Quick Installation Guide

7024GX12
Industrial Ethernet Switch

www.avcomm.us

· Overview

7024GX12 is built for high speed and traffic application for Industrial network, which backplane bandwidth is up to 52Gbps. Its high density of interface brings 24 ports, including 12 SPF for fiber ports, with still DIN-Rail installation.

Based on patented A-Ring® Loop Protection technology, its hardware-based algorithm ensures less than 5ms self-recovery time of every node and less than 50ms self-recovery time of the network.

The fan-less design comes with an isolated redundant power supply to increase system reliability and the availability of trunk network .

By unique extended industrial-grade design and technology, it is suitable for various harsh environments and outdoor applications.

	7024GX12
10/100/1000Base-T	12
100/1000 BaseSFP	12
Power input	9.6~60 VDC

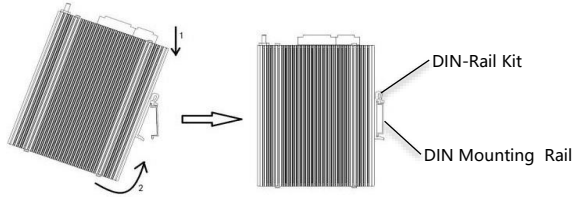
· Package Checklist

- 1 x Product Unit
- 1 x Quick Installation Guide
- Console Cable

· Installation

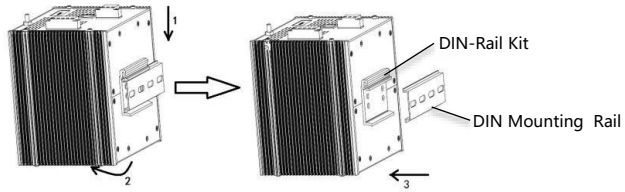
DIN Rail mount

- Make sure that there is enough space for installation and good ventilation where you select to install the device.
- Insert the upper lip of the DIN-rail kit into the mounting rail as the arrow 1 shows. Press the device towards the mounting rail until it snaps into place as the arrow 2 shows.



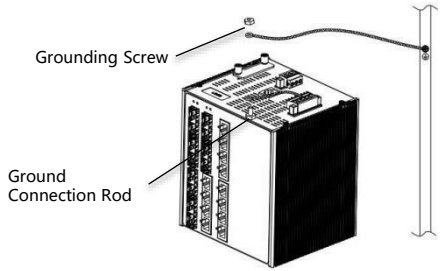
Dismount

- Press down the device a little bit hard as the arrow 1 shows.
- Slightly pull the device forward and lift up to remove it from the mounting rail as the arrow 2 shows.



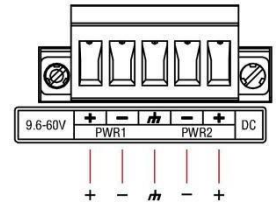
Grounding

The GND pin on the power supply terminal has already connected to the chassis ground. It only needs to crimp one side of the ground wire with cold-pressed terminal and fix it on the chassis ground using grounding screws and washers. Then keep the other side of the power line reliably connected to the earth before power on. Disconnect the grounding wire after power off. Available wire of the earth ground is 10AWG; Applicable tightening torque of the earth ground is 5NM~6NM. Please tighten with stainless steel M4 screw.



Wiring the Power Input

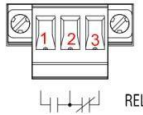
1) Insert the positive and negative wires into the V+ and V- contact on the terminal block connector.
2) Tighten screws when the wire is connected.
3) The device supports DC power supply 9.6V to 60VDC



