

Industrial Unmanaged Gigabit Ethernet Switch

EMG8305 Series

Hardware Installation Guide

Version 1.1 Updated in Aug. 2024



Package Check List

Inside the package you will find the following items:

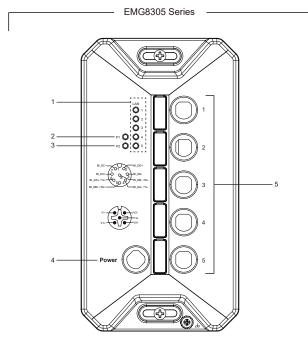
- Industrial Managed Gigabit Ethernet Switch x 1
- Installation Guide with Warranty Card x 1

Never install or work on electrical or cabling during periods of lightning activity. Never connect or disconnect power when hazardous gases are present.



Warning:Hot Surface Do Not Touch.

Product Layout

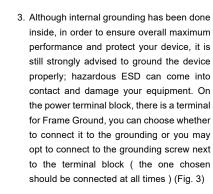


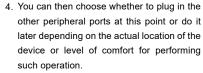
Note: // is for function ground

- 1. LAN Port LED
- 2. PWR1 LED
- 3. PWR2 LED
- 4. 5-pin A-Coding Male of the power connector
- 5. 10/100/1000BaseT(X) 8-pin A-Coding Female or 8-Pin X-Coding Female

Installation Overview

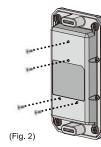
- 1. Proceed to place the screws on the back of the device as show in (Fig. 1).
- 2. If you have the Din-rail kit, proceed to as show in (Fig. 2)



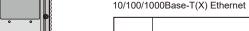


5. If you have purchased the DIN-Rail kit, Once the plate has been firmly put in place, proceed to mount the whole device as shown in (Fig. 4). Proceed to (Fig. 5) if you want to remove the device from DIN-Rail.









M12 X-coded	3 2 1 8							
1000Base-T								
Pin	1	1 2 3 4 5 6 7 8						
Signal	BI_DA+	BI_DA-	BI_DB+	BI_DB-	BI_DD+	BI_DD-	BI_DC-	BI_DC+
10/100Base-T(x)								
Pin	1	2	3	4	5	6	7	8
Signal	Tx+	Tx-	Rx+	Rx-		·		

6. Next we can then proceed to connect the device to the LAN (switch or PC, depending on the case), take care on using the M12 connector; after this we

■ The housing has a good thermal conductivity material, so the heat can be

Deacription

Ethernet is active and data is being transmitted

Ethernet is active and data is being transmitted

Power is supplied through PWR1or PWR2

Ethernet is linked at 10/100Mbps

Ethernet is linked at 1000Mbps

Ethernet is not linked

Ethernet is not linked

Pin Assignments and Connections

dissipated to the outside through the housing by conduction-convection.

Power is off

can then proceed to the device's settings

State

Blinking

LED Indicators

Green

Amber

Green

LED Color

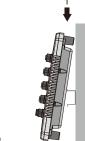
PWR1

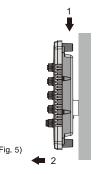
PWR2

LAN

Compatible with, and recommended to use the following models:

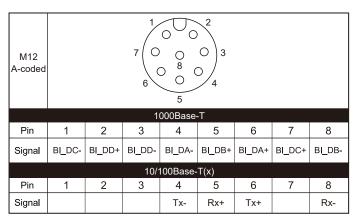
MPM Model name	Specification	Manufacturer
1682935	A code(Female) to free cable End , 5 pin , 1.5M, shielded	Phoenix Contact
1407472	X-code(Male) to RJ45, 8 pin, 2M, shielded	Phoenix Contact





The device's appearance is as in the figure below.

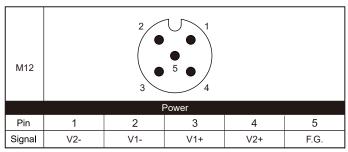
- place the screws on the back of the device



Compatible with, and recommended to use the following models:

MPM Model name	Specification	Manufacturer
1669767	A code(Male) to free cable End, 5 pin, 1.5M, un-shielded	Phoenix Contact
1407415	A code(Male) to RJ45, 8 pin, 2M, shielded	Phoenix Contact

Power Pinouts



Note : F.G. - Functional Ground

Field Maintenance and Service

If the device requires servicing of any kind, you may need to disconnect and remove it from its mounting. The initial installation should be done in a way that makes this as convenient as possible.

