



USER MANUAL

AVCOMM 200/2000 Series Industrial Ethernet Switch User Manual

Doc ID:	TG-200-2000-UM-EN
Version:	1.0
Date:	2026-08-12
Author:	AVCOMM Engineering

TABLE OF CONTENTS

1. Features	3
2. LEDs	3
3. Port Connection Diagram	4
4. DIN-Rail Mounting	4
4.1 Suggested Installation Method	4
4.2 Suggested Removal Method	4
5. Power Connection Diagram	5
6. RELAY	5
7. DIP Switch Setting	6
7.1 Settings for the Ethernet Switch Functions	6
7.2 Settings for Power Alarm	7
7.3 Settings for Alarm Buzzer	7
7.4 Settings for Port Alarm	7

Note: This product is only for indoor use. Please read the following safety notes carefully to protect the users and the devices. If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired. Indoor pollution degree 2. The device must be wiped with a soft dry cotton cloth.

1. Features

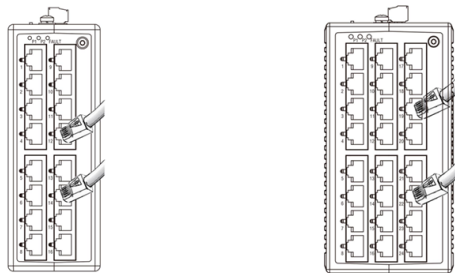
- Protocol: IEEE802.3 10/100/1000M
- Electrical/Optical Ports:
 - 16 x 10/100/1000M RJ45 ports (AVCOMM 2016GT)
 - 24 x 10/100/1000M RJ45 ports (AVCOMM 2024GT)
- Input Voltage: 12/24/48VDC (9.6~60VDC) & 24VAC (18~30VAC, 50/60Hz) Class 2
- Power Consumption: <10W
- Size (W x H x D: mm):
 - 52 x 140 x 110 (AVCOMM 2016GT)
 - 72 x 140 x 110 (AVCOMM 2024GT)
- Weight: <1.0KG
- Operating Temperature: -40°C ~ 75°C (IP30)
- Installation: DIN Rail-mounted (indoor; in industrial control cabinet etc.; ambient temperature $\leq 75^{\circ}\text{C}$ for IP30, $\leq 60^{\circ}\text{C}$ for IP40)
- Pollution Degree: 2
- Altitude: Up to 2000m
- Humidity: 5%~95%, No Condensation

2. LEDs

LED	Color	State	Description
Power 1/2 (P1/P2)	Green	On	When power supply of power 1/2 (PWR 1/2) is normal
		Off	When power supply of power 1/2 (PWR 1/2) is abnormal
Fault	Red	On	If DIP enabled, it means one line of the power supply fails or there is trouble on a certain port
		Off	If DIP enabled, it means both lines of power supply are normal and all ports work normally
Ports	Green	On	When the port is active and linked at 1000 Mbps
		Blinking	When the port's data is being transmitted at 1000 Mbps

LED	Color	State	Description
Ports	Orange	On	When the port is active and linked at 100/10 Mbps
		Blinking	When the port's data is being transmitted at 100/10 Mbps
Ports	Green / Orange	Off	When the port is inactive or link down

3. Port Connection Diagram



The diagrams above illustrate the port layout of the AVCOMM 2016GT (16-port) and AVCOMM 2024GT (24-port) models, for installation reference only. The actual product may differ.

4. DIN-Rail Mounting

4.1 Suggested Installation Method

- 1 Make sure there is enough space for installation and good ventilation where you select to install the device.
- 2 Insert the upper lip of the DIN-rail kit into the mounting tail as arrow 1 in Figure 1 shows. Press the device towards the mounting rail until it snaps into place, as arrow 2 in Figure 1 shows.

4.2 Suggested Removal Method

- 1 Press down the device a little bit as arrow 1 in Figure 2 shows.
- 2 Slightly pull the device forward and lift it up to remove it from the mounting rail, as arrows 2 and 3 in Figure 2 show.

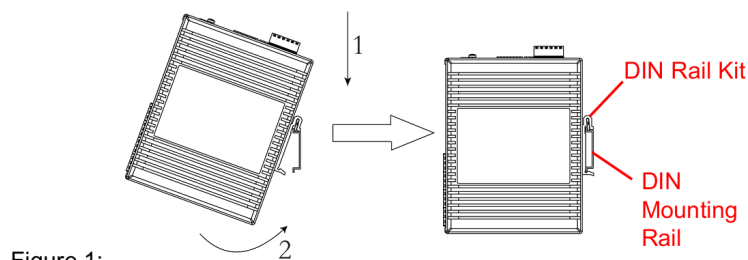


Figure 1:

Figure 1: DIN-Rail installation method

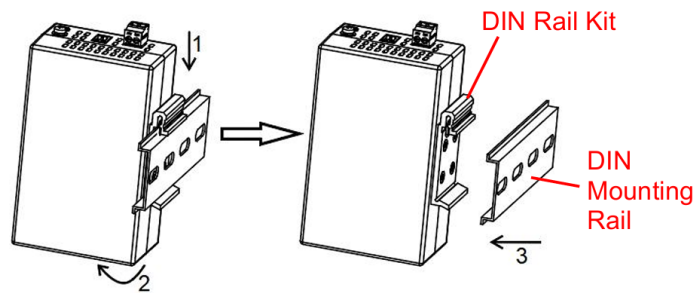
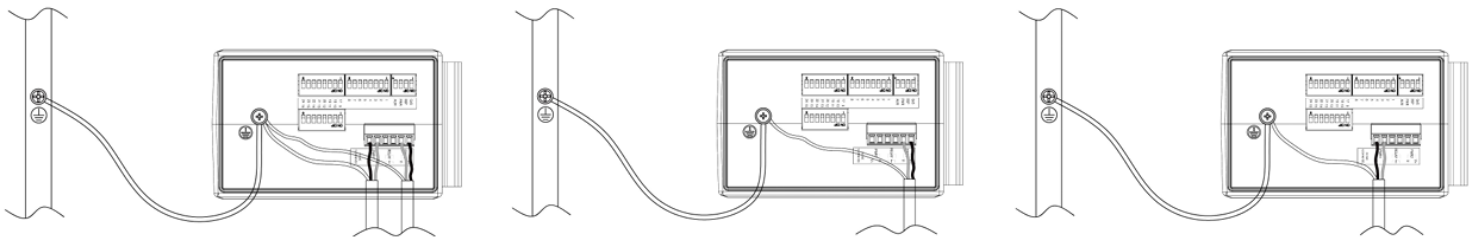


Figure 2:

Figure 2: DIN-Rail removal method

Note: The above pictures are only for the reference of installation, and do not represent the real switch.

5. Power Connection Diagram



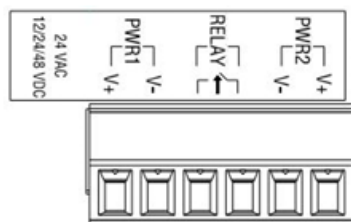
[NOTE]:

- Before connecting the device to the AC/DC power inputs, make sure the AC/DC power source voltage is stable.
- L/+ end is connected to the positive AC/DC wire. N/- end is connected to the negative AC/DC wire.
- Available wire size for the power connection is 26~16AWG, and the applicable torque for the power connection terminal is 0.2N·m.
- The maximum working temperature of the power connection wire should be lower than 80°C.
- The connection conductor type of the power connection wire must use copper conductors only.
- Available wire size for the earth ground is 10AWG, and the applicable tightening torque for the earth ground is 5N·m~6N·m. Grounding resistance <0.1Ω.

Note: The above pictures are for the power connection method of this series of switches, and do not represent the real switch.

6. RELAY

RELAY



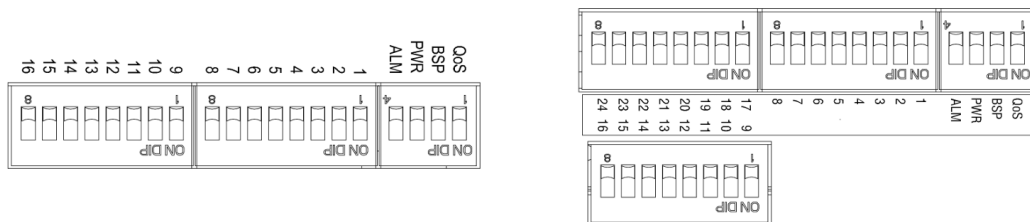
The max voltage/current of the relay is 30V/1A (general use & resistive load), and the tightening torque is 0.2N·m. The RELAY is OPEN before power is supplied, and it closes after power is supplied and the device is operating normally.

The RELAY will change to the OPEN state if either of the following occurs:

- 1 One line of the power supply fails, and the corresponding DIP switch is enabled (ON); or
- 2 One port is not linked, and the corresponding DIP switch is enabled (ON).

7. DIP Switch Setting

DIP Switch Setting



The diagrams above show the top-panel DIP switch layout for the AVCOMM 2016GT and AVCOMM 2024GT models (from left to right: port alarm switches, ALM, PWR, BSP, QoS).

This series of switches allows users to enable or disable the Quality of Service (QoS) function, Broadcast Storm Protection (BSP), Power Alarm (PWR), Alarm Buzzer (ALM), and Port Alarm, using the DIP switch on the top panel.

7.1 Settings for the Ethernet Switch Functions

DIP Switch	Setting	Description
QoS	ON	Enable the Quality of Service function to handle packet priorities in four WRR queues. See the QoS and ToS/DSCP priority mapping matrix below.
QoS	OFF	Disable the Quality of Service function
BSP	ON	Enable Broadcast Storm Protection (at a maximum of 2000 broadcast packets per second) for each Ethernet port
BSP	OFF	Disable Broadcast Storm Protection

QoS Priority Mapping Matrix:

CoS Priority	7,6	5,4	3,2	1,0
ToS/DSCP Priority	63 to 48	47 to 32	31 to 16	15 to 0
Queues	3	2	1	0
WRR	8	4	2	1

7.2 Settings for Power Alarm

DIP Switch	Setting	Description
PWR	ON	Enable the power alarm (if there is trouble on one line of the power supply, an alarm is triggered, the FAULT LED lights up, and the RELAY opens)
PWR	OFF	Disable the power alarm

7.3 Settings for Alarm Buzzer

DIP Switch	Setting	Description
ALM	ON	Enable the alarm buzzer (when there is an alarm, the buzzer sounds)
ALM	OFF	Disable the alarm buzzer (no buzzing when there is a malfunction)

7.4 Settings for Port Alarm

DIP Switch	Setting	Description
1-16 / 1-24	ON	Enable the port alarm (if the port is not linked, an alarm is triggered, the FAULT LED lights up, and the RELAY opens)
1-16 / 1-24	OFF	Disable the port alarm

Tip: The switch must be power-cycled after changing DIP switch settings for the new settings to take effect. Please enable each function based on actual application requirements to avoid unnecessary alarms caused by enabling functions such as port alarm unintentionally.