



1500528  
User's Guide

# Inline Antenna Signal Amplifier



*We hope you enjoy your In-Line Antenna Signal Amplifier from RadioShack. Please read this user's guide before using your new signal amplifier.*

# Package Contents

- Signal Amplifier
- Power Injector
- AC Adapter
- Screws (2)
- User's Guide

## Caution:

*Because the amplifier uses a coaxial cable to carry the current from the DC power supply, proper connections are crucial. Carefully follow all instructions in this User's Guide to avoid damage to your equipment.*

## IMPORTANT SAFETY INSTRUCTIONS

1. Read and retain all safety and operating instructions.
2. The amplifier should be situated so that its location does not interfere with its proper ventilation.
3. This amplifier should be connected to a power supply of the type described in the operating instructions or marked on the amplifier.
4. Do not attempt to destroy the grounding or polarization components of this amplifier.
5. Wipe the amplifier with a damp cloth occasionally to keep it looking new. Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the amplifier.
6. Do not expose to liquid, vapor, or rain.
7. An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
8. Place the amplifier away from heat sources such as radiators, heat registers, stoves, or other appliances.

9. Temperature extremes can shorten the life of electronic devices and distort or melt plastic parts.
10. If an outside antenna is connected to the receiver, be sure the antenna system is grounded to provide some protection against voltage surges, built-up static charges, and lightning strikes. Section 810 of the National Electric Code (NEC), ANSI/NFPA NO. 70-70-1990, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

## Specifications

### Amplifier

Frequency .....	54 – 700 MHz
Gain .....	Min. 15 dB
Noise Figure.....	Max. 4 dB

### Power Injector

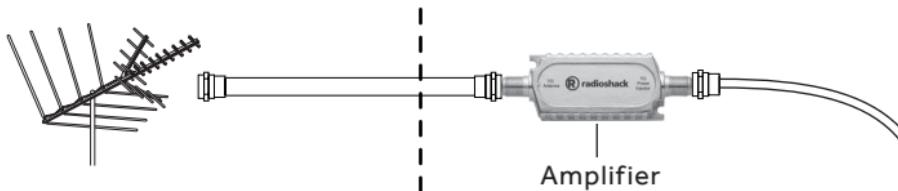
Input .....	9V DC
Insertion Loss.....	Max. 3 dB

### AC/DC Adapter

Input .....	120V AC, 60Hz
Output .....	9V DC, 100mA, Tip positive

Specifications are subject to change and improvement without notice. Actual product may vary from the images found in this document.

# Connect to an Antenna



1. Install your amplifier close to your antenna. You can mount the amplifier on a wall or another surface using the two supplied screws.
  - Do not place the amplifier outdoors. Install it inside your home where the coaxial cable enters from the antenna.
  - To keep exposed cable to a minimum, you can place the amplifier in your attic.
  - Install waterproof sealant around outdoor connections.
  - To prevent interference, do not place the amplifier within six inches of any other electronic device.
2. Connect the **TO Antenna** side of the amplifier to the antenna transformer or as close to the antenna as possible if it does not have a transformer.
3. Route a 75-ohm (RG-6 or RG-6QS) coaxial cable (not supplied) from the amplifier to the power injector.
  - Use only as much cable as is necessary to make each connection. Extra cable reduces signal strength.
  - Do not route cables where they might be cut, crimped, or crushed.

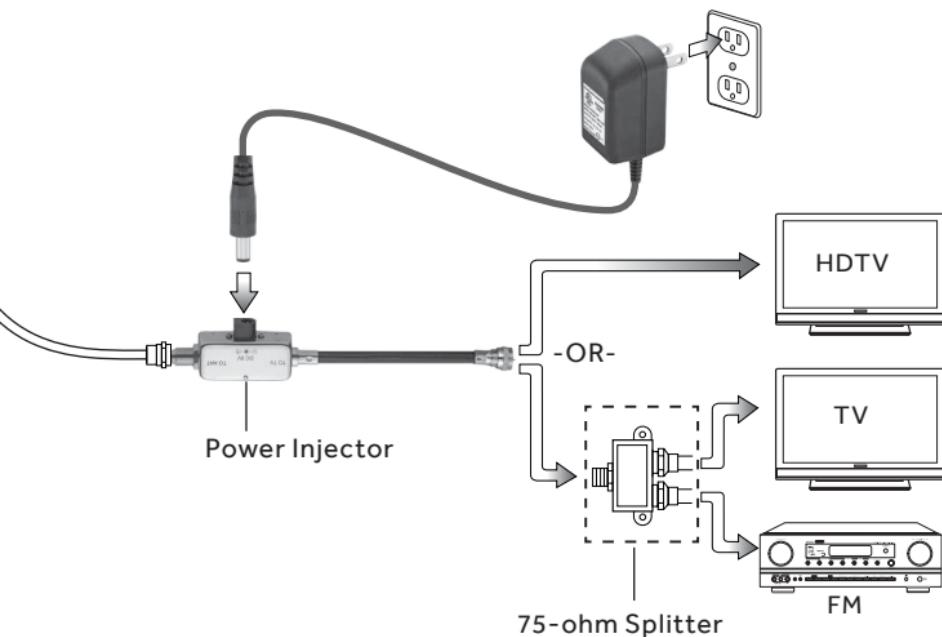
# Connect to the Power Injector

1. Place the power injector close to your television and an AC outlet.
2. Connect the coaxial cable from the amplifier to the **TO ANT** side of the power injector.
3. Connect the **TO TV** side of the power injector to one receiver **OR** to a 75-ohm splitter (not included) and two receivers.

**!** **Caution:** Double-check all connections. Your TV or receiver may be damaged if these connections are reversed.

4. Connect the supplied AC adapter to the power injector's **DC 9V** jack, then plug it into a standard household outlet.

You can use an RF cable (not included) up to 150 feet (46 m) to connect a second amplifier in-line with the first amplifier to enhance the RF signal level.





### Note:

- Always connect the AC adapter to the power injector before you connect it to AC power. When you finish, disconnect the adapter from AC power before you disconnect it from the power injector.
- Make sure the power injector is between the amplifier and the splitter (before the signal is split).
- The in-line signal amplifier is designed for use with F-type connectors. For some antenna systems (such as scanners), you must use connection adapters or make special cables.

## Troubleshooting

If your receiver does not improve signal strength after you install the in-line signal amplifier:

- Check all connections.
- Unplug the power injector. If the signal worsens, the amplifier was functioning.
- Connect to a different receiver. If possible, also try connecting to a different antenna.
- Minimize the number of splitters between the antenna and your receiver, or use amplified splitters.
- Minimize the length of your cables.

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