



## DIS-700G-28SW

# Industrial Layer 2+ Gigabit Managed Switch with SFP slots

## Quick Installation Guide

This document outlines the quick installation of the DIS-700G-28SW series.

### Package Checklist

Please verify that the box contains the following items:

Item	Quantity
Rack-mounted Ethernet switch	1
Rack-mount bracket	2
Screws (for bracket)	6
ALM Terminal Block (2-pin)	1
Quick Installation Guide	1
RJ45 Ethernet Port Dust Cover	14
SFP Ethernet Port Dust Cover	2

### Safety Instructions

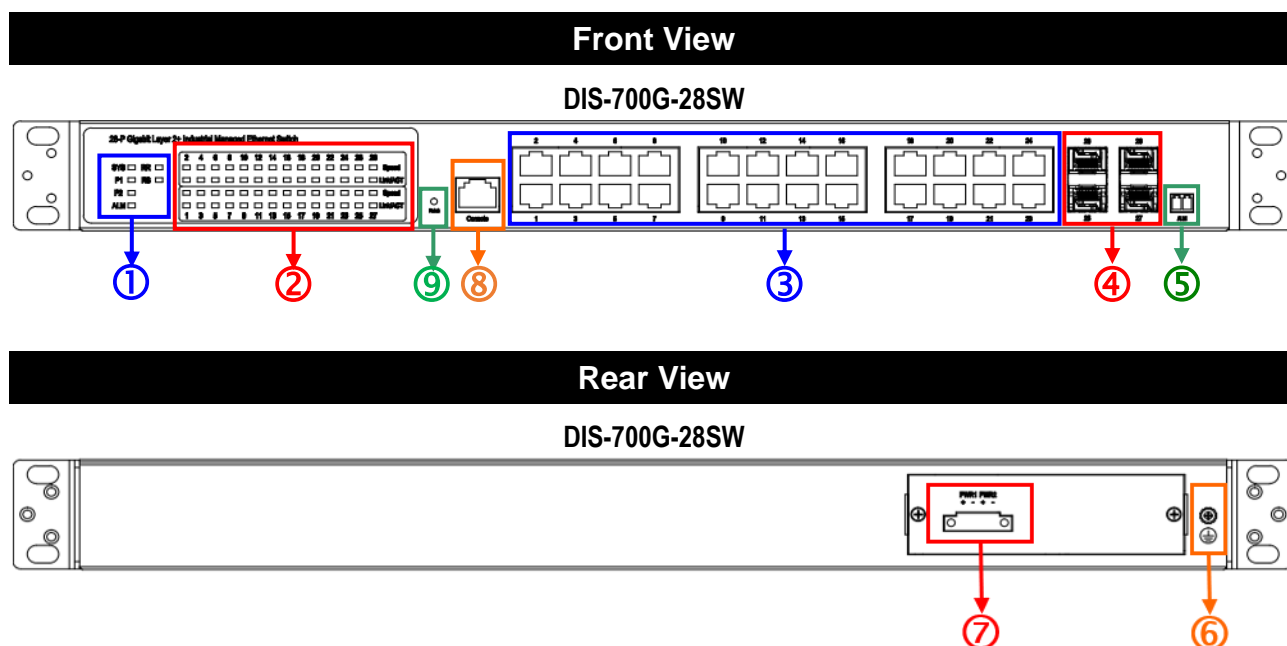
When a connector is removed during installation, testing, or servicing, or when an energized fiber is broken, a risk of ocular exposure to optical energy that may be potentially hazardous occurs, depending on the laser output power.

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.

