



GPS Antenna Splitter

Model 8224

- Eliminates the expense of a second antenna or cable run
- Enables the ability to share an existing antenna with multiple GPS receiver devices
- One DC-pass-through output to power antenna
- Optional all DC-blocked outputs with external power supply
- 5-Year Limited Warranty



Model 8224-2 shown

The GPS Antenna Splitter, Model 8224, makes it possible to use a single GPS antenna and cable setup for multiple synchronization devices. For example, a 1:2 (1 input, 2 outputs) antenna splitter eliminates the need for, and associated expense of, a second antenna and connected cable for installations in which two systems are running. The antenna splitter can be used with any RF coax-based antenna, such as Spectracom models 8225, 8228, and ANT-35.

These splitters operate on the GPS L1/L2 carrier frequency. Normally, one output is a DC pass-through to power the antenna from the Spectracom equipment to which it is connected. The other output leg is DC-blocked and has a 200 ohm DC load to ground, simulating a GPS pre-amp current draw.

Splitters that are DC-blocked on all outputs require an external power supply to provide the 5VDC required. The all DC-blocked version of the 1:2 splitter has a military-style connector for a 9-32VDC source (which must be supplied by the customer). The 1:8 splitter is provided with a 110VAC power supply. When external power is available, the splitter also acts as an antenna signal amplifier.

Specifications

Electrical

Model	8224-2	8224-4	8224-8-110	8224-2-DC
Input:Outputs	1:2	1:4	1:8	1:2
Frequency	1.1 to 1.7 GHz			
Antenna Power	Pass-through from device on J1		110VDC, transformer included	customer-supplied 5VDC
Amplifier	No		Yes	
Insertion Gain (Loss)	(-6 db)	(-9 db)	+3 db	+20 db
Isolation	Regular, 16 db min			High, 35 db min

Mechanical

Base Size:

3.25" L x 2.5" W x 1.3" H
 82.55 mm L x 63.5 mm W x 33.02 mm H
 (Length of 1:8 splitter is 5.25" [133.35 mm])

RF Connectors: Type N Female (50 ohm)

Temperature: -40° to +75°C (-40° to +167°F)

Warranty

5-Year Limited

