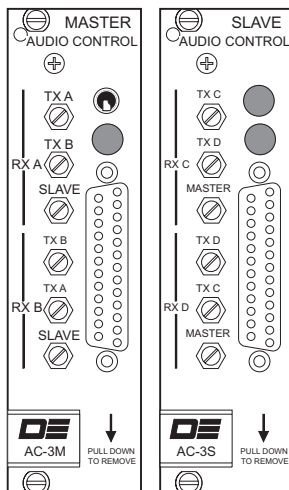


TN630 AC-3M-96 / AC-3S-96 Audio Control Cards

The audio control card is a plug-in module which provides audio routing, PTT routing, and muting controls for MT-3 radio systems. The AC-3M-96 and AC-3S-96 interconnects two sub racks with three or four transceivers. The AC-3M-96 master audio control card determines all operational aspects of the radio system. The AC-3S-96 slave audio control card is connected to the master through a DB25 cable attached to the front panels on both modules. The audio control card includes the following features:

- * 600 Ω unbalanced audio output circuitry supporting four transmitters.
- * 4.7 K Ω unbalanced audio input circuitry supporting four receivers.
- * front panel audio level adjustments.
- * isolated and non-interactive audio controls providing -30 dBm to -2.9 dBm dynamic input range and -22 to +5 dBm dynamic output range.
- * two independently adjustable hang timers.
- * up to four optional CTCSS decoders and encoders.
- * optional DTMF decoder with acknowledge tone and remote battery voltage monitoring.
- * maximum 23 mA current draw with all audio paths enabled



Common modes of operation used in a multi-transceiver system including audio routing, PTT / COR and COR / RX MUTE sequence, hang timer settings, CTCSS and DTMF settings, battery monitor and acknowledge tone, are selected on the master audio control card.

The AC-3M-96 and AC-3S-96 provide six front panel level controls for adjusting the deviation levels between various receivers and transmitters, and between the master and slave audio control cards. Two switches are mounted on the front of the audio control cards that can be configured to control CTCSS on/off or repeat disable. The DTMF decoder can be configured to remotely enable / disable audio paths, generate an acknowledge tone, and generate a tone corresponding to battery voltage. Configuration of all switches and settings on the audio control card is set up at the factory at the time of order.

