

24 Port (up to 15.4 Watts per port) PoE Midspan Injector Installation Guide

IEEE 802.3af
Compliant



Purpose of this Guide

This Guide provides information and procedures for the product installation and operation of the Twenty-Four (24) Port Desktop or 19" 1RU Rackmount Power over Ethernet Midspan Injector (LP-2124). This document is intended for technical personnel responsible for installing and operating Power over Ethernet products in a Local Area Network (LAN) environment. To use this document effectively, you should have a working knowledge of Local Area Networking (LAN) concepts and hardware installation. In addition, you should be familiar with the following: Connection of Patch Cables with RJ45 connectors and the LAN addressing map for your particular Network, Mounting of Network hardware in a 19" equipment rack and local practices for power cord connections.

IMPORTANT SAFETY INSTRUCTIONS FROM LAN-Power

Read and keep these instructions. Follow all instructions and heed all warnings. Do not use this equipment near water and clean only with a dry cloth. Do not block any equipment ventilation openings. Install in accordance with manufacturer's instructions. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. The Mains Power Cord has two blades and will fit into a standard Mains Outlet – DO NOT force the cord into any outlet. Unplug this equipment during lightning storms or when unused for long periods of time. Refer all servicing to qualified service personnel. Servicing is required when the equipment has been damaged in any way, such as power cord or plug damaged, liquid has been spilled, or object has fallen into the equipment, the equipment has been exposed to rain or moisture, does not operate normally, or has been dropped. The AC mains outlet, or appliance coupler shall be readily available to the operator as a means of power disconnection.

WARNING - Only connect equipment to mains power outlet having protective earthing or grounding connection. To reduce the risk of fire or electric shock, do not expose this equipment to rain or moisture.

CAUTION – These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

If You need Help or additional support relating to the contents of this Guide, please contact LAN-Power at (510) 275-4572 or at www.lan-power.com

Before contacting LAN-Power for technical support, please have the following information ready: Your product model number and unit serial number. A description of the failure or symptoms of problem. A description of any action(s) already taken to resolve the problem (e.g., changing ports, rebooting the unit, etc...). The type of End device being powered including Manufacturer name and part number. Powering requirements of the End device. A description of your Network environment (layout, Ethernet switch description, cable type, etc...). The unit history (i.e., have you returned the unit before, is this a recurring problem, etc...)



Please note only qualified personnel should install this unit and read instructions before attempting to install this unit



Verifying Contents of Package - Unpack the PoE Injector and verify that you have all of the following items: 1 x Twenty-Four (24) Port Power over Ethernet Injector, Rackmount Kit and IEC320 inlet 3 Pin- Mains Power Cord

