ICS6400TSN-12GT4XS-2LV
Layer 3 Industrial Ethernet Switch
Quick Installation Guide

【Package Checklist】

Please check the integrity of package and accessories while first using the switch.

1. Industrial Ethernet switch
2. DIN-Rail mounting attachment
3. Certification
4. Warranty card

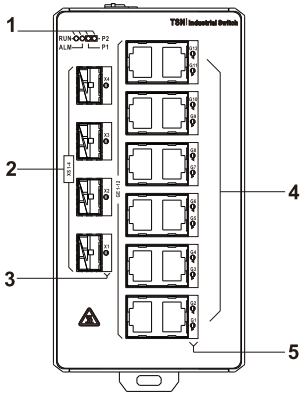
If any of these items are damaged or lost, please contact our company or dealers, we will solve it ASAP.

【Product Overview】

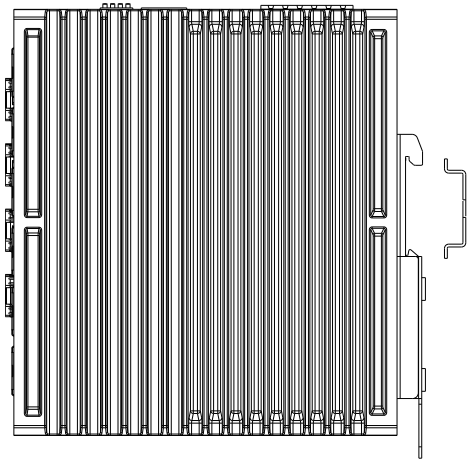
This product is Gigabit/10Gigabit DIN-Rail layer 3 industrial Ethernet switch. The model is: ICS6400TSN-12GT4XS-2LV-N (12 Gigabit Copper Ports + 4 10Gigabit SFP+ slots, 18~54VDC redundant power supply input).

【Panel Design】

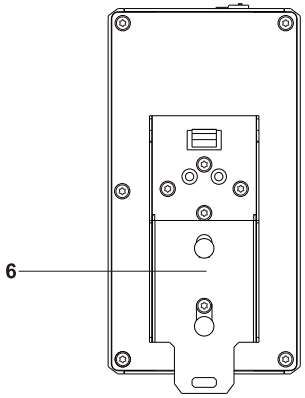
➢ **Front view**



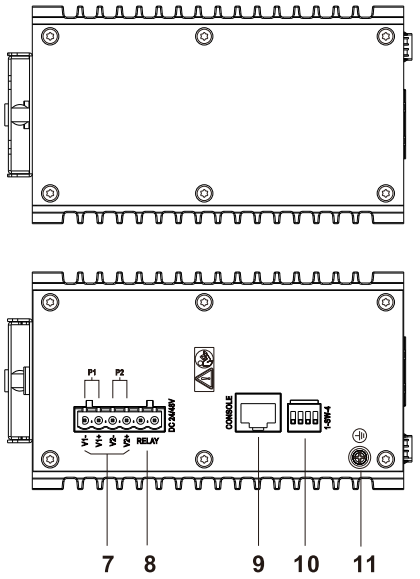
➢ **Right view**



➢ **Rear View**



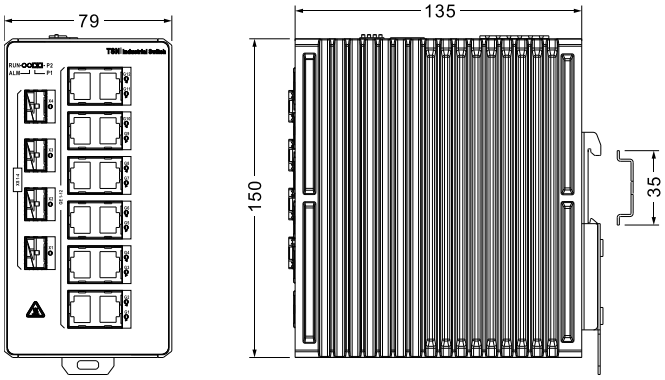
➢ **Bottom view and top view**



1. From left to right in order they are:
   - Running indicator (RUN)
   - Alarm indicator (ALM)
   - Power supply indicator (P1)
   - Power supply indicator (P2)
2. 10Gigabit SFP+ slot (X1-X4)
3. 10Gigabit SFP+ indicator (X1-X4)
4. Gigabit Ethernet interface (G1-G12)
5. Gigabit Ethernet interface indicator (G1-G12)
6. DIN-Rail mounting kit
7. Terminal blocks for power input (P1/P2)
8. Terminal blocks for relay alarm output (RELAY)
9. Console port
10. DIP switch
11. Grounding screw (M4)

