

Industrial Ethernet to Fiber Repeater

EF24 Series

Hardware Installation Guide

Version 1.1 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) 2 🔿

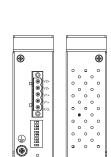
(Fig. 4)

4. Once the plate has been firmly put in place, proceed to mount the whole device as shown in (Fig. 3).Proceed to (Fig. 4) 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.

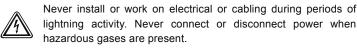
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Package Check List

Inside the package you will find the following items:

- Industrial Ethernet to Fiber Repeater 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 caps x 2 (For SFP model only)
- Installation Guide with Warranty Card x 1





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

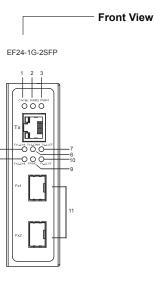


(Fig. 1)

Hot Surface Do Not Touch.

RESTRICTED ACCESS AREA: The equipment should only be installed in a Restricted Access Area.

Product Layout



1. CT-TML LED 2. PWR2 LED 3. PWR1 LED 4. 10/100/1000 Base-T(X) RJ-45 Port 5. Fx1 Link LED 6. Fx1 OAM LED

7. Tx LLCF LED 8. Fx2 Link LED 9. FP/MC LED 10. Fx LLCF LED 11. 100 Base-FX or 1000 Base-X SFP Slots 12. 100/1000 Base-X SC connectors

EF24-1G-2Fm-SC-550M

EF24-1G-2Fs-SC-10

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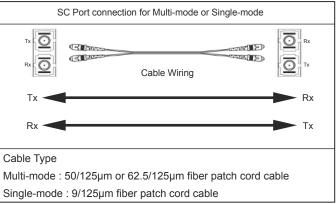
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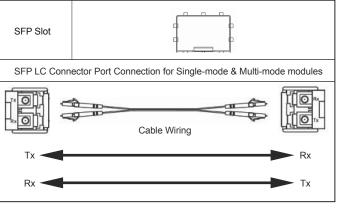
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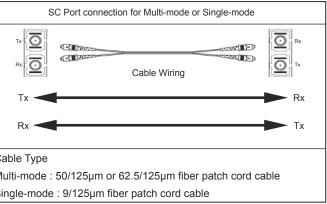


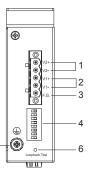


Top View



Caution





- 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.

1000 Base-SX / LX Fiber Port

DIP Switch

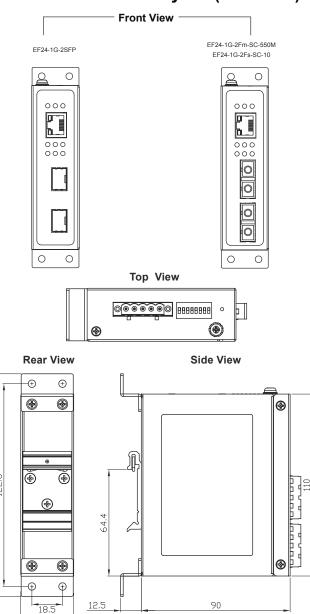
Pin	Mode	OFF	ON
1	Function Mode	Media Converter	Repeater
2	Fiber Speed	1000Base-X	100Base-FX
3	Link Transparency	Disable	Enable
4	Terminal/ Center mode	Terminal	Center
5	Power Save Mode	Disable	Enable
6	Fiber Auto Negotiation	Enable	Disable
7	Jumbo Frame (9KB)	Disable	Enable
8	Cut-Through Mode	Disable	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-TML	Green	ON	The device operates as a center media converter		
CI-IML		OFF	The device operates as a terminal media converter		
FP/MC	Green	ON	Fiber repeater mode		
TEAMO		OFF	Media converter mode		
Fx1_Link	Green	ON	The link is connected and no traffic is detected		
		OFF	The link is disconnected		
Fx2_Link		Blinking	Data is transmitting or receiving		
	Green	ON	The test passed (LED ON after testing for 3 seconds)		
Fx1_OAM		OFF	The test failed (LED OFF after testing for 3 seconds)		
		Blinking	The loopback test is in progress		
Fx LLCF	RED	ON	The Fiber/Copper port is forced to link down 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		
	Yellow	ON	The link is connected at 1000 Mbps.		
TX_Speed		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 your 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.

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Bottom View

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32

Warranty Period

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

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