Name	Description
+	Positive
−	Negative
⏚	Requiring good ground connection

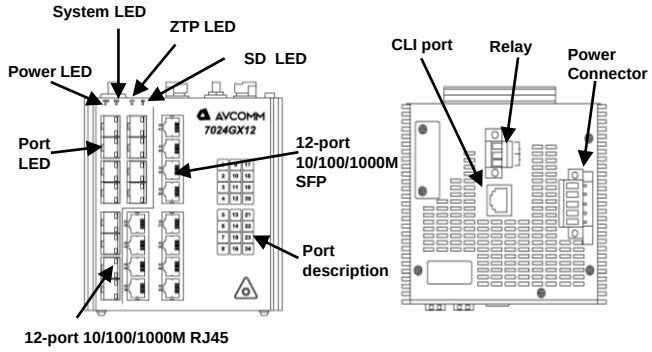
Alarm Relay

The relay is on the top panel of the switch, which is used as alarm terminal. When the device is normally working, the normally-open contact is closed, and the normally-closed contact is open. When alarm occurs, the normally-open contact is open, and the normally-closed contact is closed. Use 3-pin plug to output the signal. It is used to control the power failure and alarm the remove.



Name	Description
Normally Open Contact	Closed when the device is working normally; Open when there is an alarm occurred.
Double-throw Contact	Two-way Contact
Normally Close Contact	Open when the device is working normally; Closed when there is an alarm occurred.

· Appearance



Front **Top**

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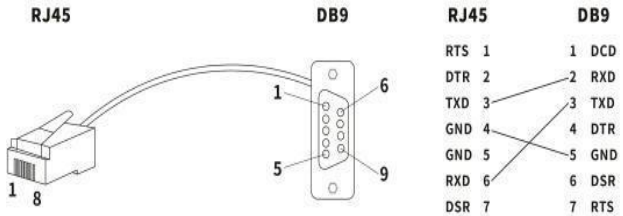
· LED Indication

LED	Description
SYS	When the device is starting and/or is not ready for operation, the yellow light is normally on. When the system is normal, the green light is flashing; when the system is abnormal, the yellow light is flashing.
PWR	When power supply is normal, the green light is normally on. When power supply is not nromal, the yellow light is on.
ZTP	Push the ZTP key on the top panel with pin for 5 seconds, the ZTP green light is on, the device is restoring to factory settings and restarting.
SD	When the yellow light is flashing, there is data in the SD card transmitting; when the green light is on, the SD card is in position.
1-24	When the port link is OK, the green light is normally on. When there is data transmitting, the yellow light is flashing.

· Ethernet Interface

CLI port

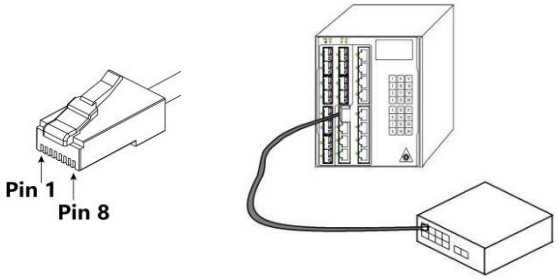
The rate of the CLI port is 9600 Baud, standard RJ45 plug. . After you connect the CLI port to the serial port of PC through a console cable, you can configure and monitor the device by running a terminal emulation software, such as super Windows terminal. The cable is provided by default. The communication parameters of the terminal serial port can be set to a rate of 9600 Baud, eight data bits, one stop bit, no sum check bit and traffic control. Below is the cable wiring diagram(RJ45-DB9).



RJ45		DB9	
RTS	1	1	DCD
DTR	2	2	RXD
TXD	3	3	TXD
GND	4	4	DTR
GND	5	5	GND
RXD	6	6	DSR
DSR	7	7	RTS
CTS	8	8	CTS
		9	RI

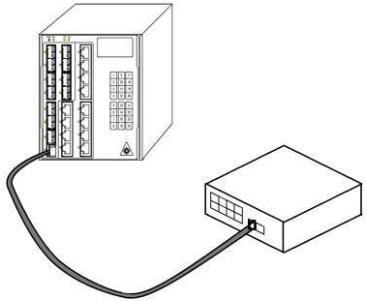
RJ45

The Switch supports multiple RJ45 ports. Every port corresponds to a LED to indicate the LINK/ACT state of the port. You can connect other Ethernet terminal devices to the RJ45 port through the straight-through/cross-over Ethernet cables.



SFP

The Switch supports multiple SFP slots. You can insert the SFP optical module into the port and then connect the module to other Ethernet terminal devices through the optical fiber if you want to use the SFP ports.



· 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 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.