



High Power PoE Injector (P/N DA2401)

Owner's Manual

1308147 REV. A



FCC Certifications

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the instructions provided with the equipment, may cause interference to radio and TV communication. The equipment has been tested and found to comply with the limits for a Class A computing device in accordance with the specifications in Subpart B of Part 15 of FCC rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If you suspect this equipment is causing interference, turn your PoE Injector on and off while your radio or TV is showing interference, if the interference disappears when you turn your PoE Injector off and reappears when you turn it back on, there is interference being caused by the PoE Injector.

You can try to correct the interference by one or more of the following measures:

- ◆ Reorient the receiving radio or TV antenna where this may be done safely.
- ◆ To the extent possible, relocate the radio, TV or other receiver away from the PoE Injector.
- ◆ Plug the PoE Injector into a different power outlet so that the PoE Injector and the receiver are on different branch circuits.

If necessary, you should consult the place of purchase or an experienced radio/television technician for additional suggestions.

CE Mark Warning

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

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Specifications are subject to change without prior notification.

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1.0 Introduction

The Legrand DA2401 4 Port High Power PoE Injector (see **Figure 1**) provides up to 30 Watts of power for any remote IEEE 802.3at high powered device, such as a third party multi-channel Wireless Access Point, PTZ (Pan, Tilt & Zoom) camera, or Speed Dome IP camera over Cat 5e/6 wiring. The DA2401 has four “Data” input RJ45 jacks and four “Data and Power” output RJ45 jacks. The unit’s power is supplied by an included 52VDC 2.31A AC adapter.

The DA2401 is designed so that multiple units may be easily mounted to a separately available bracket (P/N AC1025) in an On-Q style enclosure (see **Figure 2**) and each unit may also be individually wall mounted, as it has keyhole slots on the rear of the case.

The DA2401 complies with IEEE 802.3 (Ethernet), IEEE 802.3u (Fast Ethernet), IEEE 802.3ab (Gigabit Ethernet) IEEE 802.3at (pre-standard Power over Ethernet), IEEE 802.3af (Power over Ethernet) and 10/100/1000Base-TX Ethernet standards.

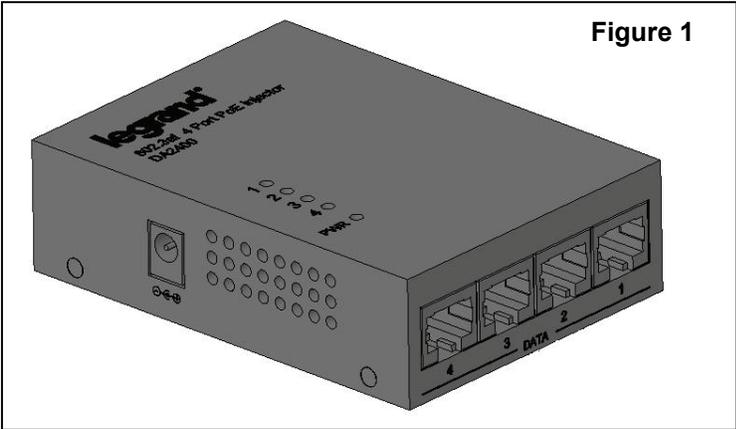


Figure 1

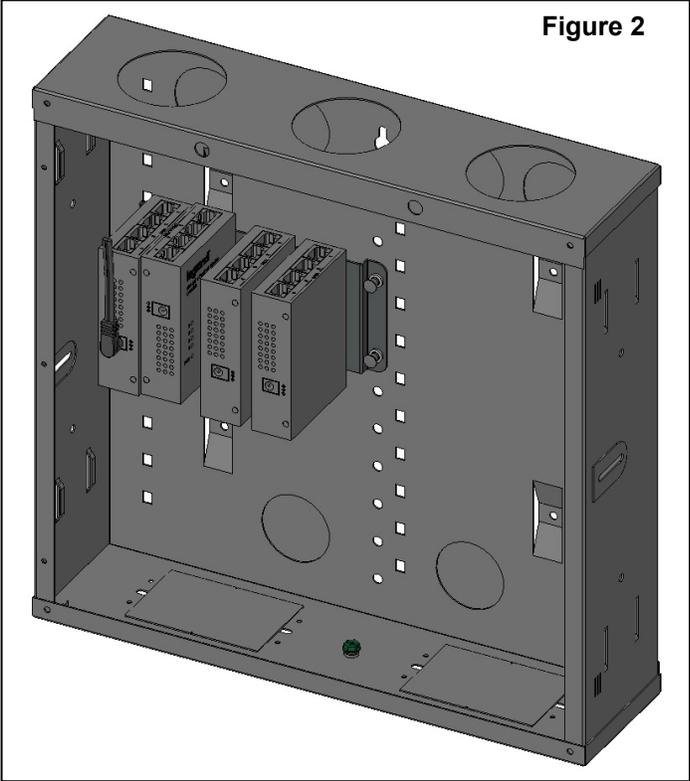


Figure 2

1.1 Detailed Physical Description

DA2401 Connection Area

- Figure 3 shows the DA2401 connection area including:
- Four Data Input RJ45 jacks
- 52-56VDC Power Input jack
- Four Data and Power Output RJ45 jacks
- Power LED – indicates DA2401 has input 52-56VDC power
- Four Port LEDs – indicates that port is providing 52-56VDC power

