Atop Technologies, Inc.

Unmanaged Gigabit Ethernet Switch

EHG3305 / EHG3005 Series

Hardware Installation Guide

Version 1.0
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Package Check List

Inside the package you will find the following items:

- Industrial Unmanaged Ethernet Switch x 1
- 5-Pin 5.08mm Lockable Terminal Block (Already mounted to the device) x 1
- DIN-Rail Kit (Already mounted to the device) x 1
- Installation Guide with Warranty Card x 1

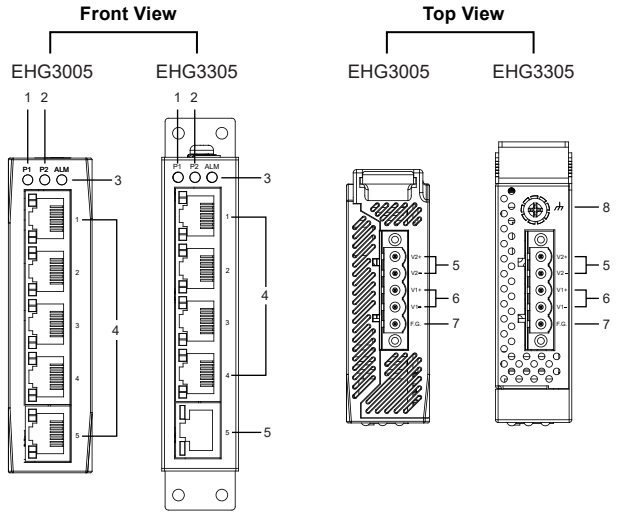
Never install or work on electrical or cabling during periods of lighting activity.
Never connect or disconnect power when hazardous gases are present.

Warning: Hot Surface Do Not Touch. RESTRICTED ACCESS AREA: The equipment should only be installed in a Restricted Access Area.

Product Technical Specification

1. Power input: 12-48VDC, 0.5A max.
2. Operating Temperature:
   - EHG3305: -40 to 70° C (-40° F to 158° F)
   - EHG3005: 0 to 60 ° C (32° F to 140° F)
3. Storage Temperature:
   - EHG3305: -40 to 85°C (-40°F to 185°F)
   - EHG3005: -20 to 70°C (-4°F to 158°F)
4. Ambient Relative Humidity: 5 to 95%, 55°C (non-condensing)
5. Enclosure Protection: IP30 protection

Product Layout

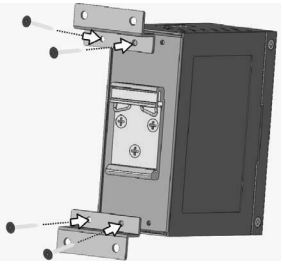


1. P1 LED
2. P2 LED
3. Alarm LED
4. 10/100/1000 BASE-T(X) Ports
5. Terminal for P2
6. Terminal for P1
7. Functional Ground
8. Grounding Screw

Installation Overview

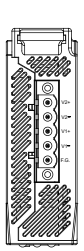
The device's appearance is as in the figure below.

1. If you have purchased the wall mount kit, proceed to place the screws on the back of the device as shown in (Fig. 1)

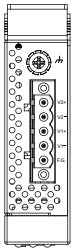


(Fig. 1)

2. 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 with it 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. 2~3).



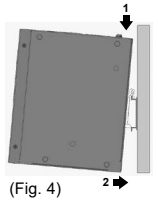
(Fig. 2)



(Fig. 3)

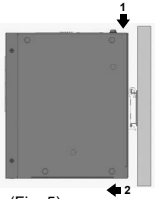
3. You can then choose whether to plug in the I/O ports at this point or do it later depending on the actual location of the device or level of comfort for performing such operation. Remember to plug in the protective caps for the unused SFP and PoE ports.

4. Wall mount Screw spec. : M3
Screw depth : 4.0 mm(Max)
Screw : 4 PCS



(Fig. 4)

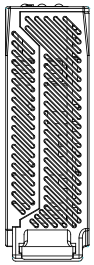
5. Once the plate has been firmly put in place, proceed to mount the whole device as shown in (Fig. 4).
Proceed to (Fig. 5) if you want to remove the device from DIN-Rail.



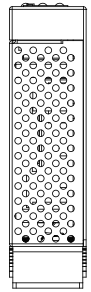
(Fig. 5)

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 RJ-45 connector; after this we can then proceed to the device's settings.

