

M12 Industrial PoE Switch

POE-SW508G-M12



User's Manual

Industrial PoE Switch

4 Technical specifications

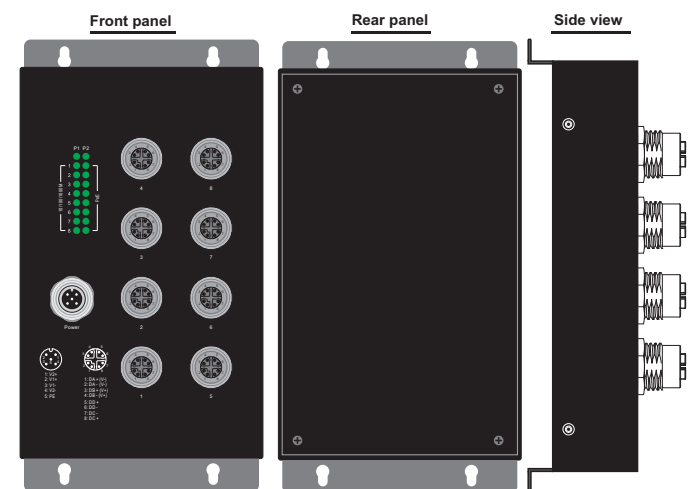
Project	Describe
Attributes	
Networking Interfaces	8x 10/100/1000Mbps M12(Female), 8-Pin X-Coded Connector 1x M12 5-Pin A-Coded Male Connector (DC Power Input)
LED Indicators	P1,P2, Link/Act, PoE
Copper Cable	
10Base-T	2-pair UTP/STP Cat. 3,4,5/5E,6 cable EIA/TIA-568 100-ohm (100m)
100Base-T	2-pair UTP/STP Cat. 5/5E,6 cable EIA/TIA-568 100-ohm (100m)
1000Base-T	4-pair UTP/STP Cat. 5E,6 cable EIA/TIA-568 100-ohm (100m)
Performance	
Switching Capacity	16 Gbps
Forwarding Capacity	11.9 Mpps
Forwarding Mode	Store and Forward
Packet Buffer Memory	2 Mbit
MAC Address Table	4K
Performance	
Dimensions	200 x 110 x 90 mm
Operating Temperature	-40 to 75°C
Storage Temperature	-40 to 85°C
Operating Humidity	5 to 95% Noncondensing
Power Method	44~57VDC (M12 A-Code male Connector)
Power Consumption	15W (Without PoE load); 150W (Full PoE load)
Casing	Metal
Installation	Wall mounting
Power over Ethernet	
PoE ports	1-8
PoE Standard	IEEE802.3af, IEEE802.3at
PoE Power Budget	135W
Max. PoE Wattage per Port	30W
PoE Voltage	52V
PoE Pin Assignment	V- (RJ45 Pin1,2), V+ (RJ45 Pin 3,6)

Industrial PoE Switch

2 Product Introduction

Thanks for purchasing the switch products.

This is a EN50155 industrial PoE Switch, The product conforms to the requirements of industrial standard EN50155 and EN50121. Support 4 Gigabit M12 PoE interfaces. interfaces use (X-Coded) Female Connect firm and reliable M12 connectors and IP30 aluminum enclosure which can adapt to usage scenario with vibration and shock. adopt wall mounting, which can meet the needs of different application sites. It is best for railway in train/track side, vehicle and mining applications, supports wide operating temperature from -40~75°C.



LED	Color	Status	Description
P1	Green	On	Power input 1 is active
		Off	Power input 1 is inactive
P2	Green	On	Power input 2 is active
		Off	Power input 2 is inactive
Link/Act	Yellow	Lights	The switch network network device interface is properly connected to a port, the corresponding indicator light
		Flashing	Port if the data stream, the corresponding port Flashing
		Extinguish	Check the connection of the network cable is intact, the joint is loose
PoE (1 to 8)	Green	Lights	The current PoE output is enabled
		Flashing	Overload occurred (>30Watts) at the connected PD
		Extinguish	The current PoE output is disabled

1 About guide

This guide provides instructions to install the Switch.



Note: The model you have purchased may appear slightly different from the illustrations shown in the document. Refer to the Product Instruction and Technical Specification sections for detailed information about your switch, its components, network connections, and technical specifications.

This guide mainly divided into 4 parts:

1. About guide: Terminology/Copyright and statement
2. Product introduction: functional overview and introduction of panel definitions
3. Hardware installation: step by step hardware installation process
4. Technical specifications

Terminology / Usage



Note: indicates important information that helps a better use of the device.



Warning: indicates potential property damage or personal injury.

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Power Inputs

- Connection format: M12 5-Pin A-Coded Male Connector
- Input voltage: 44-57VDC
- Dual DC power inputs for power redundancy
- Suggest using UL listed industrial power supply
- Minimum Wire Gauge: 18AWG
- Pin assignment of M12 power connector:

Illustration	Pinouts	Function
	1	Power Input (V2+)
	2	Power Input (V1+)
	3	Power Input (V1-)
	4	Power Input (V2-)
	5	PE (ground wire)

Ethernet Ports

M12 Interface (Auto MDI/MDIX)

- Connection format: M12 8-Pin X-Coded Female Connector
- Transmission rate: 10/100/1000 Mbit/s
- Pin assignment of M12 Ethernet connector:

Illustration	Pinouts	Signal	Mark
	1	Transmit Data + (TX+)	DA+ (V-)
	2	Transmit Data (TX-)	DA- (V-)
	3	Receive Data + (RX+)	DB+ (V+)
	4	Receive Data (RX-)	DB- (V+)
	5	Bidirectional data (+)	DD+
	6	Bidirectional data (-)	DD-
	7	Bidirectional data (-)	DC-
	8	Bidirectional data (+)	DC+

3 Hardware installation

This chapter provides unpacking and installation information for the Switch.

open a seal

Open the shipping carton and carefully unpack its contents. Please consult the packing list located in the User Manual to make sure all items are present and undamaged. If any item is missing or damaged, please contact the local reseller for replacement.

- → Switch 1pcs
- → User's manual 1pcs

switch installation

For safe switch installation and operation, it is recommended that you:

- Make sure that there is proper heat dissipation and adequate ventilation around the switch.
- Do not place heavy objects on the switch.

Wall-mounting

Follow the steps below to mount the switch to a wall using the screw holes.

Step 1. Prepare 4 screws for mounting the switch to a wall.

Step 2. Based on the positions of 4 screw holes on the side of the switch to make 4 screw holes on a wall accordingly.

Step 3. Insert the screws through the screw holes on the switch and screw the switch into the wall.

Step 4. To remove the switch from the wall, do the opposite from the steps above.

