



AVCOMM 200 Series

Industrial Switch

User Manual



AVCOMM Technologies Inc.

200 Series Switch

User Manual

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About This Manual

This user manual is intended to guide a professional installer to install and configure the switch. It includes procedures to assist you in avoiding unforeseen problems.



NOTE:

Only qualified and trained personnel should be involved with installation, inspection, and repairs of switch.

Disclaimer

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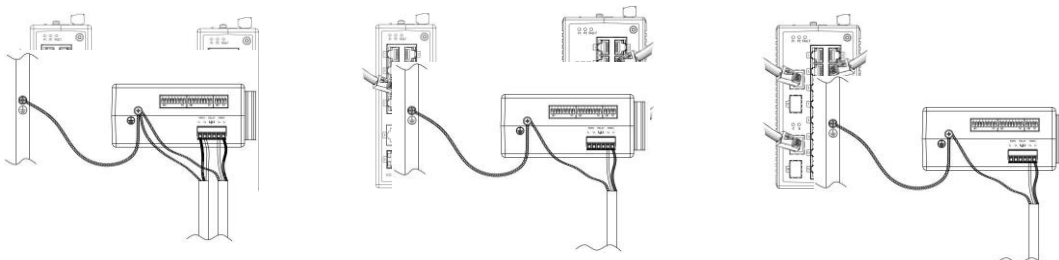
FEATURES

- **Protocol:** IEEE802.3 10/100/1000M
- **Electrical/Optical Ports:**
 - 205TX: 5 x 10/100 BaseT(X) RJ-45 ports
 - 208TX: 8 x 10/100 BaseT(X) RJ-45 ports
 - 216TX: 16 x 10/100 BaseT(X) RJ-45 ports
- **Input Voltage:** 12/24/48VDC & 24VAC Class
- **Power Consumption:** <10W
- **Size:**
 - 52mm (W) x 140mm (H) x 110mm (D)
 - 72mm (W) x 140mm (H) x 110mm (D)
- **Weight:** <1.2KG
- **Operating Temperature:** -40°C~75°C (IP30) or -10°C ~ 60°C (IP40)
- **Humidity:** 5%~95%, non-condensing

LEDS

LED	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 certain port.
		Off	If DIP enabled, it means both lines of power supply are normal and all the ports work normally.
Ports (Full 1000M)	Green	On	When the port is active and links on 1000 Mbps.
		Blinking	When the port's data is being transmitted at 1000 Mbps.
	Amber	On	When the port is active and links on 100/10Mbps.
		Blinking	When the port's data is being transmitted at 100/10Mbps.
Green / Amber	Off	When the port is inactive or link down.	
Ports (Full 100M)	Green	On	When the port is active and links.
		Blinking	When the port's data is being transmitted.
		Off	When the port is inactive or link down.

Port Connection Diagram



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.

DIP Switch Setting

The switch 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 with DIP switch on the outer panel.

Settings for Ethernet switches:

DIP Switch	Setting	Description																				
QoS	ON	Enable the quality of Service to handle packet priorities in four WRR queues. QoSand ToS/DSCP priority mapping matrix in each queue.																				
		<table border="1"> <thead> <tr> <th>CoS Priority</th> <th>7,6</th> <th>5,4</th> <th>3,2</th> <th>1,0</th> </tr> </thead> <tbody> <tr> <td>ToS/DSCP Priority</td> <td>63 to 48</td> <td>47 to 32</td> <td>31 to 16</td> <td>15 to 0</td> </tr> <tr> <td>Queues</td> <td>3</td> <td>2</td> <td>1</td> <td>0</td> </tr> <tr> <td>WRR</td> <td>8</td> <td>4</td> <td>2</td> <td>1</td> </tr> </tbody> </table>	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
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	Queues	3	2	1	0																	
WRR	8	4	2	1																		
	OFF	Disables the Quality of Service																				
BSP	ON	Enables broadcast storm protection (at a maximum of 2000 broadcast packets persecond) for each Ethernet port.																				
	OFF	Disable the broadcast storm protection.																				

Settings for Power Alarm

DIP Switch	Setting	Description
PWR	ON	Enable the power alarm (If there is trouble on one line of power supply, there is alarm, the FAULT LED light is on and RELAY open).
	OFF	Disable the power alarm.

Settings for Alarm Buzzer

DIP Switch	Setting	Description
ALM	ON	Enable the buzzer of alarm (When there is alarm, the buzzer buzzes with sound).
	OFF	Disable the buzzer of alarm (there will be no buzzing when there is malfunction).

Settings for Port Alarm

DIP Switch	Setting	Description
1-18	ON	Enable the port alarm (If the port is not linked, there is alarm, the FAULT LED light is on and RELAY open).
	OFF	Disable the port alarm.

The RELAY is OPEN before power supplied, and it is closed after power supplied and all is OK. The RELAY will be OPEN if: ① one of the power supply fails and the DIP switch is on, OR ② one port is not linked and the DIP switch is on.