

Antaira Technologies

LEP-401M-KIT

Industrial IP30 Ethernet Extender, 800 meters,
10/100Mbps Ethernet PoE Extender (1 Pair:
LEP-401M-L and LEP-401M-R)

Quick Installation Guide

Version 1.0
(March 2024)



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Package Checklist

The package contains the following items:

- LEP-401M-L
 - 1 - LEP-401M-L
 - 1 - Two-pin terminal block
 - 1 - Wall mounting bracket set with screws
- LEP-401M-R
 - 1 - LEP-401M-R
 - 1 - Wall mounting bracket set with screws

Panel Layout

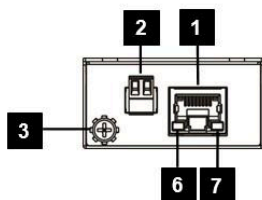


Figure 1. Top Panel of LEP-401M-L

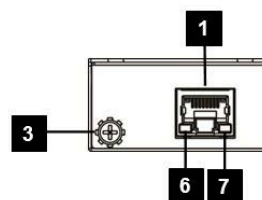


Figure 2. Top Panel of LEP-401M-R

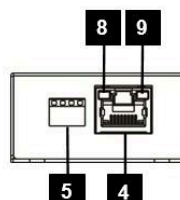


Figure 3. Bottom Panel

No.	Description	No.	Description
1	LAN RJ-45 connector	8	Line speed is in 10Mbps.
2	Power input connectors (For LEP-401M-L)	9	Line speed is in 100Mbps.
3	Grounding connector	10	Wall-mounting holes
4	LINE RJ-45 connector	11	Power LED indicator
5	DIP Switch	12	Power range LED indicator
6	LAN link LED indicator	13	Function table of DIP Switch
7	LFPT LED indicator		

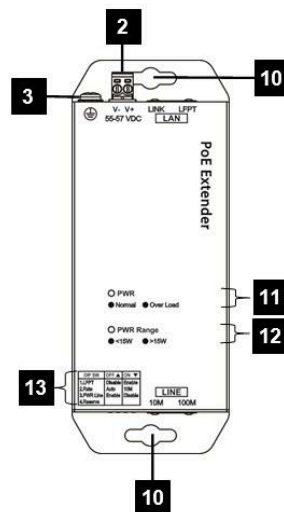


Figure 4. Front Panel

Operating Temperature

- Standard operating temperature model: -40°C to 75°C

Case / Installation

- IP30 protection
- Wall mount design

LED Indicators

LED	Color	State	Descriptions
PWR	Green	On	Power is on
		Off	No Power
	Amber	On	If the following PoE overloading conditions occur, the PWR LED indicator will be lit in Amber. - LEP-401M-L: PoE output > 30W or PoE output errors - LEP-401-R: PoE output > 29W or PoE output errors
		Off	Normal conditions
PWR Range (LEP-401M-L)	Green	On	PoE output < 15W
	Amber	On	PoE output ≥ 15W
PWR Range (LEP-401M-R)	Green	On	PoE output < 15W
		Blinking	Passive PoE mode
	Amber	Off	PoE function is disabled or there is no PoE output under Active PoE mode
		On	PoE output ≥ 15W
LAN LINK	Green	On	LAN side link is up
		Blinking	LAN side link is up and active
		Off	LAN side link is down
LAN LFPT	Amber	On	Link fault pass through function is activated and link loss conditions occur
		Off	LFPT function is off or link operates normally
LINE 10M	Amber	On	LINE side link is up and operates at 10Mbps
		Off	LINE side link is down or operates at 100M
LINE 100M	Green	On	LINE side link is up and operates at 100Mbps
		Off	LINE side link is down or operates at 10Mbps

Product Overview

System Interface / Performance

- Long distance power feeding and data transmission up to 800 meters on 2 or 4 pair UTP cable
- Supports standard IEEE 802.3af/at or passive PoE devices
- Eliminates the need for any power supply at the remote side
- Quick deployment and easy maintenance

