

MIL-L100i

Single-Port Power over Ethernet Mid-span Injector

User Guide

- Ensures uninterrupted network operation
- Intelligent endpoint detection process
- Easy, cost-effective installation
- Provides a secure central power location



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1. Introduction

Thank you for purchasing MILAN by Transition's MIL-L100i Single Port Power over Ethernet (PoE) Injector. The MIL-L100i provides data and AC power through the Ethernet cable to PoE enabled devices, such as AP, a network camera, or other equipment supporting IEEE 802.3af. The injector is typically installed near the Ethernet switch.

MILAN by Transition's new EmPowered Ethernet™ Series Power over Ethernet solutions deliver unified supply of data, voice, and video as well as electrical power through a single source by sending power over standard Category 5 and above twisted pair cables. Power over Ethernet simplifies installation and eliminates the need to run separate power cords and LAN cables to each Access Point or port locations.

Our new PoE products provide organizations with affordable, easy-to-use solutions that enable them to migrate their network infrastructure to support a growing number of advanced cost-saving, performance enhancing applications, such as streamlining wireless, VOIP, Network IP camera deployments, and centralized power backup solutions. Whether on a factory floor or in an enterprise facility, running power to hard-to-reach locations with our Power over Ethernet solution significantly reduces cabling and outlet requirements while providing the lowest total cost of ownership.

The figure below shows a sample of a Power over Ethernet Injector application.

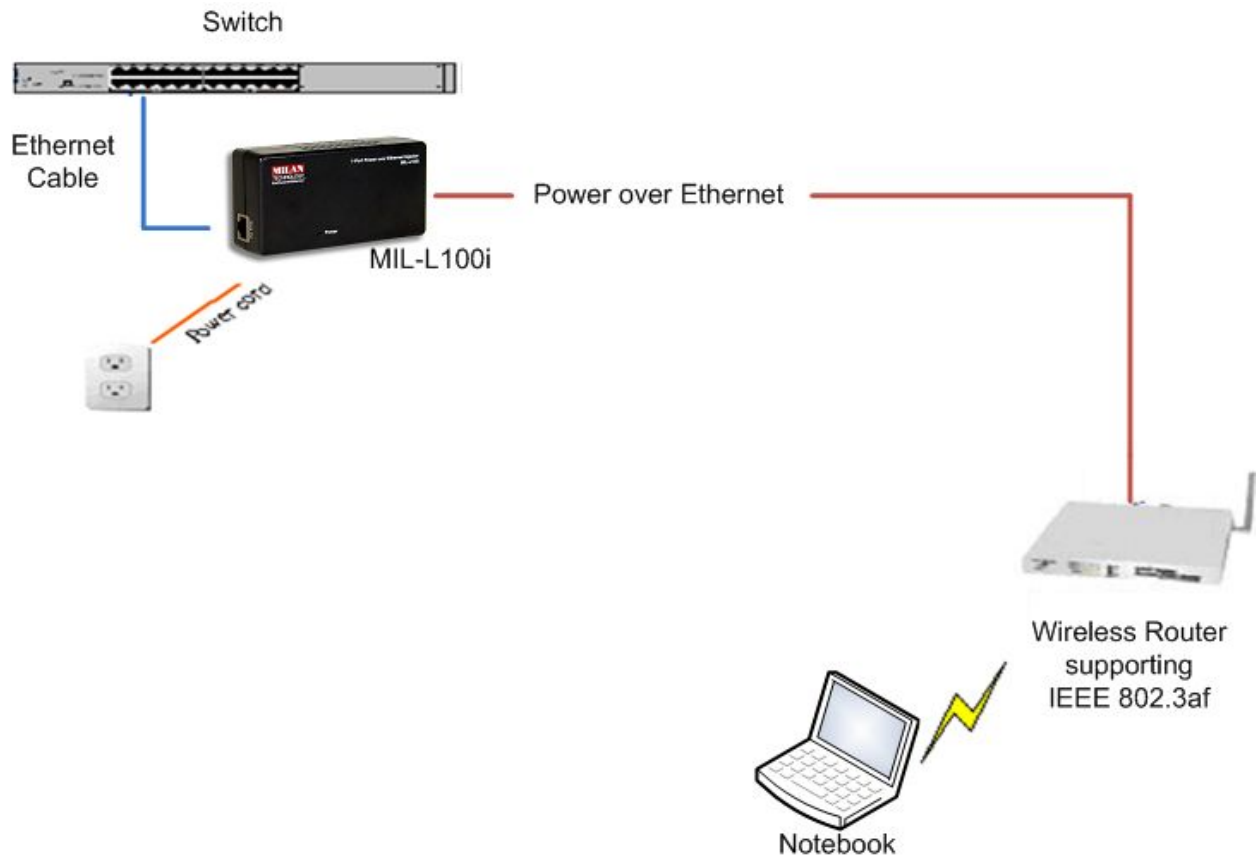


Figure 1-1. Power over Ethernet Injection Application

Regulatory Approvals

- FCC Class A

- UL 1950
- CSA C22.2 No. 950
- EN60950
- CE
- EN55022 Class A
- EN55024

Canadian EMI Notice

This Class A digital apparatus meets all the requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

European Notice

Products with the CE Marking comply with both the EMC Directive (89/336/EEC) and the Low Voltage Directive (73/23/EEC) issued by the Commission of the European Community. Compliance with these directives implies conformity to the following European Norms:

- EN55022 (CISPR 22) - Radio Frequency Interference
- EN61000-X - Electromagnetic Immunity
- EN60950 (IEC950) - Product Safety

Five-Year Limited Warranty

Transition Networks warrants to the original consumer or purchaser that each of its products, and all components thereof, will be free from defects in material and/or workmanship for a period of five years from the original factory shipment date. Any warranty hereunder is extended to the original consumer or purchaser and is not assignable.

