Packets transmitting/receiving
	Green Off	Link is inactive
	Amber On	Link Speed 1000M
	Amber Off	Link Speed 100M
SFP Port	Green On	Links established
	Green Blinking	Packets transmitting/receiving
	Green Off	Link is inactive
	Amber On	Link Speed 1000M
	Amber Off	Link Speed 100M

· Safety Precautions

➢ Keep DC power off before connecting to the terminal block connectors and ensure all connections are secure established.
➢ Do make sure that models connect to the corresponding supply voltage. The device is to be supplied by Limited Power Supply. The relay contact supports 0.5 A current, DC 24V.
➢ The DIN Rail should comply with DIN EN50022 standard. Using wrong DIN rail may cause unsafe installation.
➢ **Do not touch the surface of the switch while it is performing in the high temperature environment!**

· Management

This device supports both in-band and out-of-band network management. The user can either configure the device through the user friendly Web/HTTPS management or remotely manage the device through the network by console management or Telnet/SSH.

1. ***Web management***: Before start, confirm that device is properly connected in the network and that each PC in this network can access the router through the web browser (Google Chrome, Internet Explorer, Mozilla Firefox).
   • Type http://IP_address in the address bar (Default IP address is **http://192.168.10.1/**)
   • Enter the username and password in Login screen and click Login. The default username and password are **admin**.
   • You are required to change your password at first login. the welcome page of the web-based management interface will pop up when password is changed.
   • On the left side listed software features, and on the right side are available settings.

◆ To link with the device, please make sure that the IP Address of the PC is located in the same subnet (**192.168.10.x**).

2. ***Console management*** *(using RS232 Port)*:
   • Connect console cable between your PC and the device.
   • Start -> Program -> Accessories -> Communication -> Hyper Terminal.
   • Give a name to a new console connection.
   • Choose the COM name and select correct serial settings: Baud Rate: 115200 / Parity: None / Data Bit: 8 / Stop Bit: 1
   • After connected, Key in the **New** user name and password in login screen while first Login. (The default user name and password in elder firmware is *admin/admin*. Try this while you don't see New user name/password prompt while first login.)
   • Follow the User Manual to configure the software features.

3. ***Telnet/SSH management***: The router can be connected by Telnet and the command-lines. Steps to open Telnet connection to the router are as follow:
   • Start -> Open Command prompt ->Enter
   • Type the Telnet 192.168.10.1 (or the IP address of the switch). And then press Enter.

SSH (Secure Shell)
The router supports SSH console and can be connected via command-line interface access remotely. SSH connection can secure all the configuration commands that sent to the switch.

SSH Client
There are many free, sharewares, trials or charged SSH clients you can find on the internet.

◆ **For further feature configurations, please refer to User Manual.**

· Support

· Warranty

5-year Global warranty 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 purchasers 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 package 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.