【Mounting Dimension】

Unit: mm

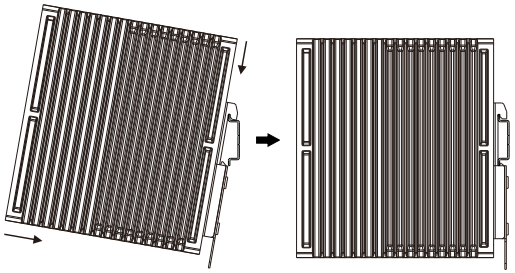


Notice Before Mounting:

- Don't place or install the device in area near water or moist, keep the relative humidity of the device surrounding between 5%~95% without condensation.
- Before powering on the device, check the power specifications supported by the device to prevent device damage due to overvoltage.
- The device surface temperature is high after running; please don't directly contact to avoid scalding.

【DIN-Rail Mounting】

The product adopts 35mm standard DIN-Rail mounting which is suitable for most industrial scenes, mounting steps as follows:



Step 1 Check if the DIN-Rail mounting kit is installed firmly.

Step 2 Clip the upper part of the DIN-Rail mounting kit, i.e. the fixed side, into the DIN rail.

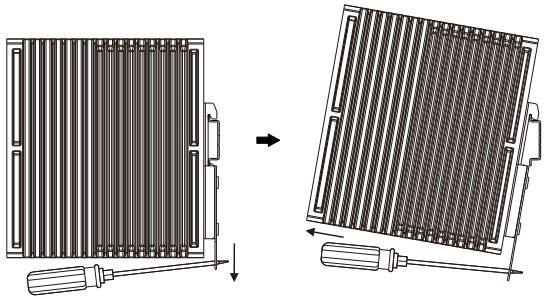
Step 3 Press the lower side of the device and insert the lower part of DIN-Rail mounting kit (the side with spring support) into DIN-Rail.

Tips:

The DIN-Rail spring support is a metal sheet that can move up and down, and there will be a sound after it is clamped in.

Step 4 Check and confirm the product is firmly installed on DIN rail, then mounting ends.

【Disassembling DIN-Rail】



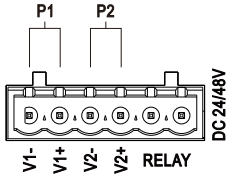
Step 1 Power off the device.

Step 2 Use a slot type screwdriver or other tools to move the DIN rail spring support downward; At the same time, move the lower side of the device outward and move out the lower part of the DIN rail mounting kit.

Step 3 Lift the device upward slightly, move out the upper part of DIN-Rail mounting kit. Disassembling ends.

Notice Before Powering on:

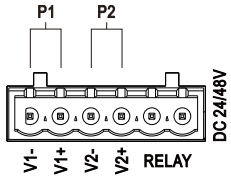
- Power ON operation: First insert the power supply terminal block into the device power supply interface, then plug the power supply plug contact and power on.
- Power OFF operation: First, remove the power plug, then remove the wiring section of terminal block. Please pay attention to the above operation sequence.



【Power Supply Connection】

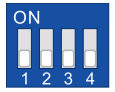
The device provides 6-pin 5.08mm pitch power supply terminal blocks and power supply occupies the top 4 pins. It supports two independent DC power supply systems, P1 and P2. The series of device supports redundant power supply, two power supply can work at the same time. The device will still run non-stop when one power supply fails. Power supply supports anti-reverse connection, which protect the device from damage but the device cannot be powered on. The definitions of power pin are shown in the left figure, and the power input is 24VDC/48VDC (18~54VDC).

【Relay Connection】



This device provides 6-pin 5.08mm pitch terminal blocks, relay occupies the lower 2 pins. Relay terminals are a set of normally open contacts of the device alarm relay. They are open circuit in the state of normal non alarm, closed when any alarm information occurs. For example, they are closed when powered off, and send out alarm. The switch supports 1 relay alarm information output that can output power supply alarm or network abnormality alarm. It can be connected to alarm light or alarm buzzer or other switching value collecting devices, which can timely inform operators when the alarm occurs.

【DIP Switch Settings】

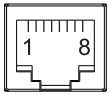


The device provides 4-pin DIP switch for function setting, in which “ON” is the enabled end.

