



Quick Installation Guide

VX-IGP-1204F

8-Port Managed Industrial Ethernet Switch

Overview

The Managed Ethernet Switch solutions are designed for supporting standard industrial applications. Managed switches are easier to prioritize, partition, and organize a user’s network, providing a more reliable and better quality services.

Package Checklist

Please verify the box contains the following items:

Item	Quantity
Management Ethernet switch	1
Wall-mount plates	2
DIN-Rail CLIP	1
M3 Screws (for the wall mount plates & DIN CLIP)	4
DC power terminal block	1
RJ45 Ethernet port Dust Cover	Some
SFP Ethernet port Dust cover	Same as SFP port number

Safety Instructions

When a fiber connection is removed during installation, testing, servicing or an active fiber is broken, ocular exposure to optical energy may be potentially hazardous, depending on the laser output power.

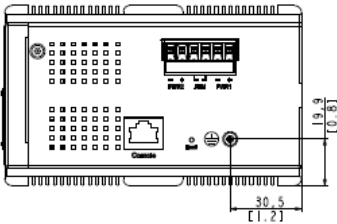
The primary hazards of exposing laser radiation from an optical-fiber communication systems are:

- Damage to eyes from accidental exposure to a beam emitted by a laser source.
- Damage to eyes from viewing the connector that attaches to a broken fiber or an energized fiber.

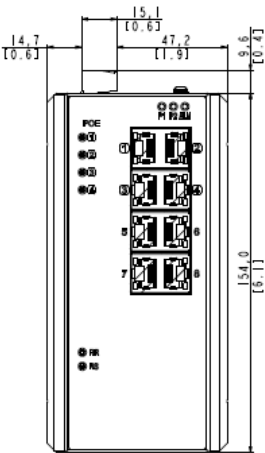
Technical Specifications

Model	VX-IGP-1204F
Ethernet	
Copper RJ45 Ports	10/100/1000 Mbps speed auto-negotiation MDI/MDIX Auto-crossover
SFP (pluggable Ports)	100/1000Base SFP slot
Fiber port connector	LC typically for fiber (depends on module)
Power	
Power input	Redundant Input Terminals; Reverse power protection
Input voltage range	12-58 VDC (with POE: 46-58 VDC)
Maximum Power	Without PoE: 14 Watts With PoE: 265 Watts
Environmental and Compliances	
Operating temperatur	-40 to +75°C (cold startup at -40°C)
Storage temperature	-40 to +85°C
Humidity	5 to 95% RH (non-condensing)
Mechanical	
Ingress protection	IP30
Dimension (without DIN rail clip)	154mm(H) x 128mm(D) x 77mm(W)
Weight	1410g
Installation option	DIN-Rail mounting Wall mounting

