

Industrial Unmanaged Gigabit Ethernet Switch

EMG8305 Series

Hardware Installation Guide

Version 1.0 Updated in December, 2016



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P/N:89900496G

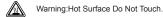
Package Check List

Inside the package you will find the following items:

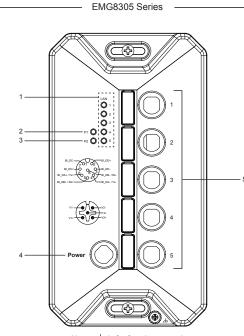
Industrial Managed Gigabit Ethernet Switch x 1

Installation Guide with Warranty Card x 1

Never install or work on electrical or cabling during periods of lightning activity. 14 Never connect or disconnect power when hazardous gases are present.



Product Layout



Note: H 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

(Fig. 1)

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

4. You can then choose whether to plug in the other peripheral ports at this point or do it later depending on the actual location of the device or level of comfort for performing such operation.

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 place the screws on the back of the device as show in (Fig. 2)

(Fig. 4)

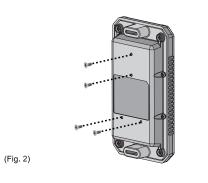
LED C

PWR1

PWR2

LAN

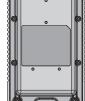
The housing has a good thermal conductivity material, so the heat can be dissipated to the outside through the housing by conduction-convection





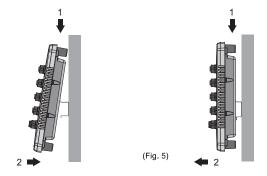
3. Although internal grounding has been done inside, in order to ensure overall maximum performance and protect your device, it is still strongly advised to ground the device properly; hazardous ESD can come into contact and damage your equipment. On the power terminal block, there is a terminal for Frame Ground, you can choose whether to connect it to the grounding or you may opt to connect to the grounding screw next to the terminal block (the one chosen should be connected at all times) (Fig. 3)





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.



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 can then proceed to the device's settings

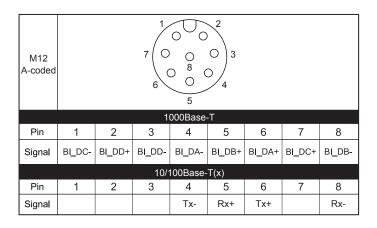
LED Indicators

Color	State	Deacription	
Green	On	Power is supplied through PWR1or PWR2	
Green	Off	Power is off	
	On	Ethernet is linked at 10/100Mbps	
Amber	Blinking	Ethernet is active and data is being transmitted	
	Off	Ethernet is not linked	
Green	On	Ethernet is linked at 1000Mbps	
Gleen	Blinking	Ethernet is active and data is being transmitted	
	Off	Ethernet is not linked	

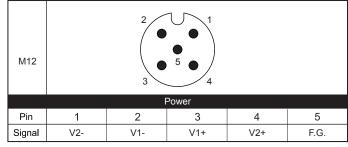
Pin Assignments and Connections

10/100/1000Base-T(X) Ethernet

M12 X-coded								
1000Base-T								
Pin	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-				



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 vour User's Manual.

Attention

- 1. The device needs to be installed in an area of pollution degree 2 or less.
- 2. 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 drv.
- 4. 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

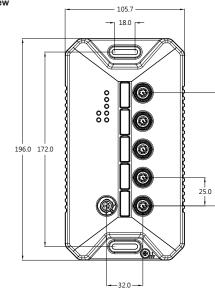
Company	Cat no	Suitable Cable Size	For Connector
Phoenixcontact	1411043	AWG26	Lan Port-EMG8305-M12-X
Phoenixcontact	1421679	AWG26	Lan Port-EMG8305-M12-A
Phoenixcontact	1413992	AWG22	Power Port

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. Torque Type Atop / Phoenixcontact 3990079G/1560251 Power port Plastic 0.2 Nm Atop / Phoenixcontact 59908571G/1430488 Power port Metal 0.2 Nm Atop / Phoenixcontact 3990078G/1553129 0.2 Nm Lan port Plastic Atop / Phoenixcontact 59908561G/1503302 Lan port Metal 0.2 Nm

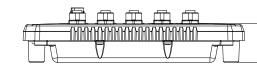
Mechanical Dimensions (Unit=mm)

Front View

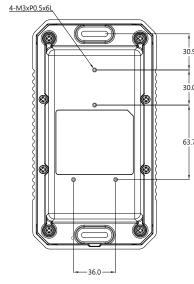


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Bottom View



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

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

product.

Warranty Period

Produc Ethernet S Wireless Serial Devi Modbus G Media Cor Embedded

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

Purchase Date (yyyy/mm/dd)

Serial Number

- Taiwan, R.O.C.

Warranty Policy

Warranty Conditions

(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

Atop shall not be held responsible for any consequential losses from using Atop's

Warranty	Product Categories	Warranty	
	DIN-Rail Power Supplies	3 Years	
5 Years	Power Adaptors	1 Year	
	Antennas		
	Other Accessories		
		5 Years DIN-Rail Power Supplies Power Adaptors Antennas	

Atop Customer Services and Supports

1. Please contact your local dealers or Atop Technical Support Center at the following numbers.

+ 886-3-550-8137 (Atop Taiwan)

+ 86-21-6495-6232 (Atop China)

2. Please report the defected problems via Atop's Web site or E-mail account Web Site : www.atop.com.tw, e-mail : service@atop.com.tw

Web Site : www.atop.com.cn, e-mail : service@atop.com.cn

3. Company Addr: 2F. No. 146. Sec. 1. Tung-Hsing Rd., Jubei, Hsinchu 30261.

Manufacturer Addr: 1st FL 30 R&D RD II SCIENCE-BASED INDUSTRIAL PARK, HSINCHU 300 TAIWAN, R.O.C

- Any changes to this material will be announced on Atop website. -