

## Model SRSC4WSK: Amplified 4-Way Satellite Radio Splitter Kit

This amplified splitter is optimized for use with all satellite radio systems. It includes the adapters, cables and accessories to permit operation of multiple (up to four) 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. For XM this nominal voltage is 4.5 VDC. For Sirius the nominal voltage is 6.5 VDC. The splitter is compatible with either satellite radio system. 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 8 dB of excess gain to permit output extensions of up to 70 feet. If cable extensions greater than 70 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. Unused output ports **do not** have to be terminated for proper operation.

This splitter can also be cascaded with Model SRSC-2 and Model SRSC-4 couplers to form 8-Way and 16-Way splitter networks without the need for external power inserters.

**Note: For operation in close proximity to high power satellite radio terrestrial repeaters. Please use the supplied 20 dB attenuator on the input of the splitter to avoid amplifier overload. Otherwise this attenuator is not required.**

See diagrams on the reverse for typical installation examples.

### Supplied Components:

QTY	Description
1	Amplified Splitter
4	F-female to SMB-plug cable (3 feet)
4	F-71 F-male to F-male coupler
1	20 dB power passing attenuator
1	SMB-jack to F-male adapter
2	mounting screws

### Specifications:

Splitter Gain at 2.335 GHz (4.5 VDC):	8 dB min
Max noise figure:	3 dB
Max input signal:	-10 dBm (with supplied 20 db attenuator @ 4.5 VDC)
Will operate outdoors or indoors	
Temperature range: - 40° C to + 60° C	
Current consumption: 40 -100 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	

