

Atop Technologies, Inc.

Industrial Managed Gigabit Ethernet Switch

EMG8508 / EMG8510 Series EMG8608 / EMG8610 Series

Hardware Installation Guide

Version 0.1 Updated in June, 2016



www.atop.com.tw

P/N:89900497G

Package Check List

Inside the package you will find the following items:

- Industrial Managed Gigabit Ethernet Switch x 1
- Protective caps for all SFP ports (Depend on purchased model)
- 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.

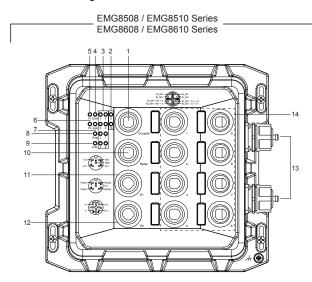


Warning:Hot Surface Do Not Touch.



Caution: CLASS 1 LASER PRODUCT. Do not stare into the laser!

Product Layout



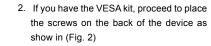
- 1. M12 A-Coding Console Port
- 2. SFP Ports LEDs (for EMG8510 Series)
- 3. M12 X-coding Ethernet ports and/or PoE LEDs

10/100/1000 BASE-T(X) PoE M12 X-coding Ethernet Ports (EMG8508-4PoE/EMG8510-4PoE-2SFP, PoE ports at Port 1,2,5,6)

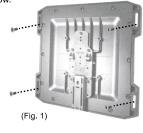
Installation Overview

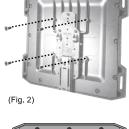
The device's appearance is as in the figure below.

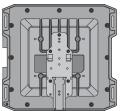
1. Proceed to place the screws on the back of the device as show in (Fig. 1).



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)







(Fig. 3)



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.

Remeber to plug in the protective caps for the unused SFP.

- 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



Detail setting please set on Web UI.

Name	Color	Status	Message
P1	1 On Power is su		Power is supplied from PWR1/PWR2
P2	Green	Off	No power input detected from PWR1/PWR2
	Dad	On	Alarm is triggered by user defined events
Alarm	Red	Off	Alarm is not triggered by user defined events
RUN	Green	Blinking	AP firmware is running normally
IXOIN	Gleen	Off	System is not ready or halt
		On	Ethernet is linked
	Green	Blinking	Ethernet is active and data is being transmitted
LAN		Off	Ethernet is not linked
	Amber	On	Power is being supplied to a Powered Device (PD)
		Off	Power is not supplied to a PD
		On	Ring is enabled
Ring	Green	Blinking	Ring is connected successfully
		Off	Ring is disabled
R.M	Green	On	The device is a Master of the ERPS or IA-Ring
K.IVI		Off	The device is a Slave of the ERPS or IA-Ring
SFP		On	Port is linked
	Green	Blinking	Data is transmitting on this port
		Off	No data is transmitting

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

■ This switch's factory IP by default is 10.0.50.1 you can access the device by its

Web UI once it is connected to a physical network (or using Management Utility,

for more information on Management Utility, please refer to its manual). Please

be aware that the PC needed for this procedure needs to be in the same

subnet, or you may refer yourself to the device User's Manual

*Management Utility only support user name, password and IP address change.

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



Power Requirements

■ Power input: 50 – 145 VDC, 0.27A max. (For High voltage Models)

12 - 57 VAC, 0.19A max. (For Non-PoE Models)

45 - 57 VDC, 3.08A max. (For 802.3af Models)

51 - 57 VDC, 5.03A max. (For 802.3at Models)

- Alarm output: 1A@24A VDC SELV for signal use only
- 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-M12-X Phoenixcontact 1413991 AWG26 Lan Port-M12-A Phoenixcontact 1404642 AWG26 Power Power Port-M12-S

Pin Assignments and Connections

10/100/1000Base-T(X) Ethernet, PoE port Pinouts

M12 X-coded	5 6 7 8								
			1	000Base	-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+	Тх-	Rx+	Rx-					
	PoE								
Pin	1	2	3	4	5	6	7	8	
Signal	V+	V+	V-	V-					

RS232 Console port Pinouts

·								
M12 A-coded	1 0 0 0 0 0 5 0 4 3							
RS232-Console								
Pin	1	1 2 3 4 5						
Signal	TXD	RXD	NC	NC	GND			

Relay output port Pinout

M12 A-coded	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						
Pin	1 2 3 4 5						
Signal	Relay1_2	Relay2_1	Relay2_2	Relay1_1	NC		

Power port Pinouts

M12 S-coded	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)						
	Power						
Pin	1 2 3 4						
Signal	VIN+	VIN+ VIN- NC FG					

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 ma nufacturer, the protection provided by the equipment may not be impaire d.
- 3. Clean the device with soft cloth with dry.
- 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)

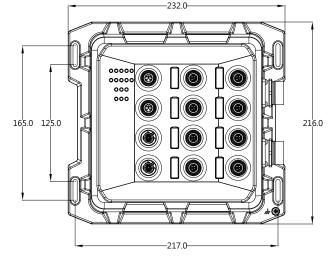
Environmental Limits

- Operating Temperature: -40 to 70° 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

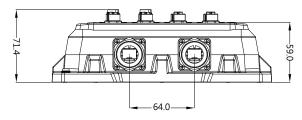
Cat. No.		Type Torque
hoenixcontact 3990079G	/	1560251 Power port Plasti c 0.2 Nm
hoenixcontact 59908571G	/	1430488 Power port Metal 0.2 Nm
hoenixcontact 3990078G	/	1553129 Lan port Plastic 0.2 Nm
hoenixcontact 59908561G	/	1503302 Lan port Metal 0.2 Nm
	hoenixcontact 3990079G hoenixcontact 59908571G hoenixcontact 3990078G	hoenixcontact 3990079G / hoenixcontact 59908571G / hoenixcontact 3990078G /

Mechanical Dimensions (Unit=mm)

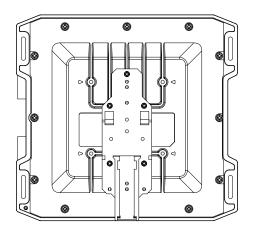
Front View



Side View (for EMG8510 Series)



Bottom View



* The wall Din rail kit illustrated in this document is for reference only and is not included in the 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				
Serial Device Servers	5 Years	Power Adaptors	1 Year	
Modbus Gateways		Antennas		
Media Converters		7 titorinao		
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	1	(yyyy/mm/dd)
Serial Number			

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, Taiwan, R.O.C.

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. -