Power Input & Connection (For LEP-401M-L)

- DC 55~57V redundant power with a 2-pin removal terminal block
- It is recommended to use a UL listed Industrial Power Supply

DIP Switch Setting

LEP-401M-L

DIP No.	DIP 1	DIP 2	DIP 3	DIP 4
Position	LFPT	Rate	PWR Line	Reserved
OFF	LFPT Off	Auto	Enable	-
ON	LFPT On	10M	Disable	-

LEP-401M-R

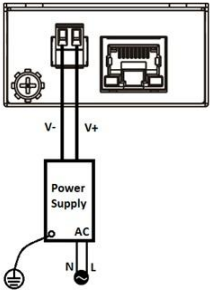
DIP No.	DIP 1	DIP 2	DIP 3	DIP 4
Position	LFPT	PD PWR	PoE Mode	Reserved
OFF	LFPT Off	Enable	Active	-
ON	LFPT On	Disable	Passive	-

Quick Installation

Ethernet Ports
RJ45 Ethernet & PoE Pin Assignments

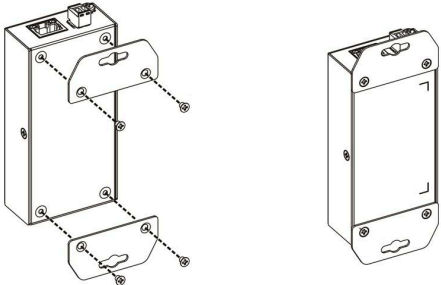
Pin No.	RJ-45 Ethernet 100Base-TX	PoE Output (2 Pair)
1	RX+	V+
2	RX-	V+
3	TX+	V-
4	-	
5	-	
6	TX-	V-
7	-	
8	-	

Power Inputs Wiring
LEP-401M-L extenders are powered up by an external power supply (55VDC~57VDC). To connect to the power supply, insert V+ and V- wire into power contacts. Then, tighten the wire-clamp screws to prevent power wires from loosening. If the power supply is connected correctly, then the PWR LED on the front panel will be lit in green.

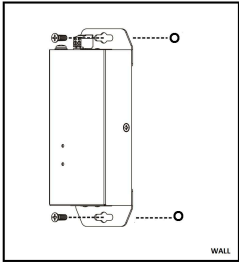


Industrial Switch Mounting

Wall Mounting
Each Ethernet extender comes with a pair of wall-mounting hardware brackets. When installing the wall-mounting brackets, be sure to correctly align the screw holes. Use the screws provided in the wall-mounting kit to securely fasten the brackets.



Once two wall-mounting brackets are securely attached to the device, prepare two appropriate screws for wall-mounting installation.



Field Maintenance and Service

- If the device requires servicing of any kind, the user is required 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 handling them 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 the user 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 within the manual.

WARNING: When connecting PoE ports of an Ethernet Switch to non-standard Ethernet ports of a device, such as those with GND or low voltage surge protection and other alterations to IEEE 802.3 standard, DAMAGE MAY OCCUR to either or both devices. Devices with ports like these should be connected to non-PoE ports on the switch.

Warranty Policy

- Warranty Conditions**
Products supplied by Antaira Technologies are covered in this warranty for substandard 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 Antaira before shipping the goods for repair or replacement.
- Within the warranty period (based on the invoice date), all parts and labor are free of charge to the customers.
 - Customers are responsible for the cost of parts and labor, if the products are out of warranty.
 - For RMA service, customers are responsible for the shipping expense for shipping the RMA unit(s) to Antaira. Antaira is responsible for the shipping expense via a ground service for the return repair/replace unit(s) back to customers.

Limited Liability
Antaira would not be held responsible for any consequential losses from using Antaira's product.

Warranty Period
5-Year Warranty

Antaira's Customer Service and Support
Antaira's Technical Service & Support Centers:
+ 844-268-2472 (Antaira US Headquarter)
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***Any changes will be announced on the Antaira website.**