

26-Port Unmanaged Industrial Gigabit Ethernet Switch

Quick Installation Guide

Overview

The 26-Port Unmanaged Ethernet Switch is designed for supporting standard industrial applications without complex setup to make the network truly plug-and-play.

Package Checklist

Please verify that the box contains the following items:

Item	Quantity
Rack-mount Ethernet switch	1
Rack-mount bracket	2
Screws (for bracket)	6
DC power terminal block (4-pin) – option for DC models	1
ALM terminal block (2-pin)	1
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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.

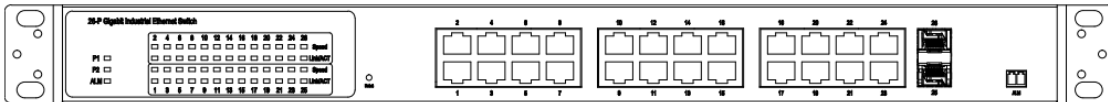
If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

Model Layouts

Front Access Models

Front View

All Front Access models



Rear View

DC model



Single AC model



Dual AC model



DC+AC model



Rear Access Models

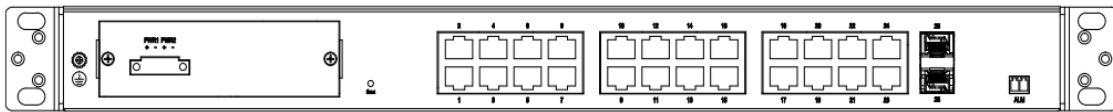
Front View

All Rear Access models

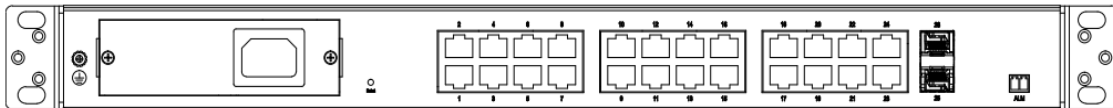


Rear View

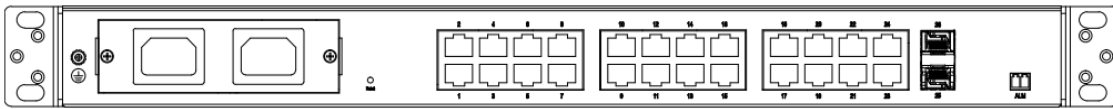
DC model



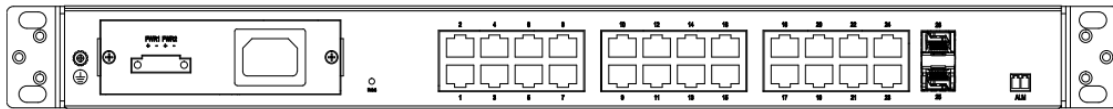
Single AC model



Dual AC model

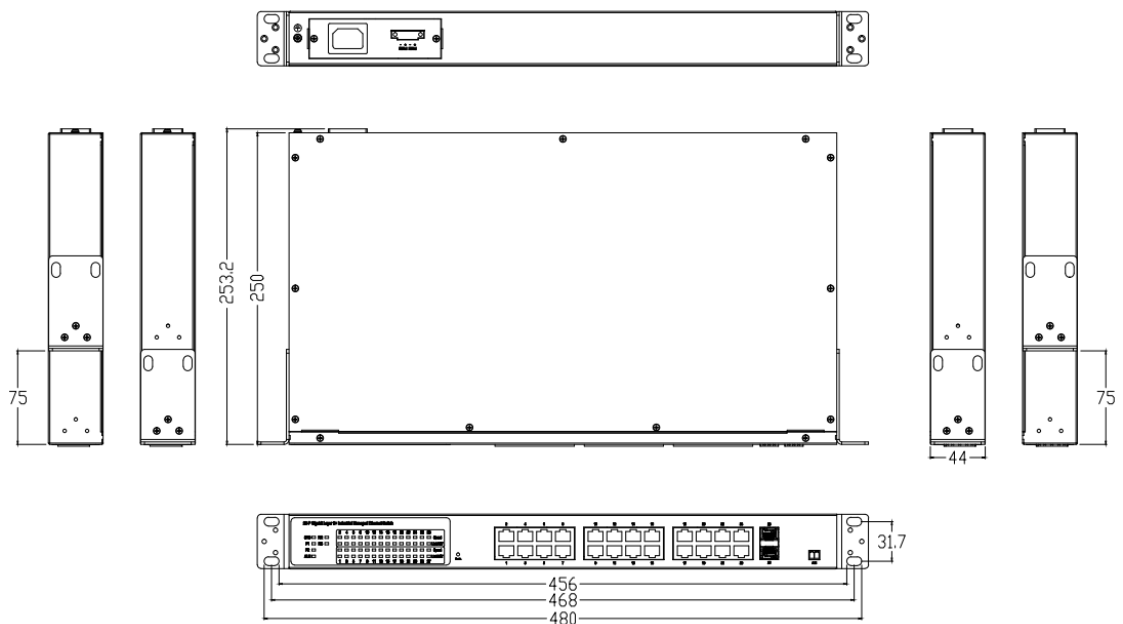


DC+AC model

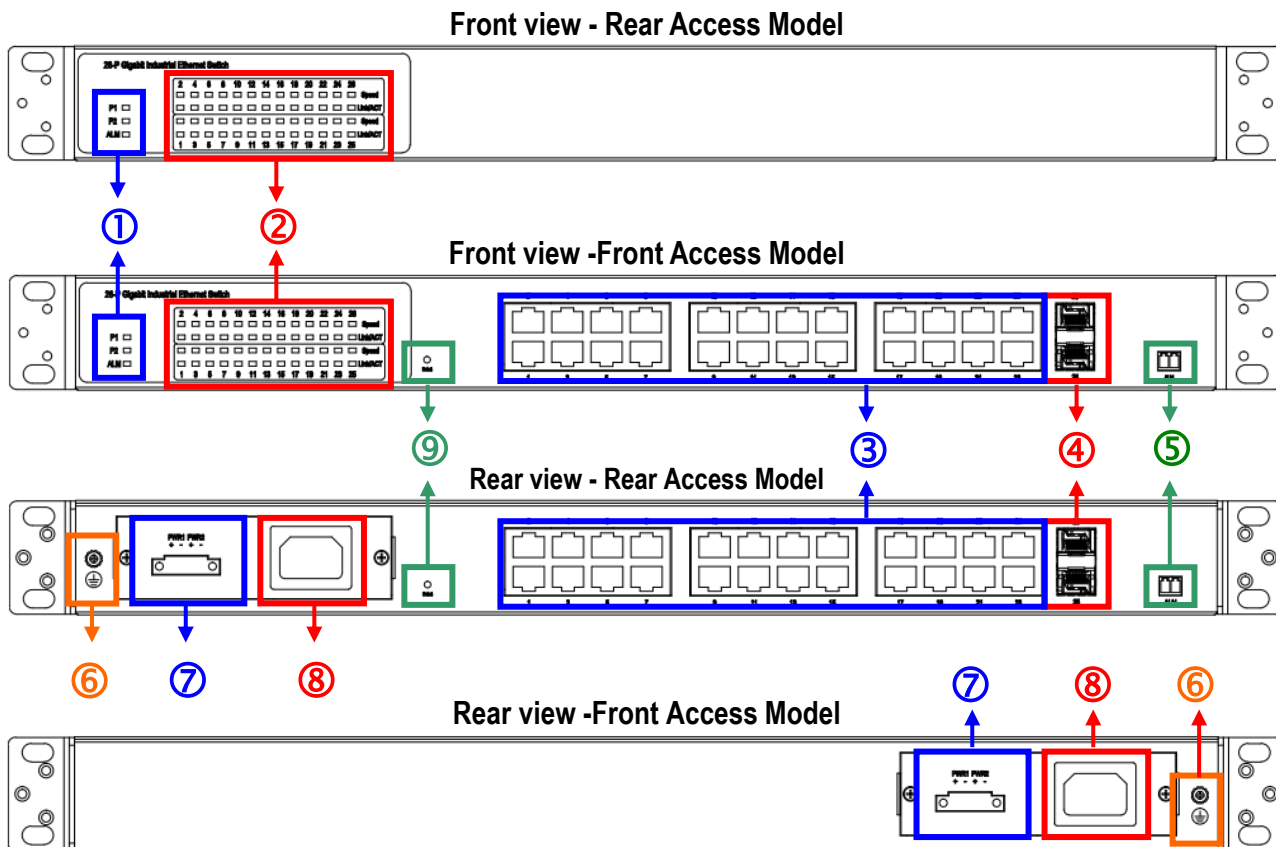


Dimensions

(unit = mm)



