

## Model SR-2A: Amplified 2-Way Satellite Radio Splitter Kit

This amplified splitter is optimized for use with all satellite radio systems. It includes the adapters and accessories to permit operation of two satellite radios from a single antenna. In order to maintain the proper RF link budget for the radio, the splitter loss at 2.35 GHz has been compensated by an internal amplifier. This amplifier is powered by the DC voltage that is supplied by any of the radios connected to its output. The splitter will pass the DC voltage supplied by a radio at any output port to the splitter input port. This will provide power to any antenna connected to this port for the antenna's internal low-noise amplifier (LNA). Standard RG-6 cable with male F-connectors (not supplied) can be used to extend the output cable lengths. The splitter has 10 dB of excess gain to permit output extensions of up to 90 feet. If cable extensions greater than 90 feet are desired, we recommend using Model SBA-1 line extension amplifier(s) with the splitter. One amplifier (for example) placed at the input of the splitter will permit total cable lengths of up to 200 feet from each individual output port to the radios.

This splitter has been designed with an output impedance that replicates that of a satellite radio antenna so that the radio will operate in its normal mode without the need for external impedance terminating devices.

See diagram below for a typical installation example. We recommend use of a Pixel PRO-500 or PRO-600 Satellite Radio antenna with this splitter. If it is used with a home antenna, a model SMBF adapter (SMB-jack to F-male) will be required.

### Supplied Components:

QTY	Description
1	Amplified Splitter
2	F-female to SMB-plug cable (3 feet)
2	F-71 F-male to F-male coupler
2	mounting screws

### Specifications:

Splitter Gain at 2.335 GHz (4.5 VDC):	10 dB min
Max noise figure:	3 dB
Max input signal:	-10 dBm
Will operate outdoors or indoors	
Temperature range:	- 40° C to + 60° C
Current consumption:	55 milliamps
DC power passing, all ports diode protected	
DC voltage drop (output to input):	0.5 VDC typical
Dimensions:	3.0" W x 0.86" H x 1.83" D