The definitions of DIP switch are as follows:

DIP	Definition	Operation
1	Restore Factory Settings	Set the DIP switch to ON, the device will root automatically and restore to factory settings, then turn off the DIP switch.
2-4	Reserved	—

【Console Port Connection】



The device provides 1 program debugging port based on RS-232 serial port which can conduct device CLI command management after

connecting to PC. The interface adopts RJ45 port, the RJ45 pin definition as follows:

Pin No.	2	3	5
Definition	TXD	RXD	GND

【Checking LED Indicator】

The device provides LED indicators to monitor its operating status, which has simplified the overall troubleshooting process. The function of each LED is described in the table below:

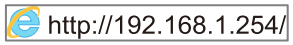
LED	Indicate	Description
RUN	ON	Device is not started or abnormal
	Blinking	Blinking 1 time per second, system is running normally
	OFF	The device is powered off or the device is abnormal.
ALM	ON	Power supply or port link has alarm
	OFF	Power supply, port link without alarm
P1-P2	ON	Power supply is running normally
	OFF	Power supply is disconnected or running abnormally
X1-X4, G1-G12	ON	Ethernet port has established a valid network connection
	Blinking	Ethernet port is in an active network status
	OFF	Ethernet port has not established valid network connection

【Logging in to WEB Interface】

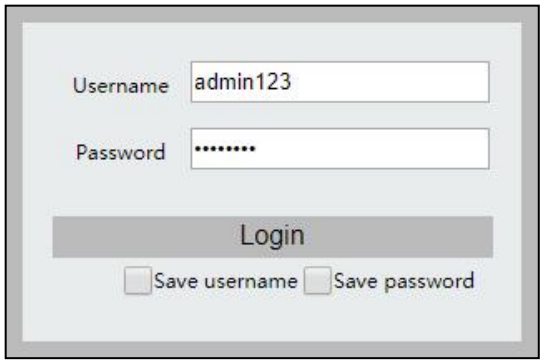
This device supports WEB management and configuration. Computer can access the device via Ethernet interface. The way of logging in to device's configuration interface via IE browser is shown as below:

Step 1 Configure the IP addresses of computer and the device to the same network segment, and the network between them can be mutually accessed

Step 2 Enter device's IP address in the address bar of the computer browser.



Step 3 Enter device's username and password in the login window as shown below.



Step 4 Click the "login" button. Change the initial password when logging into the device for the first time, after that, relog into the device to access the device's Web interface.

Notes:

- The default IP address of the device is "192.168.1.254".
- The default username and password of the device is "admin123".
- If the username or password is lost, user can restore it to factory settings via device DIP switch or management software; all modified configurations will be cleared after restoring to factory settings, so please backup configuration file in advance.
- Please refer to user manual for specific configuration method of logging in to WEB interface and other configurations about network management function.

【Specification】

Panel	
10Gigabit SFP+	1000/10GBase-X self-adaptive SFP+ slot
Gigabit copper port	10/100/1000Base-T(X) self-adaptive RJ45, automatic flow control, support full/half duplex mode, MDI/MDI-X self-adaption
Console port	CLI command management port (RS-232), RJ45
Alarm interface	6-pin 5.08mm pitch terminal blocks, alarm occupies 2 pins, support 1 relay alarm output
Indicator	Running Indicator, Alarm Indicator, Power Supply Indicator, Interface Indicator
Switch Property	
Backplane bandwidth	90G
Packet buffer size	32Mbit
MAC Address Table	32K
Power Supply	
Input Power Supply	24 VDC /48VDC（18~54VDC）Redundant power supply, support anti-reverse connection
Access terminal block	6-pin 5.08mm pitch terminal blocks (power supply occupies 4 pins)
Power Consumption	
No-load	17.3W@24VDC
Full-load	26.2W@24VDC
Working Environment	
Working temperature	-40~75℃
Storage temperature	-40~85℃
Working humidity	5%～95% (no condensation)
Protection grade	IP40 (metal shell)

【Disposal of Waste Electrical and Electronic Equipment (WEEE 2012/19/EU)】

(Applicable in the EU-member states)

The crossed-out wheeled bin symbol on the equipment or its packaging indicates that the product, at the end of its service life, shall not be mixed with unsorted municipal waste but should be collected separately, in accordance with local laws and regulations.

A proper separate collection of end-of-life equipment for the subsequent recycling, treatment and environmentally compatible disposal, will help prevent potential damage to the environment and human health, facilitating the reuse, recycling and/or recovery of its component materials.

Private users should contact their vendor or municipal waste management service and ask for disposal information.

Professional users should contact their suppliers and check the terms of their selling agreement.

This product must not be disposed of with other commercial waste.

Users' cooperation in the correct disposal of this product will contribute to saving valuable resources and protecting the environment.