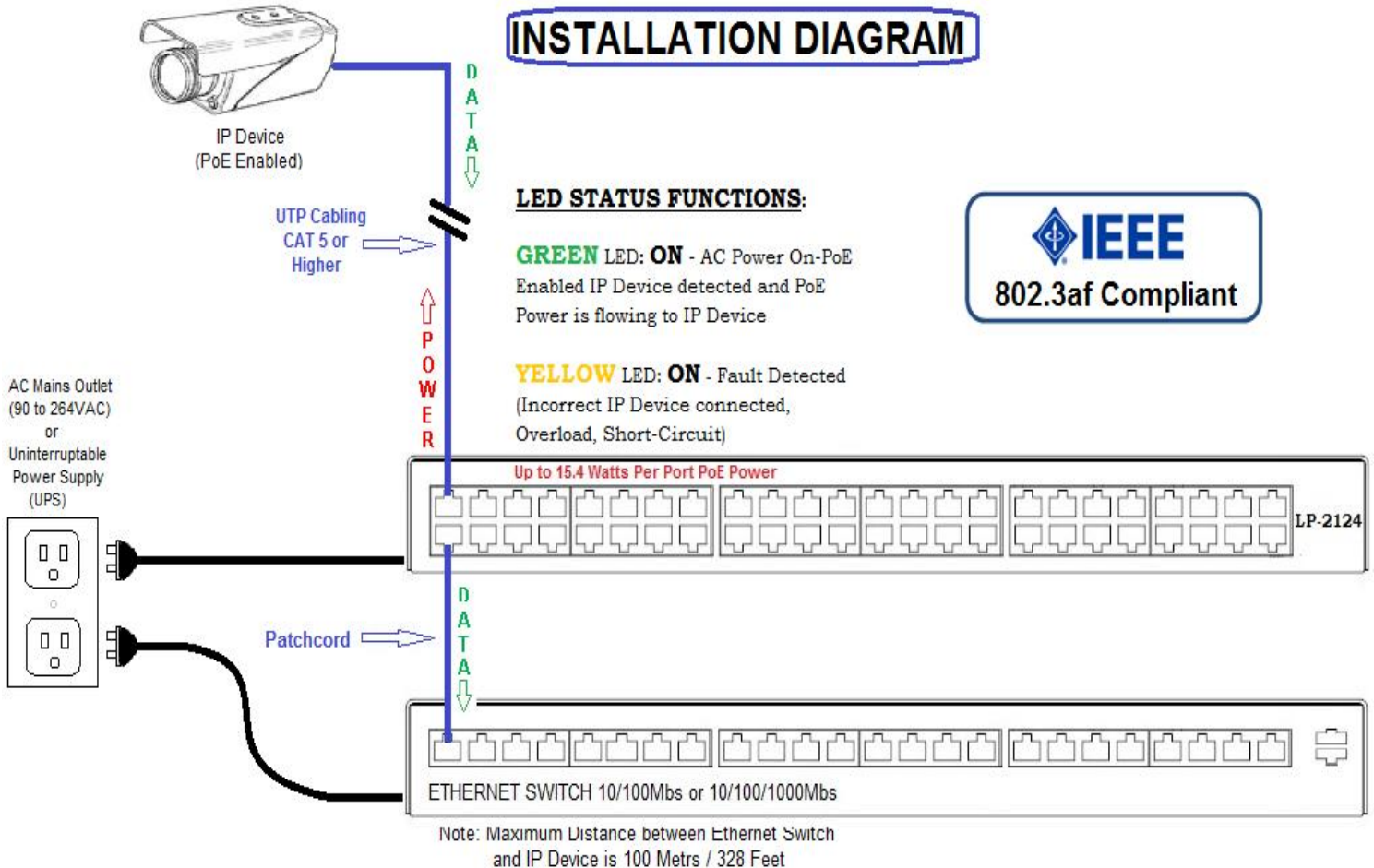


Technical Considerations - Before you mount the PoE Injector to a fixed location, consider all of the following: Determine optimal placement, check patch cord routing and AC outlet location. Collect and document Network information as required. Ensure the cable length from the Ethernet Network Switch to the Powered End device does not exceed 328 feet/100 meters total length. **Note:** The PoE Injector is not a repeater and does not amplify the Ethernet data signal. The Injector must be used in conjunction with an Ethernet Switch.

Safety Instructions: The means of connection to the mains power supply is the detachable power cord of the equipment. The equipment disconnect device is the appliance inlet. The AC socket outlet shall be installed near the equipment and shall be easily accessible.

Powering Up and Installing the Injector

- 1.) Attach a LAN data cable from the RJ45 Port of the Midspan Injector marked “**DATA & POWER**” (Top RJ45 Ports of Unit) to the structured wiring connection leading to the IP device to be powered. Up to eight (8) devices can be powered from the Midspan Injector (MAXIMUM 15.4 Watts per port). Follow this procedure for each IP device to be powered.
- 2.) Attach a LAN data cable (such as a patch cord) of minimum Cat5 cable grade from the Ethernet Switch port to the RJ45 connector on PoE Midspan Injector marked “**DATA**” (Bottom RJ45 Port of Unit). Up to eight (8) devices can be pass data (up to 1000Mbps) to the Ethernet Switch. Follow this procedure for each device passing data to the Ethernet Switch.
- 3.) Plug the 3 Pin Mains Power Cord supplied with Single Port Unit into a Mains AC power source. Units are typically connected to a power strip or other power outlet that may be cycled on and off. An uninterruptible power supply (UPS) may be used. This assures uninterrupted power to the End device should there be a loss of building power. Then plug the IEC320 3-pin connector into the back of the unit. Turn on power source. See below diagram for STATUS LED Indicators.



Two Year Limited Warranty

LAN-Power 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 2 years from the original purchase date. Any warranty hereunder is extended only to the original consumer or purchaser and is not assignable. More at www.lan-power.com

Notice to user

LAN-Power reserves the right to make changes in specifications and other information contained in this document and its web site without prior notice. The reader should in all cases consult LAN-Power to determine whether any such changes have been made. The hardware described in this document is subject to change without notice due to market conditions or user requirements.

Safety Approvals

The equipment meets the following safety approvals:



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