Transition Networks makes no express or implied warranties including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose, except as expressly set forth in this warranty. In no event shall Transition Networks be liable for incidental or consequential damages, costs, or expenses arising out of or in connection with the performance of the product delivered hereunder. Transition Networks will in no case cover damages arising out of the product being used in a negligent fashion or manner.

Trademarks

The MiLAN logo and MiLAN Technology trademarks are registered trademarks of MiLAN Technology in the United States and/or other countries.

Features

- Power Over Ethernet Injector
- IEEE802.3af Compliance
- Remote power feeding
- Short circuit protection
- Mix Ethernet and power into RJ-45 port
- Deliver power up to 100 meters
- Light weight and compact size
- Plug-and-Play

Package Contents

Unpack the contents of the package and verify them against the checklist below.

- One MIL-L100i Power over Ethernet Injector
- Power Cord
- User Manual
- Post Card

If any item is missing or damaged, please contact your local dealer for service.

2. Hardware Description

The Power over Ethernet Injector has three connection ports and one LED indicator.

- **Data In port:** RJ-45 Ethernet interface port for data transmitting from the switch to the PoE Injector.



Figure 2-1. Data In and PowerIn ports

- **Power In port:** The Power In port is for supplying the power to the Injector.
- **Data Out port:** RJ-45 Ethernet port with a fixed RJ-45 cable to connect to a PoE Splitter, PD, or PoE Hub.



Figure 2-2. Data Out port

3. Installation

To install the Power over Ethernet Injector, please follow these steps.

1. Use RJ-45 cable from the Data in port on the Power over Ethernet Injector to the Ethernet Switch.
2. Use RJ-45 cable from the Data out port on the Power over Ethernet Injector to the network camera, PD (Such as Router, Access Point, etc.) or PoE Hub.
3. Plug in the power cord of the Power over Ethernet Injector to the appropriate power source.
4. Before starting, make sure all connections are correct.

4. Technical Specifications

The following table provides the Power over Ethernet Injector technical specifications.

Standard	IEEE802.3/3u 10BASE-T/100BASE-TX IEEE802.3af Power over Ethernet
Connector	DC out: Power pin: 4,5(V+), 7,8(V-)
Network Cable	10BASE-T: 2-pair UTP/STP Cat.3, 4,5 cable EIA/TIA-568 100-ohm (100m) 100BASE-TX: 2-pair UTP/STP Cat.5 cable EIA/TIA-568 100-ohm (100m)
LED	Green LED indicates PoE Power is now being injected
Power Input	100~240V, 50~60Hz, 0.25A
Output Power	48VDC, 0.3A
Operating environment	0 ° ~ 40 °C
Operating Humidity	90% Humidity (non-condensing)
Storage Temperature	0 ° ~ 70 ° C
Dimensions	117mm x 60mm x 35mm (L x W x H)
EMI & Safety	FCC Class B, CE, UL, cUL, CE/EN60950

Contact Us

Technical support

Technical support is available 24-hours a day
US and Canada: 1-800-260-1312
International: 00-1-952-941-7600

Transition now

Chat live via the Web with Transition Networks Technical Support.
Log onto www.transition.com and click the **Transition Now** link.

Web-based seminars

Transition Networks provides seminars via live web-based training.
Log onto www.transition.com and click the **Learning Center** link.

E-Mail

Ask a question anytime by sending an e-mail to our technical support staff.
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Compliance Information

FCC regulations

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at the user's own expense.

Canadian regulations

This digital apparatus does not exceed the Class A limits for radio noise for digital apparatus set out on the radio interference regulations of the Canadian Department of Communications.
Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la Class A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

European regulations

Warning

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Achtung !

Dieses ist ein Gerät der Funkstörgrenzwertklasse A. In Wohnbereichen können bei Betrieb dieses Gerätes Rundfunkstörungen auftreten. In diesem Fall ist der Benutzer für Gegenmaßnahmen verantwortlich.

Attention !

Ceci est un produit de Classe A. Dans un environnement domestique, ce produit risque de créer des interférences radioélectriques, il appartiendra alors à l'utilisateur de prendre les mesures spécifiques appropriées.



In accordance with European Union Directive 2002/96/EC of the European Parliament and of the Council of 27 January 2003, Transition Networks will accept post usage returns of this product for proper disposal. The contact information for this activity can be found in the 'Contact Us' portion of this document.



CAUTION: RJ connectors are NOT INTENDED FOR CONNECTION TO THE PUBLIC TELEPHONE NETWORK. Failure to observe this caution could result in damage to the public telephone network.

Der Anschluss dieses Gerätes an ein öffentliches Telekommunikationsnetz in den EGMitgliedstaaten verstösst gegen die jeweiligen einzelstaatlichen Gesetze zur Anwendung der Richtlinie 91/263/EWG zur Angleichung der Rechtsvorschriften der Mitgliedstaaten über Telekommunikationsendeinrichtungen einschliesslich der gegenseitigen Anerkennung ihrer Konformität.

Record of Revisions

Rev	Date	Notes
A	10/01/05	Initial release.
B	02/02/09	Manual update.
C	09/10/12	Warranty period update and format changes.

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