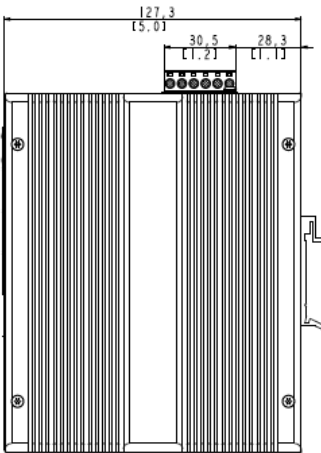
Appearance



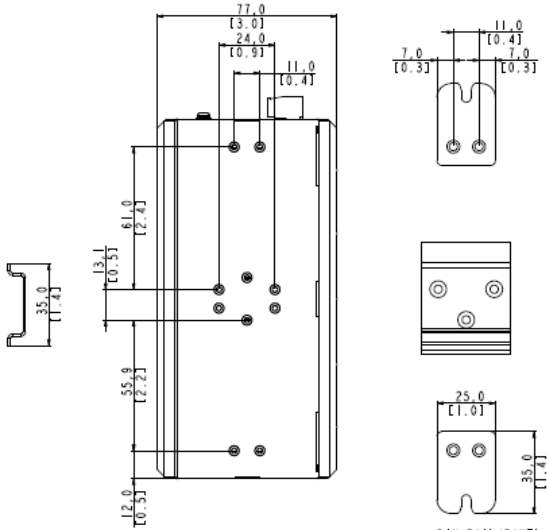
TOP VIEW



FRONT VIEW



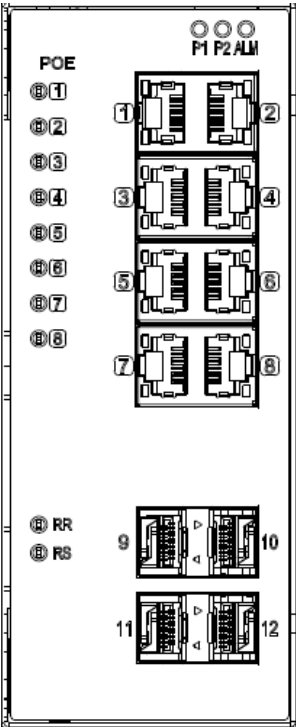
SIDE VIEW



REAR VIEW

DIN-RAIL/PANEL MOUNTING KIT

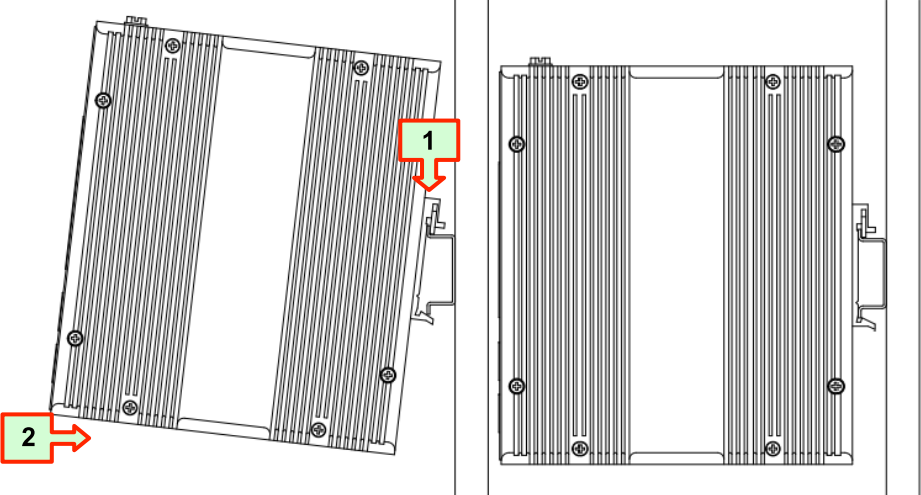
Faceplate



DIN-Rail Mounting

Mounting steps:

