GIGAMEDIA

Quick Installation Guide
GGM INS5R4P1S

1. Overview

The GGM INS5R4P1S is an Unmanaged Hardened PoE switch perfectly suited for extreme industrial environments and an ideal solution to deploy in surveillance systems. The switch is designed to meet the requirements of both power and data transmission over single Ethernet cable to PoE appliances and devices without the need for power outlets, eliminating additional cost of   electrical cabling and circuits. The switch's rugged case and hardened components withstand high degree of vibration, shock and wide operating temperatures from -10°C~60°C. The GGM INS5R4P1S features 5 10/100/1000Base-T ports and 1 Gigabit SFP slot to satisfy new and evolving network demands. With 4 IEEE 802.3af/at compliant ports, the switch provides up to 30W per port to meet the growing demand of higher power consuming network devices such as wireless access points, IP cameras, and other powered devices (PDs).

2. Package Checklist

Before installing GGM INS5R4P1S, verify that the package contains the following items:

- GGM INS5R4P1S Switch x 1
- DIN Rail Kit x 1
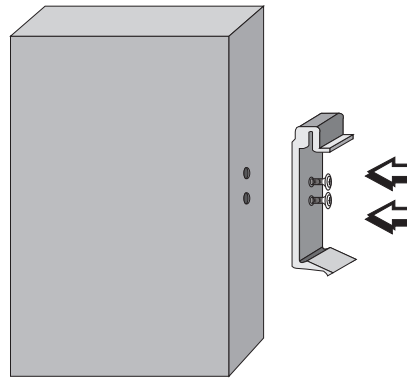- Quick Installation Guide x 1

3. Hardware Installation Procedure
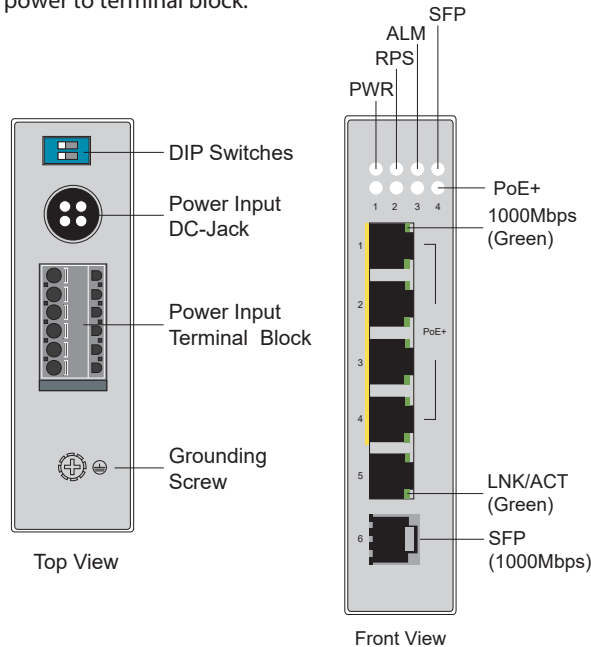
STEP 1:
Take out the device from its packing.

STEP 2:
Attach the DIN Rail Kit as picture.

STEP 3:
Connect Power Adapter to DC-Jack or connect 48~57VDC power to terminal block.
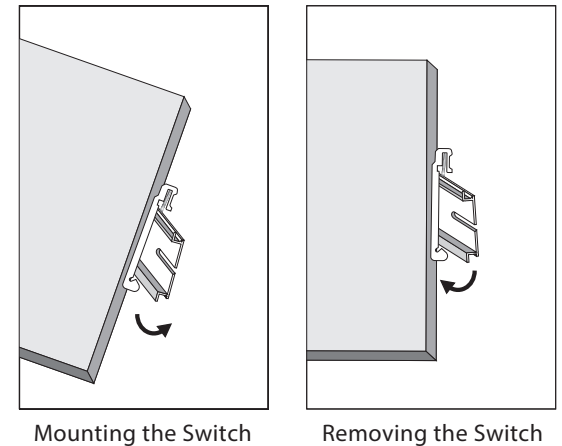
DIP Switches

Power Input DC-Jack

Power Input Terminal Block

Grounding Screw

Top View

PWR
RPS
ALM
SFP

PoE+
1000Mbps
(Green)

1 2 3 4

1
2
3
4
5
6

PoE+

LNK/ACT
(Green)

SFP
(1000Mbps)

Front View

STEP 4:
Connect the Ethernet (RJ-45) port to the networking device. See the LNK/ACT LED to confirm that the connection is established.