## Model Layouts

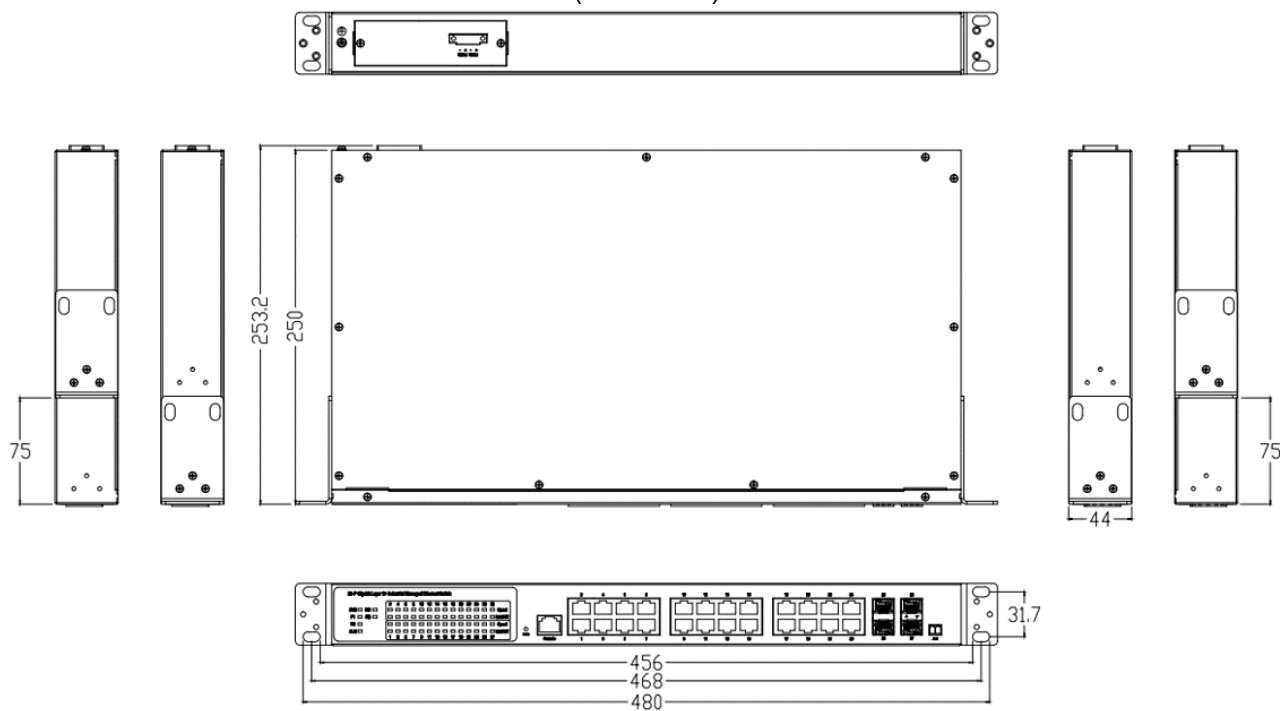
### Front Access Models



Item	Description
1	System Status Indicators (LED)
2	Port Status Indicators (LED)
3	Gigabit Copper RJ45 Ports
4	100/1000BaseSFP Slot (Port 25 & 26)
	1000BaseSFP Slot (Port 27 to 28)
5	Terminal Block for Alarm Relay output
6	Grounding Screw
7	DC terminal block (dual input)
8	Console Port
9	Reset Button

## Dimensions

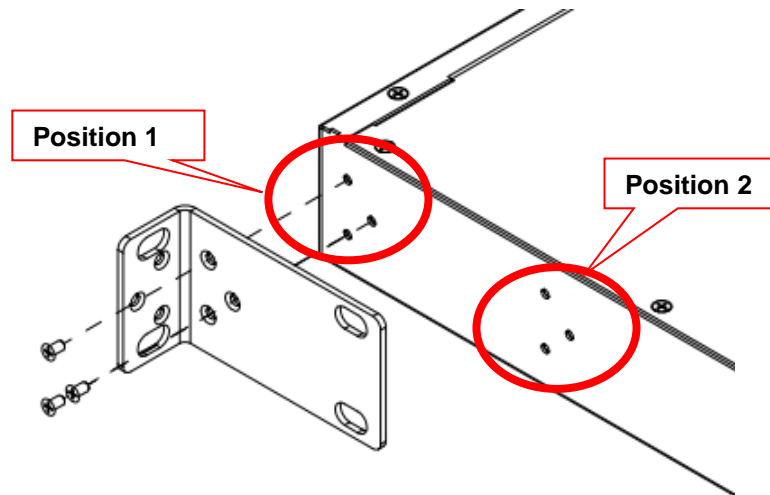
(unit = mm)