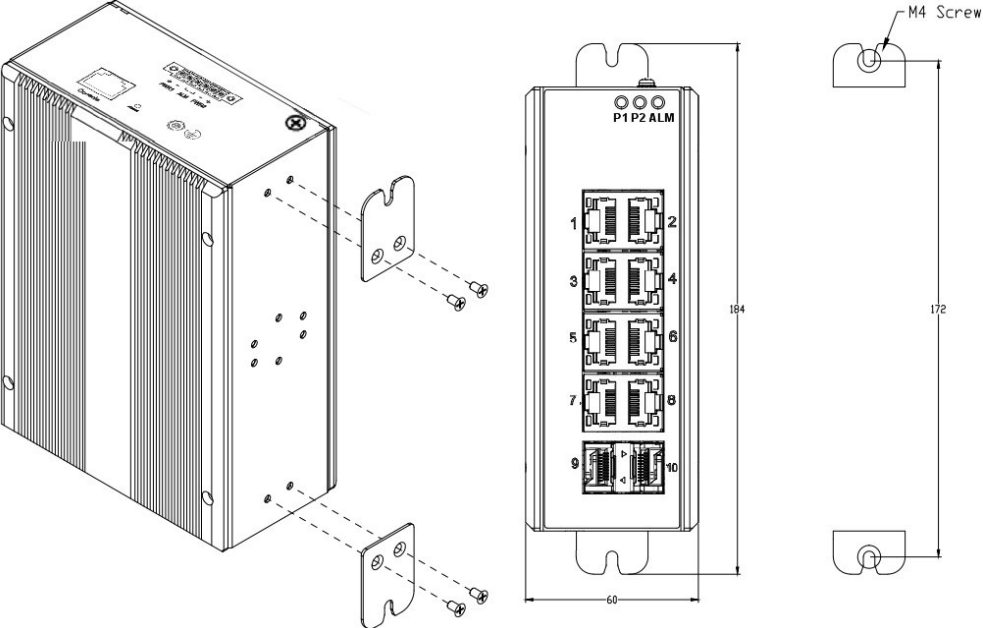
- 1. Screw the din-clip with screws in the accessory kit.
- 2. Hook the unit onto the din-rail.
- 3. Push the bottom of the unit towards the din-rail until it locks in place.



Wall Mounting

Mounting steps:

- 1. Screw the wall-mount brackets with screws in the accessory kit.



The graph is for all series

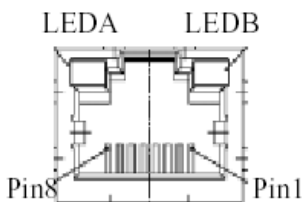
Ethernet Interface (RJ45 Ethernet)

The switch provides two types of Ethernet interfaces: electrical (RJ45) and optical (SFP) interfaces.

Connecting the Ethernet interface via RJ45:

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

The pin assignment of RJ-45 connector is shown in the following figure and table.



Pin	Assignment	PoE Assignment
1,2	T/Rx+,T/Rx-	Positive V_{Port}
3,6	T/Rx+,T/Rx-	Negative V_{Port}
4,5	T/Rx+,T/Rx-	X
7,8	T/Rx+,T/Rx-	X

Ethernet Interface (Fiber, SFP)

For both 100/1000 Mbps fiber speed connections, the SFP slots are available. The SFP slot accepts the fiber transceivers that typically have an LC connector.

The fiber transceivers have options of multimode, single mode, long-haul or special-application transceivers.

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

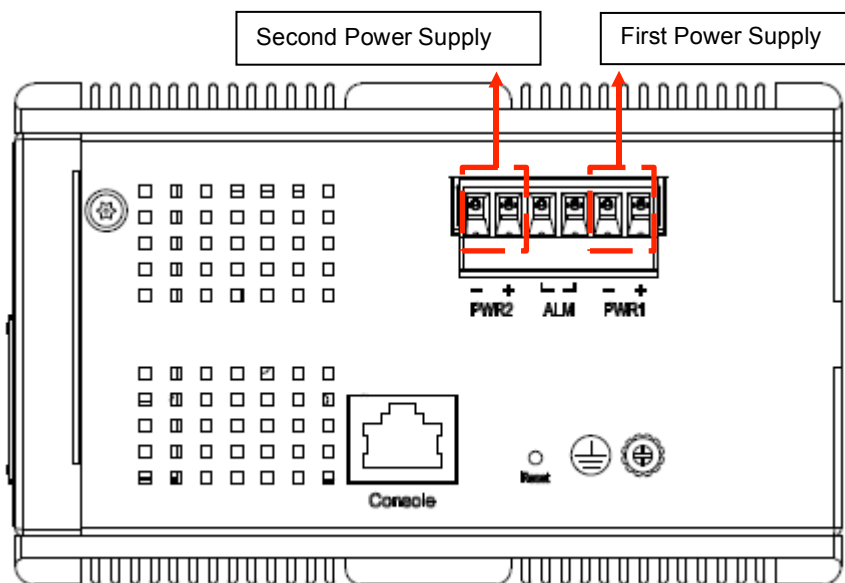
Do not power up the laser product without connecting the laser to the optical fiber and putting the dust cover in position, as laser outputs will emit infrared laser light at this point.