Panel Layouts

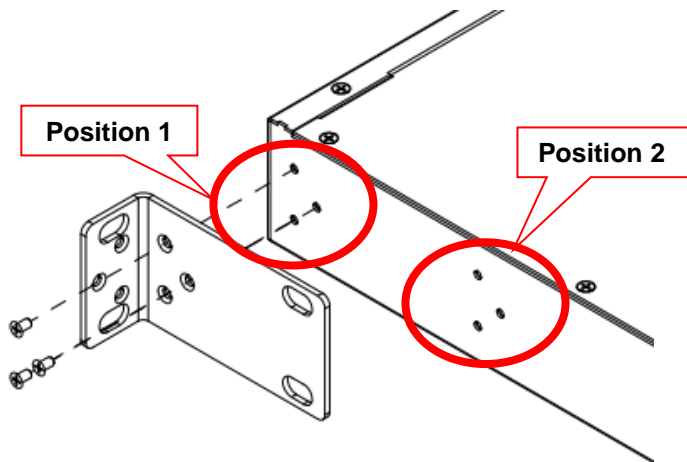


- ① System Status Indicators (LED)
- ② Port Status Indicators (LED)
- ③ Gigabit Copper RJ45 ports
- ④ 100/1000BaseSFP slot
- ⑤ Terminal block for Alarm Relay output
- ⑥ Grounding screw
- ⑦ DC terminal block (dual input)
- ⑧ AC supply socket
- ⑨ Reset Button

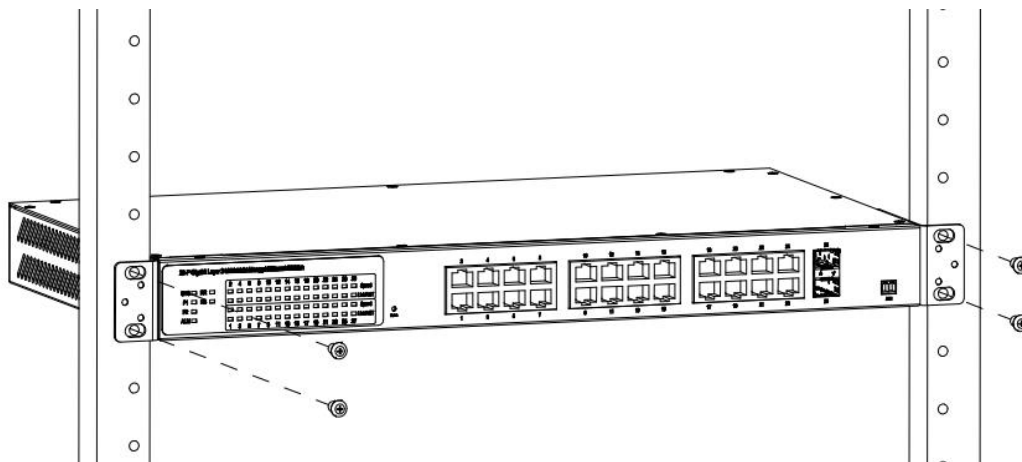
Rack Mounting

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

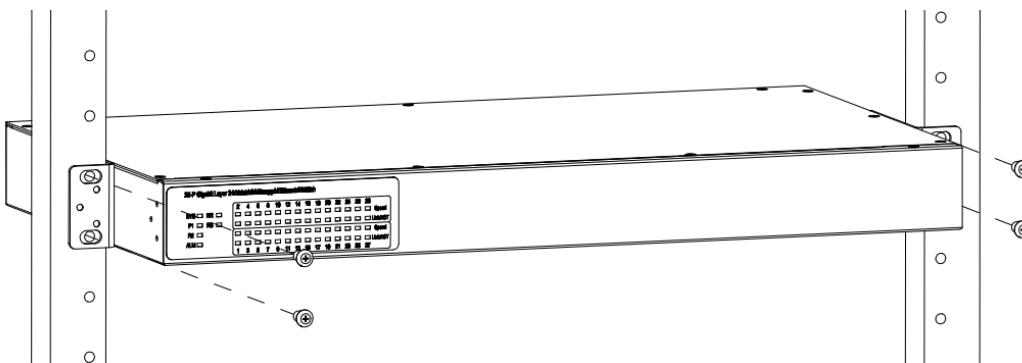
1. Obtain the tools required for the mounting hardware.
2. Attach the mounting brackets to the switch by using the screws in the accessory kit.



