Tech Talk Application Note #2©

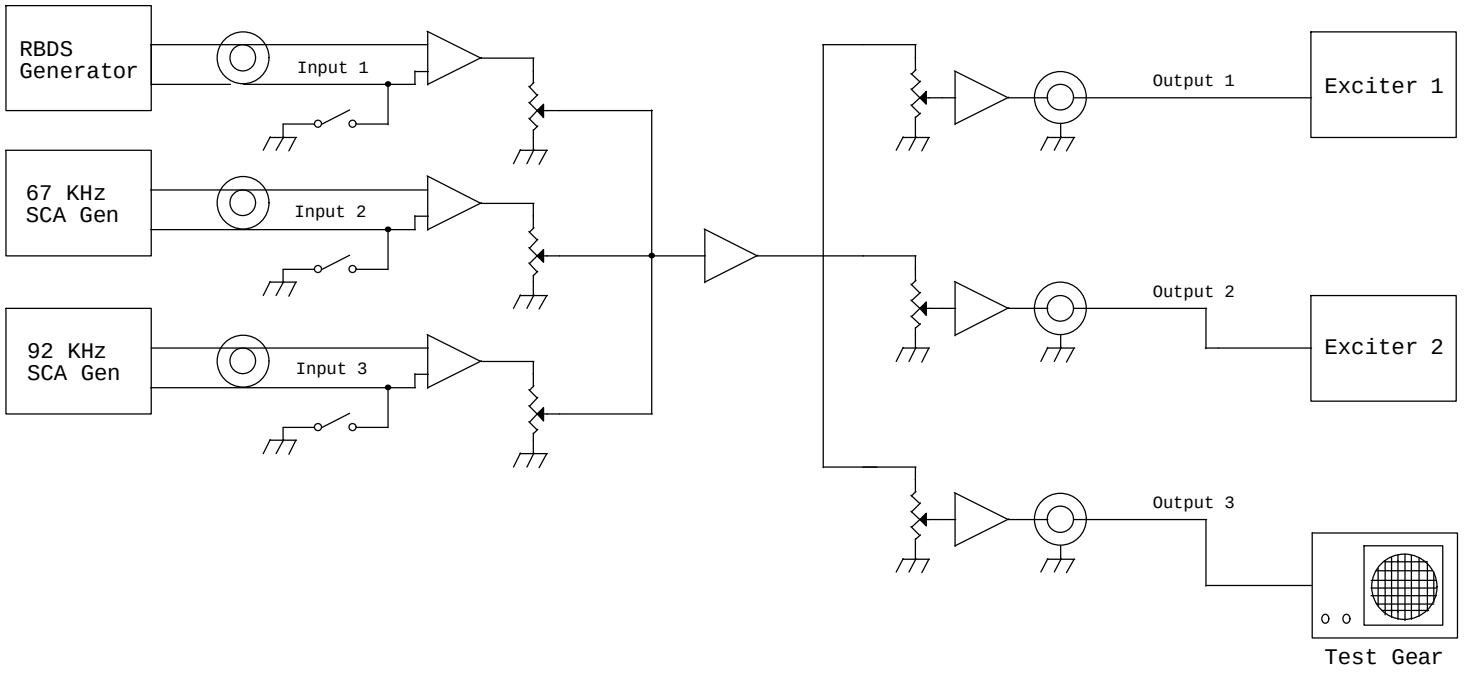
Application: Adding RBDS with the Broadcast Devices, Inc. CMP-300 Composite Mixer/DA System

Benefits: Reduction in cost by eliminating the need for a second RBDS generator. One less input to the exciter is used allowing for application of 67 and 92 KHz sub carriers to an analog exciter. Many older exciters only have provision for one composite and two sub carrier inputs. By use of method described in this application note, an older but serviceable exciter can be used which reduces costs. Additional sub carrier generators and/or composite stereo generators can be added to the other two inputs for application to older exciters lacking enough inputs to accommodate additional inputs.

This application note describes how to use the CMP-300 Composite Mixer/DA for RBDS generator applications. By use of the CMP-300, a station can utilize one RBDS generator to apply an RBDS sub carrier to main and standby exciters simultaneously with an extra output available for test equipment or a third exciter. .

Refer to the accompanying block diagram for this discussion. Connect the output of the RBDS encoder to input #1, 2, 3 on the rear of the CMP-300. Connect the outputs of the CMP300 to the main and back up exciter. Connect additional SCA generators to the other inputs if desired. Once all connections are made, follow the RBDS encoder manufacturer's instructions for set up and level trimming. A final level trim can be accomplished using the front panel level controls of the CMP-300.

For any application feel free to call or email us for further information. Telephone – (914) 737-5032 or email us at Techsupport@Broadcast-Devices.com



Model CMP-300 Composite Mixer/DA Block Diagram