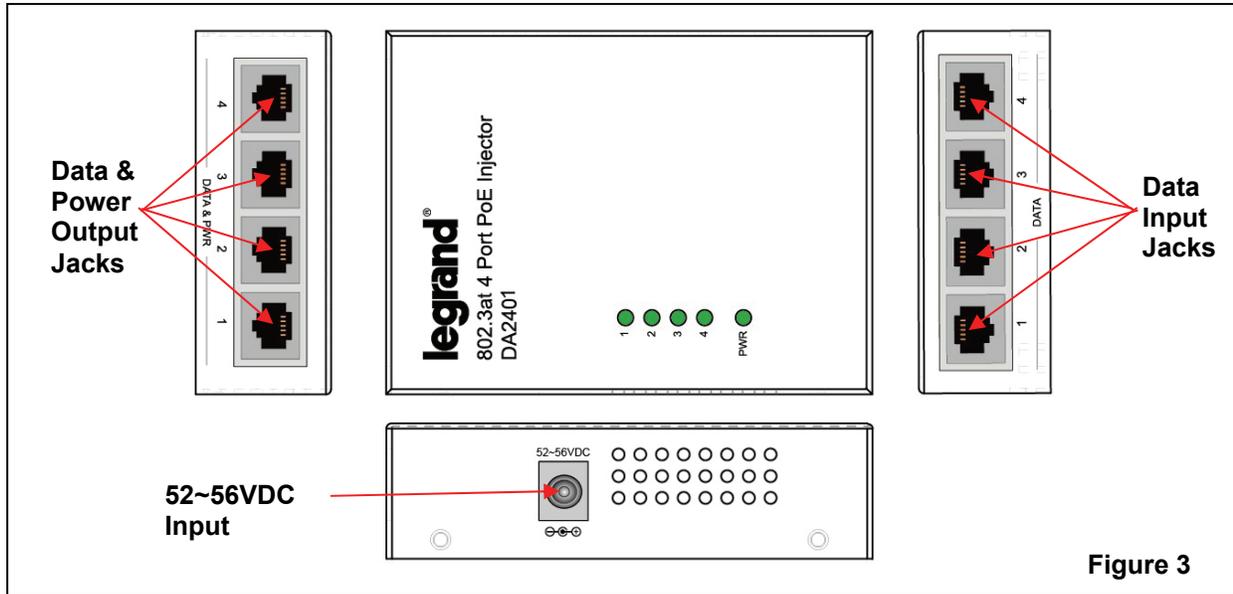


Figure 3

NOTE: 52-56VDC Power is provided on pins 4 and 5 of the connected Cat 5e/6 cable, and 0VDC is provided on pins 7 and 8 of the connected Cat 5e/6 cable.

1.2 Installation

The DA2401 High Power 4 Port PoE Injector is best installed during new construction in two steps; at “rough-in” after the Electricians are done, but prior to drywall being installed, and at “trim-out” after the drywall is installed and painted. These steps are detailed below:

A. “Rough-in” steps:

1. A single dedicated Cat 5e/6 should be run in the walls from the structured wiring enclosure location in the home where the 4 Port High Power PoE Injector will be installed to each location in the home where an IEEE 802.3at device will be installed (leave extra cable at both ends).

NOTE: Run Cat 5e/6 cable at least 12” from electrical cabling (preferably in a separate stud cavity) and cross electrical cables at a 90° angle. Use loose Velcro-style cable ties for bundling. If stapling is required, use specialty staples to avoid compressing the cable.

2. At the selected locations, refer to the installation instructions provided with the IEEE 802.3at device for recommended use of electrical gang boxes or low voltage brackets, with the extra Cat 5e/6 cable in the box, or attached in such a way that it may be fished out after the drywall is installed.

B. “Trim-out” steps:

1. The Cat 5e/6 cable that was secured at each of the locations should be pulled out and terminated with an RJ45 plug following standard TIA 568A recommendations and attached to the IEEE 802.3at device which is then installed.
2. In the structured wiring enclosure the Cat 5e/6 cables from the remote locations are terminated with RJ45 plugs for direct connection to the DA2401 “Data and Power” output jacks once the DA2401 is installed.
3. Each 4 Port High Power PoE Injector is first attached to the separately available AC1025 bracket using two of the eight screws provided with the bracket (see **Figure 2**) and then the bracket is installed in the structured wiring enclosure by slipping the tabs into the square holes, and using the push pins in round holes to secure the DA2401.

NOTE: Two of the air holes in each side of DA2401 are threaded to facilitate installation on the AC1025 bracket.

4. Cat 5e/6 patch cables (available separately) are then connected from an installed switch or router to the “Data” ports on the 4-Port High Power PoE Injector.
5. The 4 Port High Power PoE Injector is powered with an AC to DC adapter which also needs to be plugged in to an AC source.

NOTE: If the DA2401 is going to be wall mounted, use the keyhole slots on the rear of the unit by hanging it on the screws that are first installed in the wall or on a piece of plywood.