7. Din Rail screw
Screw spec. : M4
Screw depth: 6.0mm(Max.)
Screw : 3 pcs



(Fig. 6)



(Fig. 7)

- The opening to the sides are for the device's heat dissipation please never obstruct or cover them with any objects or try to insert them through it. Please keep minimum 5 CM distance with others device. (Fig. 2~3 & Fig. 6~7)

LED Indicators

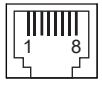
LED	Color	State	Description
P1/P2	Green	On	Power is supplied from P1/P2
		Off	No power input detected from P1/P2
ALM	Red	On	P1 or P2 input is disconnected or failed
		Off	Power input status is normal
LAN	Amber	On	Ethernet is linked at 10/100Mbps
		Blinking	Ethernet is active and data is being transmitted
		Off	Ethernet is not linked
	Green	On	Ethernet is linked at 1000Mbps
		Blinking	Ethernet is active and data is being transmitted
		Off	Ethernet is not linked

Attention

- It is recommend to use at least 20 AWG cable and the cable needs to be resistant to at least 85°C on the power connector.
- Torque applied to the Terminal block's screw should be 4.5 in. lb (0.51 Nm)
- The device needs to be installed inside a Type 1 housing.
- ⏚ Frame or chassis terminal (châssis ou borne de chassis)
- The device is open type equipment.
- Use copper conductor only.
- This device needs to be installed in an area of pollution degree 2 or less D. If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.
- Clean the device with a soft dry cloth.
- Use only SELV or UL61010-1 double insulation evaluated power source or 61010-2-201 power supply.
- The device with 5 RJ-45 ports for your industrial applications. It designs to work in the industrial environment, such as in hazardous locations that comply with CE, FCC and UL standards. The slim design is useful for the application with limited cabinet space.

Pin Assignments and Connections

10/100/1000BASE-T(X) Ethernet and PoE Pinouts

RJ-45								
10/100BASE-T(X)								
Pin	1	2	3	4	5	6	7	8
Signal	Tx+	Tx -	Rx+			Rx-		
1000BASE-T								
Pin	1	2	3	4	5	6	7	8
Signal	BI_DA+	BI_DA-	BI_DB+	BI_DC+	BI_DC-	BI_DB-	BI_DD+	BI_DD-

Field Maintenance and Service

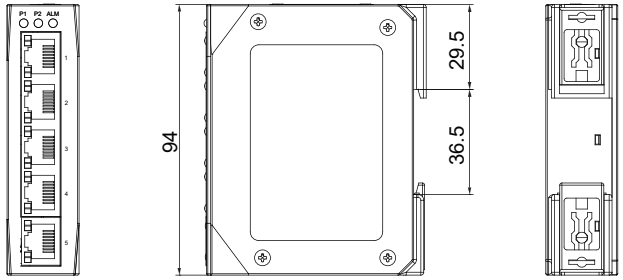
If the device requires servicing of any kind, you may need to disconnect and remove it from its mounting. The initial installation should be done in a way that makes this as convenient as possible.

- 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 insert foreign objects of any kind into the heat dissipation holes located in the different faces of the device. This may not only harm the internal layout but might cause harm to you as well.
- 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.

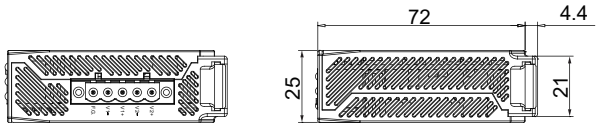
Mechanical Dimensions (Unit=mm)

EHG3005

Front View / Side View / Rear View

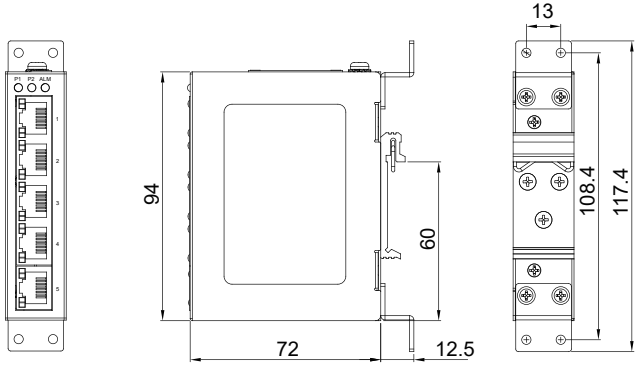


Top View / Bottom View

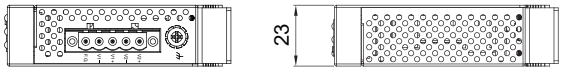


EHG3305

Front View / Side View / Rear View



Top View / Bottom View



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	5 Years	DIN-Rail Power Supplies	3 Years
Wireless		Power Adaptors	1 Year
Serial Device Servers			
Modbus Gateways		Antennas	
Media Converters		Other Accessories	
Embedded Device Servers			

The warranty certification will not be effective without an authorized stamp issued by ATOP or ATOP's overseas agents.

Purchase Date: / / (yyyy/mm/dd)

Serial Number

ATOP Customer Service and Support

1. Please contact your local dealers or ATOP Technical Support Center at the following number: +886-3-550-8137
2. Please report any problems via ATOP's website or email
   www.atoponline.com service@atop.com.tw