4. Location

The HSN-8415P can be DIN-Rail-mounted in cabinet or enclosure.

DIN-Rail-mounted with GGM INS5R4P1S

Mounting the Switch   Removing the Switch

5. Cabling RJ-45

The RJ-45 ports on the GGM INS5R4P1S support auto negotiation and auto MDI/MDI-X. This feature eliminates the worry of using specific cable types.
Category 5e cable or above should be used

6. Redundant Power Inputs

⚠️ **Safety first**

Turn the power off before connecting modules or wires. The correct power supply voltage is listed on the product label. Check the voltage of your power source to make sure that you are using the correct voltage. Do NOT use a voltage greater than what is specified on the product label.

Calculate the maximum possible current in each power wire and common wire. Observe all electrical codes dictating the maximum current allowable for each wire size. If current go above the maximum ratings, the wiring could overheat, causing serious damage to your equipment.

⚠ **ATTENTION:**
Please use a power supply from 48~57VDC, the device power shall be supplied by SELV circuit.
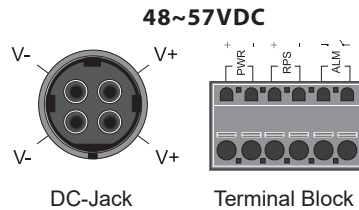
⚠ **ATTENTION**
We strongly request that each Industrial PoE switch to connect to individual power supply. Please don't use one power supply to two or more PoE switches at a time.

6.1. Wiring the Redundant Power Inputs
You can use either "DC-Jack" or "Terminal Block (PWR)" for primary power and "Terminal Block (RPS)" for secondary power source, to be a Redundant Power Input. Top views of DC-Jack and Terminal Block are shown as picture.

48~57VDC

V-   V+
V-   V+

DC-Jack   Terminal Block

Redundant Power Input: Choose either "DC-Jack" or "Terminal Block (PWR)" as primary power. If you choose "Terminal Block (PWR)", please refer to option 1, unless follow option 2.
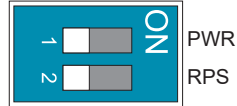
Option 1:
Insert the terminal block connector which includes "PWR" and "RPS" into the terminal block receptor.

Option 2:
Insert the "DC-Jack" connector into "DC-Jack" receiver and "Terminal Block (RPS)" into terminal block receptor.

Notice: *Connect power cables to terminal block*
Use your finger to press the orange plug on top of terminal block connector to insert power cables.

6.2. DIP Switch Setting

PWR
RPS

PWR	ON: Master power alarm reporting is enabled
	OFF: Master power alarm reporting is disabled
RPS	ON: Redundant power alarm reporting is enabled
	OFF: Redundant power alarm reporting is disabled

7. LED Indicators

PWR (Green)	Illuminated	Terminal block PWR / DC-Jack power is connected
	Off	Terminal block PWR / DC-Jack power fails or is not available
RPS (Green)	Illuminated	Terminal block RPS is connected
	Off	Terminal block RPS fails or is not available
ALM (Red)	Illuminated	PWR/RPS fails or is not available
	Off	No alarm to report
10/100/ 1000 Mbps (Green)	Illuminated	Copper ports speed at 1000Mbps
	Off	Copper ports speed at 10/100Mbps
LNK/ ACT (Green)	Illuminated	Copper port link-up
	Blinking	Data is transmitting / receiving
	Off	Port disconnected or link failed
SFP (Green)	Illuminated	SFP port link-up at 1000Mbps
	Blinking	Data is transmitting / receiving
	Off	Port disconnected or link failed
PoE 1st~4th port (Green)	Illuminated	PoE device is connected
	Off	No PoE power output or no PoE connected PoE devices