Connecting Power Terminal Block

The switch can be powered from two power supplies (input range 12V – 58V). Insert the positive and negative wires into V+ and V- contacts on the terminal block respectively and tighten the wire-clamp screws to prevent the wires from being loosened.

Note: 1. The DC power should be connected to a well-fused power supply.

VX-IGP-1204F

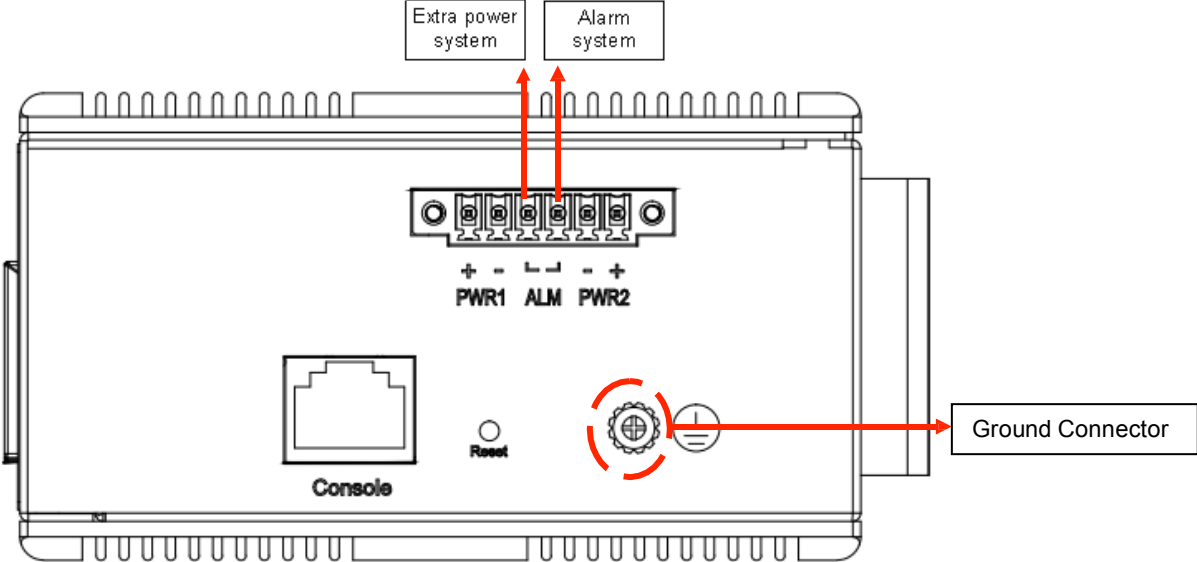


Alarm Relay and Ground

The alarm relay output contacts are in the middle of the DC terminal block connector as shown in the figure below.

The alarm relay out is “Normal Open”, and it will be closed when detected any predefined failure such as power failures or Ethernet link failures.