3. From the front of the relay rack, position the switch in its relay rack mounting location.
4. Secure the switch in its relay location on both left and right side of mounting bracket.



Mounting Bracket Position 1 for Standard Mount (front access model shown)



Mounting Bracket Position 2 for Standard Mount (Rear Access model shown)

Ground Connecting

The switch must be properly grounded for optimum system performance.

Alarm Relay Connecting

The alarm relay output contacts with current carrying capacity of 30VDC, 1A are a 2P terminal block.

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

Power Connecting

DC Power Connection

The switch can be powered from two power supply (input range 12V – 58V). The DC power connector is a 4P terminal block; insert the positive and negative wires into V+ and V- contact on the terminal block and tighten the wire-clamp screws to prevent the wires from being loosened.

After completing chassis installation, please apply power to the fused power distribution panel feeding the chassis.

Note The DC power should be connected to a well-fused power supply.

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).

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

Ethernet Interface Connecting (RJ45 Ethernet)

The switches provide 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 100 Mbps fiber port available, please prepare the LC connectors or SC connectors (with the use of an optional SC-to-LC adapter).

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.

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.

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 switch may not respond; then you may need to push the Reset button.

LED STATUS INDICATIONS

LED Name	Indicator /color	Condition
P1	On Green	PWR1 has power applied to.
	Flashing Green	Only DC1 or DC2 has power applied to (DC model only).
	Off	PWR1 has NO power applied to.
P2 (Dual model only)	On Green	PWR2 has power applied to.
	Off	PWR2 has NO power applied to.
Alarm	On Red	Power failure alarm occurs. Either PWR1 or PWR2 does not have power. (Dual power models only).
	Off	No power failure alarm
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/Act (Port 25 & 26)	On	SFP link up but no traffic is detected
	Flashing Green	SFP link up and there is traffic detected
	Off	SFP link down
SFP Speed (100/1000M) (Port 25 & 26)	On	SFP port speed 1000Mbps
	Off	SFP port speed 100Mbps

Technical Specifications

Ethernet interfaces	
Ethernet Interface	24 Gigabit Copper ports plus 2 SFP ports 100FX or 1000BaseF (SX/LX/LH)
Operating mode	Store and forward, L2 wire-speed/non-blocking switching engine
Copper RJ45 Ports	
Copper RJ45 Ports	10/100/1000 Mbps
MDI/MDIX Auto-crossover	Support straight or cross wired cables
Auto-negotiating	10/100/1000 Mbps speed auto-negotiation; Full and half duplex
SFP (pluggable) Ports	
SFP (pluggable) Ports	100/1000BaseSFP slot
Fiber port connector	LC typically for fiber (depends on module)
Power	
Power input options	DC Redundant Input Terminals & Reverse power protection Single/dual AC inputs DC & AC dual inputs
Input voltage range	DC: 12-58 VDC or 36-58 VDC AC: 100/240 VAC, 50Hz ~ 60Hz
Power Consumption	26W (Max.)
Environmental and Compliances	
Operating temperature range	Industrial : -40 to +75°C (cold startup at -40°C) Standard: 0 to 60 °C
Storage temperature range	-40 to +85 °C
Humidity	5 to 95% RH (non-condensing)
Vibration, shock & freefall	Vibration: IEC60068-2-6, Shock: IEC60068-2-27, Free Fall: IEC60068-2-32
Certification compliance	CE/FCC/UL-508
RoHS and WEEE	RoHS (Pb free) and WEEE compliant
MTBF	> 25 years
Mechanical	
Ingress protection	IP30
Dimension	440 (W) x 44 (H) x 253 (D) mm
Weight	3.0 kg (Max.)
Installation	19" rack mounting