



Model SR-4: 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 a minimum gain of 8 dB to permit output extensions of up to 80 feet. If cable extensions greater than 80 feet are desired, we recommend using Pixel 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 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 Pixel Model SRSC-2 and Pixel 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

Specifications

ITEM	Typical	Min	Max	Comments
Splitter Gain	10 dB	8 dB		
Frequency range		2320 MHz	2345 MHz	
Noise Figure	2.5 dB		3.0 dB	
Max output (3 dB Compression)	-3 dBm	-10 dBm		
Max Input	+ 7 dBm			With supplied 20dB input attenuator
Temperature Range		- 40° C	+60° C	
DC Power passing				All ports power passing one direction, diode protected from output to input
Power Consumption		40 ma	100 ma	
Demensions	3.0" W x 1.85" L x .86" H			