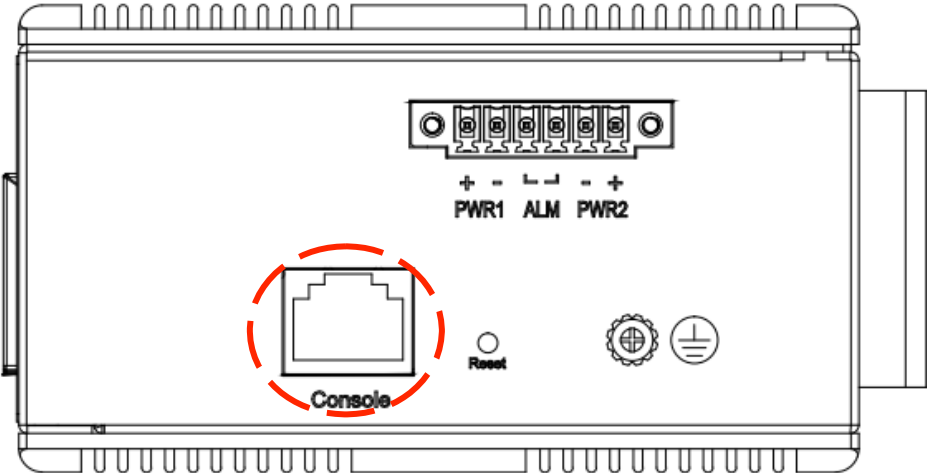
The relay output with current carrying capacity of 0.5A @ 24 VDC



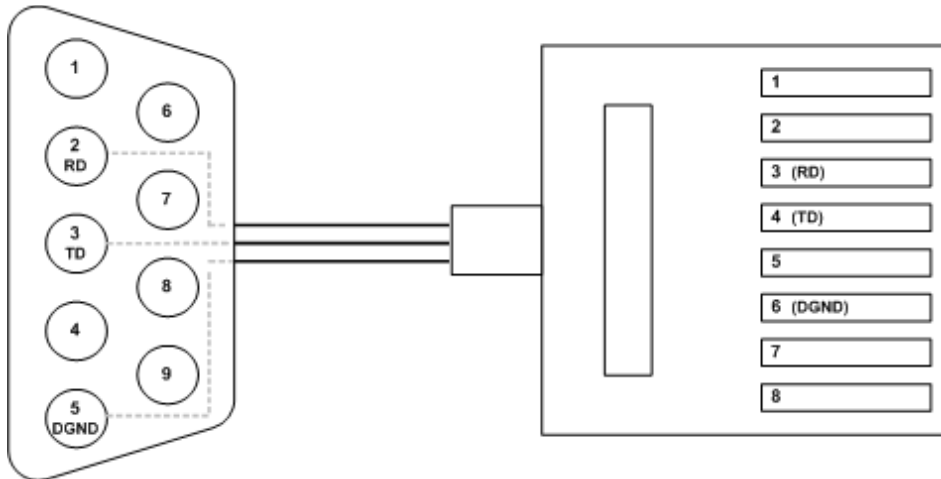
Console Connection

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 VX-IGP-1204F; 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 Managed Switch

1. Connecting to the Ethernet port (RJ45 Ethernet port) of Managed Switch.
2. **Factory default IP: 192.0.2.1**
3. Login with default account and password.
Username: admin
Password: (none)

CLI Initialization & Configuration (Optional)

1. Connecting to the Ethernet port(RJ45 Ethernet port) of Managed Switch
2. Key-in the command under Telnet: **telnet 192.0.2.1**
3. Login with default account and password.
Username: admin
Password: (none)
4. Change the IP with commands listed below:

CLI Command:

```
enable
configure terminal
interface vlan 1
ip address xxx.xxx.xxx.xxx xxx.xxx.xxx.xxx
exit
```

LED STATUS INDICATIONS

LED Name	Indicator /color	Condition
P1/P2	On Green	P1/P2 power line has power
	Off	P1/P2 power line disconnect or does not have power supplied
Alarm	On Red	Ethernet link fails, alarm or power failure alarm occurs
	Off	No Ethernet link fails and no power failure alarm
Copper port Link/Act	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	On Yellow	A 1000Mbps connection is detected
	Off	No link, a 10Mbps or 100 Mbps connection is detected
SFP port Link/Act	On Green	Ethernet link up
	Off	Ethernet link down
SFP port Speed	On Yellow	SFP port speed 1000Mbps connection is detected.
	Off	No link or a SFP port speed 100Mbps connection is detected
POE LED	On Yellow	POE is detected
	Off	No link