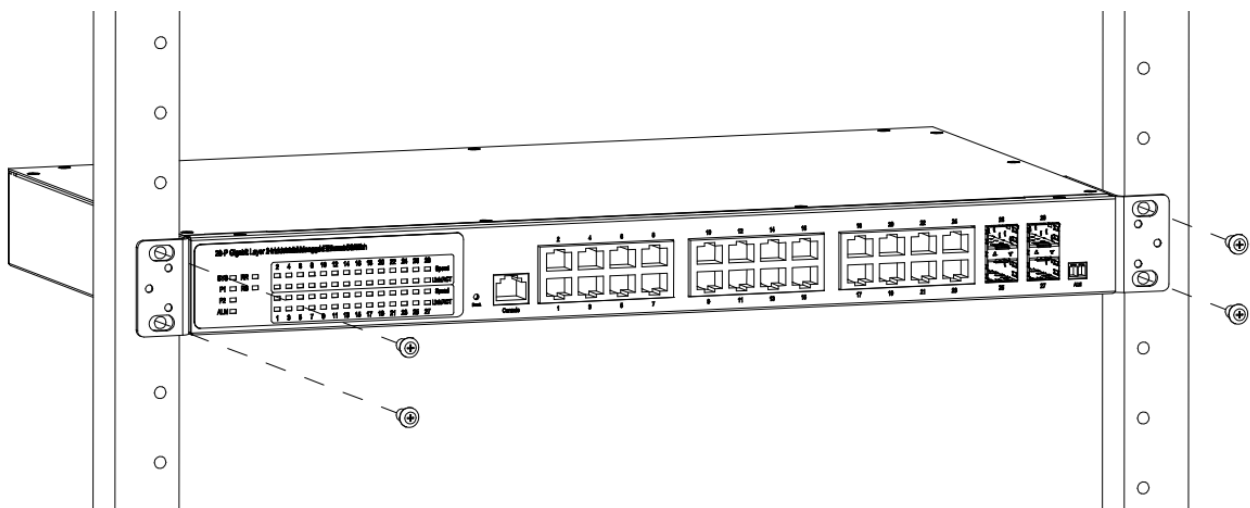
## Rack Mounting

When mounting the switch, practice good safety habits. Relay rack mounting normally requires at least two people.

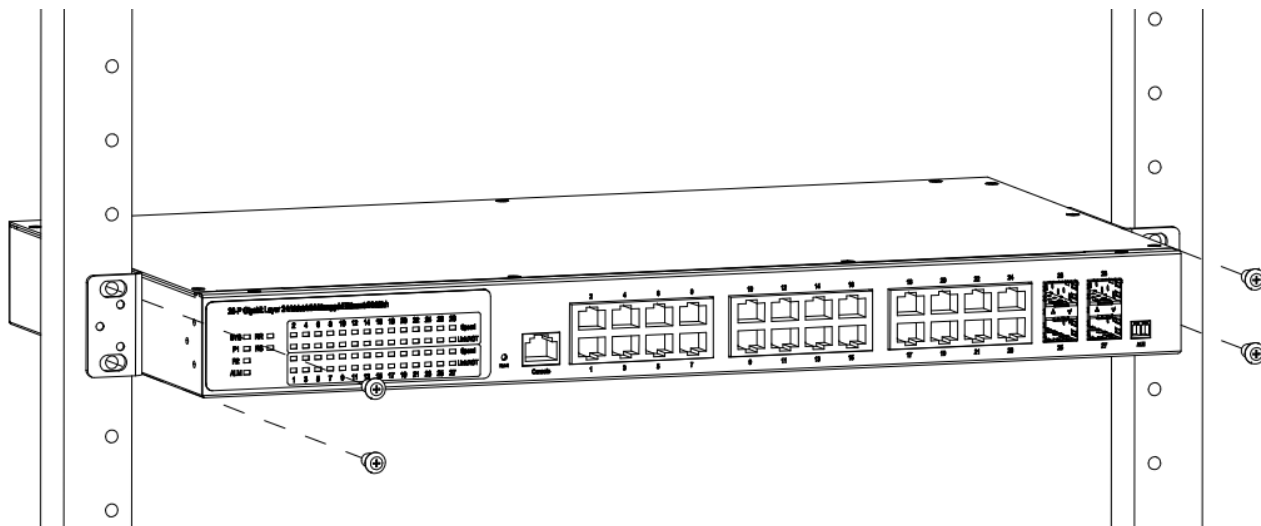
1. Obtain the tools required for the mounting hardware.
2. Attach the mounting brackets to the switch in one of two supported positions by using the screws in the accessory kit.



3. From the front of the relay rack, position the switch in preferred location.
4. Secure the switch in place with the provided screws on both left and right side of mounting bracket.



**Mounting Bracket Position 1 for Standard Mount**



**Mounting Bracket Position 2 for Standard Mount**

## Ground Connecting

The switch must be properly grounded for optimum system performance.

## Alarm Relay Connecting

The 30VDC/1A alarm relay output contacts are located in a 2P terminal block.

The alarm relay contact is “Normal Open”, and it will be closed when detected any power failures.

## Power Connecting

### **AC Power Connection**

If you use AC power, connect the AC power cord to the AC supply socket on the rear panel, and plug the cord into the external power source. The voltage must be 100 to 240 V ( $\pm 10\%$  tolerance).

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**Warning:** Ensure that all power sources to the chassis (power distribution panel) are turned off during the connection.

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## Ethernet Interface Connecting (RJ45 Ethernet)

The switch provides two types of electrical (RJ45) and optical (mini-GBIC) interfaces.

Connecting the Ethernet interface via RJ45:

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

## 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.

For a 100 Mbps fiber port (port 25 & 26 only) available, please prepare the LC connectors or SC connectors (with the use of an optional SC-to-LC adapter).

They are available with multimode, single mode, long-haul or special-application transceivers.