- Voltage/Power lines should be properly insulated as well as other cables. Be careful when handing the so as to not trip over
- Do not under any circumstance open the device for any reason. Please contact your dealer for any repair needed or follow the instructions on section of your User's Manual.



Attention

- 1. The device needs to be installed in an area of pollution degree 2 or less.
- If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may not be impaired.
- 3. Clean the device with soft cloth with dry.
- The installation that the safety of any system incorporating the equipment is the responsibility of the assembler of the system
- 5. It should be installed suitable Enclosure (at least Type 1 or equal rating)

Power Requirements

■ Power input: 12 – 48 VDC
■ Current Input: 12V@ 0.42A
■ Power Consumption: 5W Max

■ The device is open type , designed redundant input and supplied by SELV power source

■ Cable Assembly Requirement : Minimum suitable used at 80°C

■ Cable Assembly Information:

Company	Cat no	Suitable Cable Size	For Connector
Phoenixcontact	1411043	AWG26	Lan Port-EMG8305-M12-X
Phoenixcontact	1421679	AWG26	Lan Port-EMG8305-M12-A
Phoenixcontact	1413992	AWG22	Power Port

Environmental Limits

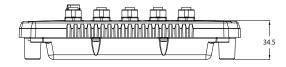
- Operating Temperature: -40 to 75° C (-40° F to 167° F)
- Storage Temperature: -40 to 85°C (-40 to 185°F)
- Ambient Relative Humidity: 5 to 95%, 55°C (non-condensing)
- Altitude : up to 2,000 m
- IP67
- Lan and Power Port Cap Information

Company	Cat. No.	Туре	Torque	
ATOP / Phoenixcontact	3990079G/1560251	Power port Plastic	0.2 Nm	
ATOP / Phoenixcontact	59908571G/1430488	Power port Metal	0.2 Nm	
ATOP / Phoenixcontact	3990078G/1553129	Lan port Plastic	0.2 Nm	
ATOP / Phoenixcontact	59908561G/1503302	Lan port Metal	0.2 Nm	

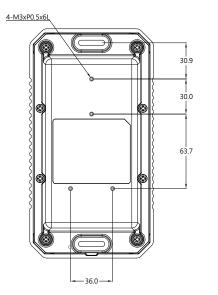
Mechanical Dimensions (Unit=mm)

196.0 172.0 100.0 100.0

Side View



Bottom View



※The Din-rail kit illustrated in this document is for reference only and is not included in package.

Warranty Policy

Warranty Conditions

Products supplied by ATOP Technologies are covered in this warranty for sub-standard performance or defective workmanship. The warranty is not, however, extended to goods damaged in the following circumstances:

- (a) Excessive forces or impacts
- (b) War or an Act of God: wind storm, fire, flood, electric shock, earthquake
- (c) Use of unqualified power supply, connectors, or unauthorized parts/kits
- (d) Replacement with unauthorized parts

RMA and Shipping Costs Reimbursement

Customers shall always obtain an authorized "RMA" number from ATOP before shipping the goods to be repaired to ATOP. When in normal use, a sold product shall be replaced with a new one within 3 months after purchase. The shipping cost from the customer to ATOP will be reimbursed by ATOP.

After 3 months and still within the warranty period, it is up to ATOP whether to replace the unit with a new one; normally, as long as a product is under warranty, all parts and labor are free of charge to the customers.

After the warranty period, the customer shall cover the cost for parts and labor. Three months after purchase, the shipping cost from the customer to ATOP will not be reimbursed, but the shipping cost from ATOP to the customer will be paid by ATOP.

Limited Liability

ATOP shall not be held responsible for any consequential losses from using ATOP's product.

Warranty Period

Product Categories	Warranty	Product Categories	Warranty
Ethernet Switches		DIN-Rail Power Supplies	3 Years
Wireless		11	
Serial Device Servers		Power Adaptors	1 Year
Modbus Gateways	5 Years	Antennas	
Media Converters		7 titorina o	
Embedded Device Servers		Other Accessories	

The warranty certification will not be effective until an authorized stamp issued by ATOP's overseas agents.

Purchase Date:	1	/	(yyyy/mm/dd)	
Serial Number				

ATOP Customer Services and Support

- Contact your local dealers or ATOP Technical Support Center at the following number: +886-3-550-8137