

GODIYMODULES Mod-48VDian-001

GODIYMODULES 15-48V Phantom Power Electret Condenser
Microphone Amplifier Board

Model: Mod-48VDian-001

INTRODUCTION

This instruction manual provides essential information for the proper setup and operation of your GODIYMODULES 15-48V Phantom Power Electret Condenser Microphone Amplifier Board. This board is designed to amplify electret microphones, enabling their use with 15-48V phantom power sources for various audio applications.

FEATURES

- Designed for 15-48V phantom power operation.
- Compatible with universal and single-point electret microphones.
- Suitable for applications such as karaoke, recording, and conference speech.
- Optimized for low noise performance when paired with a low-noise electret microphone.

SPECIFICATIONS

Parameter	Value
Microphone Type	Electret Microphone
Power Supply	15-48V Phantom Power
Output Impedance	250 Ohms
Sound Pressure Level (SPL)	125 dB
Signal-to-Noise Ratio (SNR)	60 dB
Working Current	Approximately 3.2 mA
Board Size	45mm x 15.82mm (excluding cannon head part)
Item Weight	1.06 ounces
Package Dimensions	3.94 x 1.97 x 0.79 inches

PACKAGE CONTENTS

- 1 x Electret Condenser Microphone Amplifier Board

SETUP AND CONNECTION

This amplifier board requires an electret microphone and a phantom power source (15-48V) for operation. The board converts the phantom power into the necessary bias voltage for the electret microphone and amplifies its signal.

1. **Connect the Electret Microphone:** Solder or connect your electret microphone to the designated 'MIC +' and 'MIC -' pads on the amplifier board. Ensure correct polarity.
2. **Connect to Phantom Power Source:** The output pins of the amplifier board are designed to connect to an XLR input that provides 15-48V phantom power. This connection will supply power to the board and the microphone, and carry the amplified audio signal.
3. **Connect to Audio Equipment:** The XLR output from your phantom power source (or directly from the board if integrated) should then be connected to your mixer, audio interface, or other recording/sound equipment.

Important: The overall noise performance of the system is significantly influenced by the quality of the electret microphone used. For optimal results, it is recommended to use a low-noise electret microphone.

OPERATION

Once properly connected, the amplifier board operates automatically when phantom power is supplied. It boosts the low-level signal from the electret microphone to a line-level signal suitable for professional audio equipment.

- Ensure all connections are secure before applying power.
- Activate the phantom power on your mixer or audio interface.
- Monitor audio levels on your connected equipment to prevent clipping or distortion. Adjust gain settings on your mixer/interface as needed.

MAINTENANCE

The amplifier board requires minimal maintenance. Keep the board clean and free from dust and moisture. Avoid exposing it to extreme temperatures or direct sunlight. Do not attempt to disassemble the board beyond necessary connections, as this may void any potential warranty.

TROUBLESHOOTING

- **No Sound Output:**
 - Verify that phantom power (15-48V) is active on your connected audio equipment.
 - Check all cable connections for proper seating and continuity.
 - Ensure the electret microphone is correctly wired to the board with correct polarity.
 - Test with a different electret microphone or cable if available.
- **Excessive Noise/Hum:**
 - Ensure proper grounding of all audio equipment.
 - Use shielded cables for all connections.
 - Verify that the electret microphone itself is low-noise.
 - Check for nearby electronic devices that might cause interference.
- **Low Output Level:**
 - Confirm that the phantom power voltage is within the 15-48V range.
 - Adjust the gain settings on your mixer or audio interface.

VISUAL AIDS



Figure 1: Top view of the amplifier board, highlighting the MIC+ and MIC- connection points and other electronic components.



Figure 2: Angled perspective of the amplifier board, illustrating the three gold-plated output pins for connection to an XLR input.



Figure 3: Detailed top-down view of the amplifier board, showing the arrangement of surface-mount components and the input/output sections.



Figure 4: Side-angled view of the amplifier board, highlighting its compact form factor and the robust construction of the output pins.

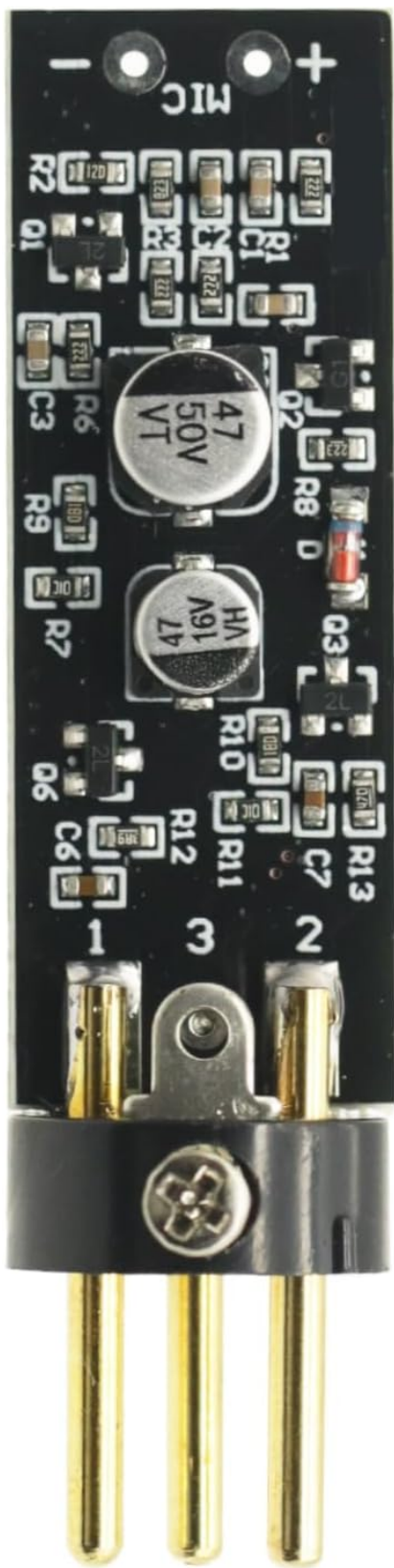


Figure 5: Vertical view of the amplifier board, providing a clear perspective of its length and the placement of the microphone input and XLR output pins.



Figure 6: Bottom view of the amplifier board, revealing the solder points and the overall clean design of the printed circuit

board.

Product Video

Video 1: This video provides a visual overview of the Electret Microphone Amplifier Boards, showing their packaging and physical appearance. It demonstrates the compact size and how the electret microphone capsule connects to the board.

WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the seller's policies on the platform where the product was purchased. Keep your purchase receipt as proof of purchase.