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PowerDsine PD-3001/AC

PowerDsine 3001 PoE Injector User Manual

Model: PD-3001/AC

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of the PowerDsine 3001 PoE Injector. This device is designed to supply power and data to network devices over a single Ethernet cable, conforming to the 802.3AF standard. Please read this manual thoroughly before using the product to ensure safe and efficient operation.



Figure 1: PowerDsine 3001 PoE Injector with included AC power cable. The injector is a compact, rectangular device, and the power cable is a standard three-prong AC cord.

SETUP

Follow these steps to set up your PowerDsine 3001 PoE Injector:

1. **Unpack the Device:** Carefully remove the PoE injector and its power cable from the packaging.
2. **Identify Ports:** Locate the "DATA IN" and "DATA & POWER OUT" Ethernet ports, as well as the AC power input.



Figure 2: Rear view of the PowerDsine 3001 PoE Injector showing the "DATA IN" port (for connection to a network switch/router), the "DATA & POWER OUT" port (for connection to a PoE-compatible device), and the AC power input.

3. **Connect Data Input:** Connect an Ethernet cable from your network switch, router, or non-PoE data source to the "DATA IN" port on the PoE injector.
4. **Connect Data and Power Output:** Connect another Ethernet cable from the "DATA & POWER OUT" port on the PoE injector to your PoE-compatible device (e.g., IP camera, VoIP phone, wireless access point).
5. **Connect Power:** Plug the provided AC power cable into the AC input on the PoE injector, then plug the other end into a standard electrical outlet.
6. **Verify Connection:** Once powered, the injector will begin supplying power and data. Check the status indicators on your connected device to confirm proper operation.

OPERATING INSTRUCTIONS

The PowerDsine 3001 PoE Injector operates automatically once connected and powered. It acts as a midspan device, injecting power into an existing Ethernet data line.

- **Power Delivery:** The injector provides 48V DC power over the Ethernet cable to the connected PoE-compatible device.
- **Data Transmission:** It transparently passes Ethernet data through, ensuring seamless network communication.
- **Plug and Play:** No software configuration is required for the injector itself. Ensure your connected device is PoE-compatible (IEEE 802.3af).

MAINTENANCE

The PowerDsine 3001 PoE Injector is designed for reliable, low-maintenance operation. Follow these guidelines to ensure its longevity:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Do not use liquid or aerosol cleaners.
- **Environment:** Operate the device in a well-ventilated area, away from direct sunlight, heat sources, and excessive moisture. Ensure proper airflow around the unit.
- **Cable Management:** Ensure all connected cables are securely fastened and not under undue strain. Avoid sharp bends in cables.
- **Storage:** If storing the device, keep it in a cool, dry place, preferably in its original packaging.

TROUBLESHOOTING

If you encounter issues with your PoE injector, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No power to connected device.	<ul style="list-style-type: none">• Injector not powered.• Incorrect cable connection.• Connected device is not PoE-compatible.• Faulty Ethernet cable.	<ul style="list-style-type: none">• Ensure the AC power cable is securely plugged into the injector and a live electrical outlet.• Verify that the Ethernet cable from the injector's "DATA & POWER OUT" port is connected to the PoE-compatible device.• Confirm the device supports IEEE 802.3af PoE.• Test with a known good Ethernet cable.
No data transmission.	<ul style="list-style-type: none">• Incorrect data input connection.• Faulty Ethernet cable.• Network issue upstream.	<ul style="list-style-type: none">• Ensure the Ethernet cable from your network source is connected to the injector's "DATA IN" port.• Test with a known good Ethernet cable.• Verify your network switch/router is functioning correctly.
Device frequently disconnects.	<ul style="list-style-type: none">• Loose cable connections.• Overheating.• Power fluctuations.	<ul style="list-style-type: none">• Secure all Ethernet and power cable connections.• Ensure adequate ventilation around the injector.• Connect to a stable power source, possibly with a surge protector.

SPECIFICATIONS

The following are the technical specifications for the PowerDsine 3001 PoE Injector:

PowerDsine™ 3001

This device complies with Part 15 of FCC Rules.
 Operation is subject to the following two conditions:
 (1) This device may not cause harmful interference,
 (2) This device must accept any interference received,
 including interference that may cause undesired operation.
 This Class B digital apparatus complies with Canadian ICES-003.
Covered under US Patent 6,473,608

Part #: PD-3001/AC



Special: PD-6053-300











LISTED
 ITE POWER SUPPLY
 6H75
 E186116
 L.P.S.



QS-6053-01N 001

Made in China
 INPUT :100-250Vac, 50/60Hz,0.5A DC OUTPUT: 48V, 0.35A
 E018205A

(S)S/N: B05246050010153501



Figure 3: Product label detailing model number, part number, input/output electrical specifications, and compliance certifications.

Feature	Detail
Model	PD-3001/AC
Part Number	PD-3001/AC (also PD-6053-300 Special)
Standard	IEEE 802.3af
Input Voltage	100-250Vac, 50/60Hz, 0.5A

Feature	Detail
DC Output	48V, 0.35A
Manufacturer	PowerDsine (Microsemi)
Compliance	FCC Part 15, Canadian ICES-003, CE, UL Listed (ITE Power Supply)
Serial Number Example	SB05246050010153501 (Example from product label)

WARRANTY INFORMATION

Specific warranty terms for the PowerDsine 3001 PoE Injector may vary depending on the region and seller. Please refer to the warranty card included with your product or contact the original point of purchase for detailed warranty information and support.

CUSTOMER SUPPORT

For technical assistance, troubleshooting beyond this manual, or inquiries regarding your PowerDsine 3001 PoE Injector, please contact the manufacturer, PowerDsine (now Microsemi), or your product vendor. Have your model number (PD-3001/AC) and serial number ready when contacting support.