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RAD Repeater Audio Delay

The Arcom RAD uses the latest state-of-the-art CMX639 CVSD Codec and offers all-digital high performance operation. By using the RAD, you can eliminate squelch bursts when user unkey their radios and completely mute all DTMF.

The RAD can provide from 8 milliseconds to over 2 seconds of audio delay, selectable by easy DIP switch settings:

	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
Delay Time in seconds								
2.048	ON	ON	ON	ON	ON	ON	ON	ON
1.024	OFF	ON	ON	ON	ON	ON	ON	ON
.512	OFF	OFF	ON	ON	ON	ON	ON	ON
.256	OFF	OFF	OFF	ON	ON	ON	ON	ON
.128	OFF	OFF	OFF	OFF	ON	ON	ON	ON
.064	OFF	OFF	OFF	OFF	OFF	ON	ON	ON
.032	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON
.016	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON
.006	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF

**For most installations, .128 seconds delay is recommended

Be sure to set the DIP switches as shown above. Failure to observe the settings may result in choppy audio.

Hookup

When connecting the RAD to the RC-210 Deluxe Repeater Controller, you simply connect the supplied cable between J1 on the RAD and JP7, JP8 or JP9 on the RC-210, depending on which port you wish to have audio delay. See the RC-210 Hardware Manual for details about these connectors.

The extra wire, coming from pin 5 of J1 on the RAD, is used to connect the COS signal from the RC-210. This gates the RAD so you don't have a burst of noise when a user first keys, if you've selected a longer delay time. It should be connected to the ANODE side of the COS LED for the port you're using the RAD on. For example, if you've installed the RAD on Port 1, the wire should be soldered to anode side of the green LED marked "P1 COS".

J1 Pinout

- 1 +12 In
- 2 Audio In
- 3 Delayed Audio Out
- 4 Ground
- 5 COS (active low)

