



## PSC RF Multi SR Six Pack



The PSC RF Multi SR Six Pack contains two, separate, active 1 x 4 RF splitters for use with up to three slot style receivers. This compact, rugged device was developed using the latest super low noise RF amplifiers and will operate over an extended frequency range of 470Mhz to 870Mhz.

Its two inputs are traditional BNC connectors for ease of use in interfacing with your external antennas. Each of the SMA outputs offers a typical isolation factor of 24 to 28dB between radio receivers. The PSC RF Multi SR Six Pack also has the ability to power external powered antennas or remote line amplifiers. There are two front panel mounted switches on the unit. One is marked "POWER" and this controls the overall power to the unit. The second switch is marked "ANT PWR" and this switch controls the power being sent to an external powered antenna or remote line amplifier. Both switches light up when in use. The entire unit is powered from any source of external DC power of 10 to 15Vdc @ approximately 170 to

210mA. On the left side of the unit there are six TA3M mini XLR output connectors. These provide audio output from the three slot receivers. In addition, on the rear of the unit is a DB-37 male connector. This connector offers the same six channels of audio output as the mini XLR's and also has external powering connections. It can be used with custom built audio and power break out snake cables. The DB-37 will also directly interface with our upcoming Alexis Audio mixer providing all audio and power connections to the mixer without the use of any cables. In addition, there are two chassis mounted SMA connectors on the left side panel of the unit. These offer two additional RF outputs that can be used to feed another PSC RF Multi SR Six Pack or PSC RF Multi SMA or other similar device.



Rear Panel showing DB-37M connector

**DB-37 Pinouts:**

**External Power Ground = Pins 20,21,22**

**External Power +10 to +15Vdc = Pins 1,2,3**

**RX1 CH 1 Ground = Pin 35**

**RX1 CH1 Audio High = Pin 16**

**RX1 CH1 Audio Low = Pin 17**

**RX1 CH2 Ground = Pin 37**

**RX1 CH2 Audio High = Pin 18**

**RX1 CH2 Audio Low = Pin 19**

**RX 2 CH1 Ground = Pin 30**

**RX2 CH1 Audio High = Pin 11**

**RX2 CH1 Audio Low = Pin 12**

**RX2 CH2 Ground = Pin 32**

**RX2 CH2 Audio High = Pin 13**

**RX2 CH2 Audio Low = Pin 14**

**RX3 CH1 Ground = Pin 25**

**RX3 CH1 Audio High = Pin 6**

**RX3 CH1 Audio Low = Pin 7**

**RX3 CH2 Ground = Pin 27**

**RX3 CH2 Audio High = Pin 8**

**RX3 CH2 Audio Low = Pin 9**



**Left Side Panel showing:**

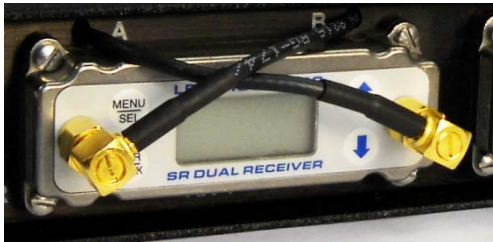
**4 Pin Hirose Power Connection**

**6 x TA3M Audio Output Connections**

**2 x SMA RF Outputs (loop throughs)**

## USE:

1. Install your slot style receivers into the openings on the front of the PSC RF Multi SR Six Pack noting the correct direction of the DB-25 connectors. Gently slide the receivers into the slots until you feel the db-25 connectors line up. Once you feel the connectors line up, firmly press the slot receiver fully into place.
2. Connect your audio output cables from the six TA3M audio outputs to your mixer or recorder's inputs.
3. Connect a source of external 12Vdc power to the Hirose 4 pin connector on the left side panel of the unit.
4. Connect your two receive antennas to the RF input BNC connectors on the front panel of the unit. When using powered antennas or remote line amplifiers, turn on the "Antenna" power switch. For all other uses, leave this switch turned off.
5. Connect the PSC RF Multi SR Six Pack cable mounted SMA connectors to your slot receivers using a "criss cross" or X pattern. See photo below:



6. Power up the unit. Note that the power switch lights up blue when the unit is turned on.

### \*NOTES\*

1. When used with ENG "bag" mixing setups, we recommend that you remotely mount your receive antennas up away from your equipment on your bag's shoulder straps. This will help eliminate picking up of RF spray from digital recorders.
2. Different brands of wireless receivers require their own specific brand made adapters to work with our Six Pack. These are the same adapters required to install the slot receivers in a Ikigami or Panasonic camera. For example:

Lectrosonics SRB requires their "SRUNI" kit.

Wisyscom MCR42 requires their "SCK42-IK" kit.

Audio Limited CX2-P (DB-25 pin model....Ikigami & Panasonic) need no adapters.

Please also note that the PSC RF Multi SR Six Pack will interface directly (without cables) to our upcoming Alexis Audio Mixer:



#### **SPECIFICATIONS:**

<b>Size:</b>	<b>12 " x 5.5" x 1.6" (30.5cm x 14cm x 4cm)</b>
<b>Weight:</b>	<b>2Lbs (0.9Kgm)</b>
<b>Power:</b>	<b>External DC, 10-15Vdc @ 170 to 210mA</b>
<b>Input Impedance:</b>	<b>50 Ohms</b>
<b>Input Connector:</b>	<b>BNC</b>
<b>Output Impedance:</b>	<b>50 Ohms</b>
<b>Output Connector:</b>	<b>SMA</b>
<b>Maximum Input Signal:</b>	<b>+13dB</b>
<b>Noise Figure:</b>	<b>0.8dB</b>
<b>Chassis Material:</b>	<b>Aircraft Aluminum</b>
<b>Finish:</b>	<b>Black Epoxy Wrinkle Texture Powder Coat</b>
<b>Warranty:</b>	<b>1 Year, limited</b>

## DECLARATION OF CONFORMITY

**EMC:** This product is in compliance with the Electromagnetic Compatibility Directive, 89/336/EEC as defined in EN 50081-1, EN55022 and EN 50082-1. IEC801-2, IEC801-3 and IEC801-4.

**LVD:** This product is in compliance with the requirements of the Low Voltage Directive, 73/23/EEC. 93/68/EEC as defined in EN60065, 1993 and/or EN60950/A1/A2/A3: 1995

**TRADE NAME:** PSC

**MODEL:** RF Multi SR Six Pack

**RESPONSIBLE PARTY:** Professional Sound Corp.  
28085 Smyth Drive  
Valencia, CA 91355 USA

**CONTACT PERSON:** Ronald Meyer  
(661) 295-9395

**TYPE OF PRODUCT:** Antenna Distribution

**MANUFACTURER:** Professional Sound Corp.  
28085 Smyth Drive  
Valencia, CA 91355 USA

We hereby declare that the equipment bearing the trade name and model number listed above has been tested in accordance with the requirements contained in the above listed directives. All necessary steps have been taken and are in force to assure that production units manufactured will conform to Directive guidelines.

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