

Electroline EDA2100

Electroline EDA2100 Bi-Directional Signal Booster User Manual

Model: EDA2100 | Brand: Electroline

1. INTRODUCTION

The Electroline EDA2100 is a bi-directional signal booster designed to enhance both analog and digital off-air signals, as well as CATV signals. It provides a 15 dB boost over a single port, improving signal quality for cable modems, televisions, and HDTVs. This manual provides essential information for the safe and effective installation, operation, and maintenance of your EDA2100 signal booster.

2. SAFETY INFORMATION

- Read all instructions thoroughly before installing or operating the device.
- Do not expose the unit to water, rain, or excessive moisture. This device is intended for indoor use, despite its waterproof housing design for enhanced durability.
- Ensure proper grounding for all coaxial connections to prevent electrical hazards.
- Disconnect power from the unit and any connected devices before making or changing any connections.
- Do not attempt to open or service the unit. There are no user-serviceable parts inside. Refer all servicing to qualified service personnel.
- The EDA2100 features extra surge protection (XSP) rated at the IEEE 6 kV 3 kA combination wave standard for enhanced lightning protection. However, direct lightning strikes can still cause damage.

3. PACKAGE CONTENTS

Please verify that all items are present in your package:

- Electroline EDA2100 Bi-Directional Signal Booster
- Power Adapter
- User Manual (this document)

4. PRODUCT FEATURES

- **1-Port Signal Booster:** Provides a +15 dB gain per port, boosting signal strength significantly.
- **Advanced Surge Protection:** Features 6 KV surge protection on all outputs, meeting IEEE 6 kV 3 kA standards.
- **Improved Reception:** Designed to enhance HDTV reception, reduce signal noise, and prevent image pixelation with digital cable.
- **Compact Design:** Ultra-small form factor for easy installation in confined spaces.
- **Low Noise Figure:** Industry benchmark low noise at 3 dB.
- **Durable Construction:** Waterproof housing and SCTE compliant F-terminals ensure robust design.
- **Power Verification:** Built-in confirmation LED indicates power status.
- **Wide Frequency Range:** Forward passband of 54-1000 MHz and return passband of 5-65 MHz.

5. SETUP AND INSTALLATION

Follow these steps to properly install your Electroline EDA2100 signal booster:

1. **Identify the Incoming Cable Line:** Locate the main coaxial cable line entering your home or the specific line you wish to boost.
2. **Disconnect Power:** Ensure all connected devices (TVs, cable modems, etc.) are powered off and unplugged.
3. **Connect the Amplifier:**
 - Connect the incoming coaxial cable from your service provider or antenna to the **INPUT** port of the EDA2100.
 - Connect a coaxial cable from the **OUTPUT** port of the EDA2100 to your television, cable modem, or distribution splitter.
4. **Power the Amplifier:** Connect the provided power adapter to the power input on the EDA2100 and then plug the adapter into a standard electrical outlet. The built-in LED should illuminate, indicating the unit is receiving power.
5. **Consider Cable Modem Connection:** If you have a cable modem, it is often recommended to install a high-quality splitter *before* the EDA2100, with one output going to the modem and the other to the EDA2100. This ensures the modem receives a clean, unamplified signal, which can be critical for internet stability. Alternatively, if your modem experiences signal issues, connecting it to the amplified output may help, but monitor performance.
6. **Secure Connections:** Ensure all coaxial connections are finger-tight to prevent signal loss.
7. **Restore Power:** Plug in and power on your connected devices.



Figure 5.1: Electroline EDA2100 Signal Booster. This image shows the compact design of the amplifier with its input, output, and power ports, ready for coaxial cable connections.

6. OPERATING INSTRUCTIONS

The Electroline EDA2100 is designed for continuous, automatic operation once properly installed and powered. There are no user controls or adjustments required.

- **Power Indicator:** The built-in LED on the unit will illuminate when the device is receiving power and operating correctly.
- **Automatic Signal Boosting:** The amplifier will automatically boost the incoming signal by 15 dB across its specified frequency ranges.

7. MAINTENANCE

The Electroline EDA2100 requires minimal maintenance.

- **Cleaning:** Periodically wipe the unit with a soft, dry cloth to remove dust. Do not use liquid cleaners or solvents.
- **Connections:** Occasionally check all coaxial connections to ensure they remain secure and finger-tight. Loose connections can degrade signal quality.
- **Environmental Conditions:** Ensure the unit is kept in a dry, well-ventilated area, away from extreme temperatures.

8. TROUBLESHOOTING

If you experience issues with your Electroline EDA2100, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
No power indicator LED	Power adapter unplugged or faulty; electrical outlet not working.	Check power adapter connection to the unit and wall outlet. Test the outlet with another device. Replace adapter if faulty.
Poor signal quality (e.g., pixelation, snowy picture)	Loose coaxial connections; weak incoming signal; faulty cables; amplifier malfunction.	Ensure all coaxial cables are securely connected. Check the quality of your incoming signal before the amplifier. Replace old or damaged coaxial cables. If issues persist, the amplifier may be faulty.
No signal at all	Incorrect connections; complete loss of incoming signal; amplifier malfunction.	Verify all connections are correct (Input to source, Output to device). Check if there is any signal present without the amplifier. Contact your service provider if there is no incoming signal.
Internet modem issues after installation	Over-amplification or signal interference with modem.	If possible, connect the cable modem to a splitter <i>before</i> the amplifier to provide an unamplified signal. Some modems perform better with a direct, unamplified signal.

If troubleshooting steps do not resolve the issue, please contact Electroline customer support.

9. SPECIFICATIONS

Feature	Specification
Model	EDA2100
Number of Ports	1
Forward Gain	15 dB
Return Path Insertion Loss	0.5 dB
Forward Passband	54-1000 MHz
Return Passband	5-65 MHz
Frequency Response Flatness	±1 dB
Noise Figure	3 dB
RFI Isolation	100 dB minimum
Maximum Voltage (Surge Protection)	6 Kilovolts

Feature	Specification
Cable Type	Coaxial
Compatible Devices	Television
Indoor/Outdoor Usage	Indoor (with waterproof housing for durability)
Item Weight	16 ounces

10. WARRANTY AND SUPPORT

The Electroline EDA2100 may include a manufacturer's warranty. Please refer to the retail packaging or contact Electroline directly for specific warranty terms and conditions. Warranty periods can vary based on region and retailer. For technical assistance, product inquiries, or warranty claims, please contact Electroline customer support through their official website or the contact information provided with your product packaging.

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