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**DANGER:** Never attempt to view optical connectors that might be emitting laser energy.

Do not power up the laser product without connecting the laser to the optical fiber and putting the cover in position, as laser outputs will emit infrared laser light at this point.

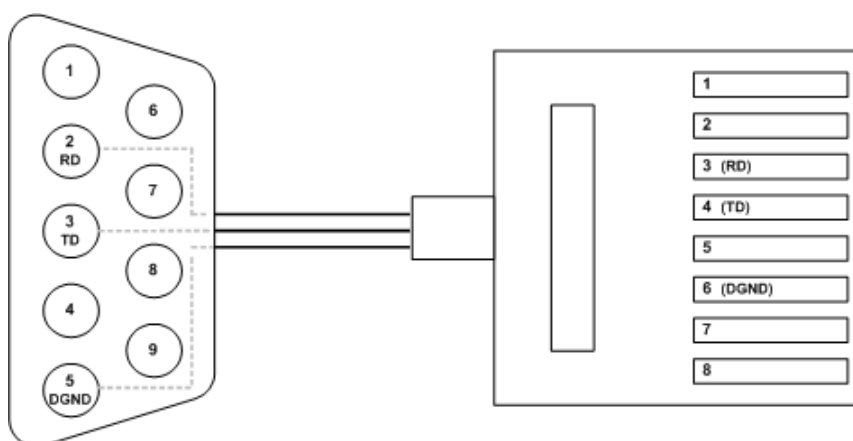
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## Console Connection

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: 115200bps
- 8 data bits, 1 stop bit
- None Priority
- None flow control

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 DIS-700G-28SW; the DB9 connector of the cable is connected to the PC COM port. The pin assignment of the console cable is shown below:



## Connect & Login to DIS-700G-28SW

1. Connecting to DIS-700G-28SW Ethernet port (RJ45 Ethernet port).
2. **Factory default IP: 192.0.2.1**
3. Login with default account and password.

**Username: admin**

**Password: admin**

## CLI Initialization & Configuration (Optional)

1. Connecting to DIS-700G-28SW Ethernet port (RJ45 Ethernet port).
2. Enter the command: ***telnet 192.0.2.1***
3. Login with default account and password.

***Username: admin***

***Password: admin***

4. Change the IP address with commands listed below:

CLI Command:

```
enable
configure
interface vlan 1
ip-address xxx.xxx.xxx.xxx netmask xxx.xxx.xxx.xxx
exit
```

## SYSTEM RESET

The Reset button is provided to reboot the system without the need to remove power. Under normal circumstances, you will not have to use it. However, on rare occasions, the DIS-700G-28SW may not respond; then you may need to push the Reset button.



## LED STATUS INDICATIONS

LED Name	Indicator /color	Condition
<b>1. System Status Indicators</b>		
SYS	On Green	System is working normal
	Flash Green	System booting, or database saving or remote download is in-progress
	Off	System is not working or not have supply power
P1	On Green	P1 power line has power
	Flashing Green	P1 is DC power and only one pair of power is input
	Off	P1 power line disconnect or does not have supply power
P2	On Green	P2 power line has power
	Off	P2 power line disconnect or does not have supply power
Alarm	On Red	Alarm event occurs
	Off	No alarm
RR (Ring Role)	On Green	One of 3 Ring group is enabled and is Master role.
	Off	Ring is slave role
RS (Ring Status)	On Green	Ring fail happen and detected
	Off	No ring fail detected
<b>2. Port Status Indicators</b>		
Copper port Link/Act (Port 1 to 24)	On Green	Ethernet link up but no traffic is detected
	Flashing Green	Ethernet link up and there is traffic detected
	Off	Ethernet link down
Copper port Speed (Port 1 to 24)	On Yellow	A 1000Mbps connection is detected
	Off	No link or a 10 Mbps,100Mbps connection is detected
SFP port Link (Port 25 to 28)	On Green	Ethernet link up
	Flashing Green	Ethernet link up and there is traffic detected
	Off	Ethernet link down
SFP Speed (100/1000M) (Port 25 to 28)	On	SFP port speed 1000Mbps
	Off	SFP port speed 100Mbps or link down

## Federal Communication Commission Interference Statement

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This equipment 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 limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

### Non-modification Statement

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

### Caution

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

### Innovation, Science and Economic Development Canada (ISED) Statement

This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

### Japan Voluntary Control Council for Interference Statement

この装置は、クラス A 情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

VCCI-A

This is a Class A product based on the standard of the Voluntary Control Council for Interference (VCCI). If this equipment is used in a domestic environment, radio interference may occur, in which case the user may be required to take corrective actions.

### CE EMI Class A Warning

This equipment is compliant with Class A of CISPR 32. In a residential environment this equipment may cause radio interference.