

Industrial Ethernet to Fiber Media Converter

EF24 Series

Hardware Installation Guide

Version 1.3 Updated in July, 2015



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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 show in (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 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. 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.

(Fig. 3)

(Fig. 4)

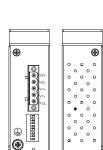
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4. Once the plate has been firmly put in place, proceed to mount the whole device as shown in (Fig. 4). Proceed to (Fig. 5) if you want to remove the device from DIN-Rail.

(Fig. 2)

- 5. 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
- The openings to the sides are for the device's heat dissipation, please never obstruct or cover them with any objects or try to insert any objects through them.



Package Check List

Inside the package you will find the following items:

- Industrial Ethernet to Fiber Media Converter 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
- SFP Protective cap x1 (For SFP model only)

hazardous gases are present.

Hot Surface Do Not Touch.

Warning:

Product Layout

EF24-1G-1SFP

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Installation Guide with Warranty Card x 1



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

Never install or work on electrical or cabling during periods of

lightning activity. Never connect or disconnect power when

RESTRICTED ACCESS AREA: The equipment should only be

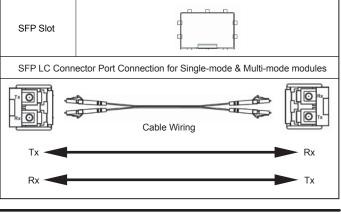
Front View



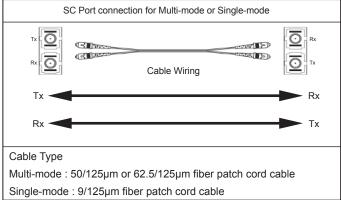
installed in a Restricted Access Area.

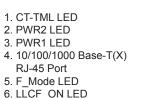


Top View



Caution





7. Tx LLCF LED 8. Fx Link LED 9. Test LED 10. Fx LLCF LED 11. 100 Base-FX or 1000 Base-X SFP Slots 12. 100/1000 Base-X SC connector

EF24-1G-1Fm-SC-550M

EF24-1G-1Fs-SC-10

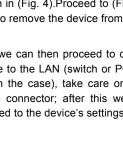
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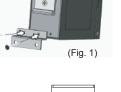
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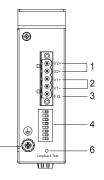
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- 1. Terminal for PWR2
- 2. Terminal for PWR1
- 3. Frame Ground
- 4. DIP Switches
- 5. Grounding Screw
- 6. Loopback test Button

100 Base-FX or 1000 Base-X Fiber Optics SFP Slot

The SFP slot should be used in conjunction with a MSA compliant optical transceiver

100/1000 Base-SX / LX Fiber Port

DIP Switch

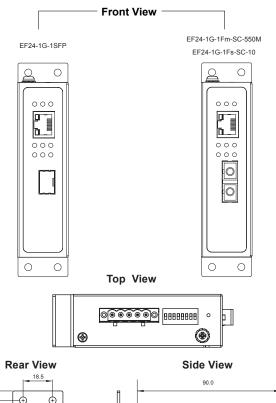
Pin	Mode	OFF	ON
1	Function Mode	Media Converter	Repeater
2	Fiber Speed	1000Base-X	100Base-FX
3	Link Transparency	Disable	Enable
4	Terminal/ Center mode	Terminal	Center
5	Power Save Mode	Disable	Enable
6	Fiber Auto Negotiation	Enable	Disable
7	Jumbo Frame (9KB)	Disable	Enable
8	Cut-Through Mode	Disable	Enable

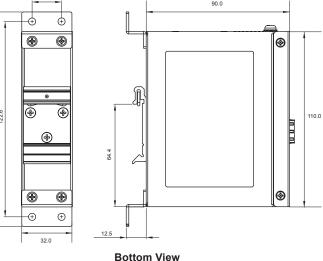
Note: The device will read the DIP switch values only at the device's initialization time. Please ensure to power OFF and power ON the device to allow the new DIP switch values to take effect

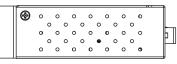
LED Indicators

LED	Color	Status	Description	
PWR1	Green	ON	Power is being supplied through this power input	
PWR2		OFF	Power is not supplied through this power input	
CT-TMI	Green	ON	The device operates as a center media converter	
		OFF	The device operates as a terminal media converter	
F Mode	Green	ON	Cut-Through Mode	
F_Wode		OFF	Smart Pass-Through Mode	
LLCF ON	Green	ON	The link transparency is enabled	
LLCF_ON		OFF	The link transparency is disabled	
	Green	ON	The link is connected and no traffic is detected	
Fx_Link		OFF	The link is disconnected	
		Blinking	Data is transmitting or receiving	
	Green	ON	The test passed (LED ON after testing for 3 seconds)	
Test		OFF	The test failed (LED OFF after testing for 3 seconds)	
		Blinking	The loopback test is in progress	
	RED	ON	The Fiber/Copper port is forced to link down	
Fx_LLCF			by LLCF	
Tx_LLCF		OFF	The Fiber/Copper port is not forced to link down by LLCF	
TX Link/Act	ct Green	ON	The link is connected and no traffic is detected	
		Blinking	Data is transmitting or receiving	
		ON The link is connected at 1000 Mbps.		
TX_Speed	eed Yellow	OFF	The link is connected at 10 or 100 Mbps if	
			TX_Link/Act is ON or blinking	

Unit Dimensions and Layout (unit=mm)







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.

Don 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.

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 Ethernet Wireless Serial De Modbus (

Embedde

Media Co

DIN-Rail

Power Ad Antennas

Other Acc

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

Purchase I

Serial Num

account

Categories	Warranty
Switches	
evice Servers	5 Years
Gateways	
ed Device Servers	
onverters	
Power Supplies	3 Years
daptors	
S	1 Year
cessories	

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

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

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