SD-10 Studio Transmitter Link (STL) Backup for Radio Stations

While most commercial radio stations have their antennas located atop a mountain in some remote locale, the studios where the programs originate are generally located in the cities which they serve.

Linking the studio and transmitters are microwave Studio-Transmitter Links, commonly called 'STLs' in broadcasters' jargon. Although generally reliable, as with anything electronic, things can go wrong. Then the station commits the cardinal sin of all broadcasting: "Dead Air"!

Some radio stations are using our little Sd-10s as their normal audio source. Others are using them as backups for their Studio-Transmitter links. Although the normal Sd-10s will work in this application, we now have an enhanced 'Sd-10/STL' version that has a few small tweaks to make it work just that much better in this application.

The Sd-10 is loaded with a Sd flash card with whatever programming the station wishes to broadcast. Its job is to simply wait at the base of the antenna in the transmitter room until something goes wrong. Upon sensing the Loss-Of-Signal message from the STL, it immediately starts playing the SoundFiles from its Sd flash card. At the user's option, it can be set to play each SoundFile in turn or at random. When the STL comes back on line, the Sd-10/STL stops playing the current SoundFile and waits for the next STL failure.

Please note when ordering an SD-10/STL for this application, please specify in the order for "STL Mode".

The following are instructions on how to utilize the STL function:

1. Connect trigger Input A of the SD-10/STL to the STL loss of signal indicator at your transmission tower (*must be at least 9VDC to work).
2. "STL" is a special version of "Mode One".
3. Set to "STL Mode" by turning on Dip Switch 1.
4. Set Dip Switch 4 (OFF=Sequential playback) or (ON=Random playback)
5. As long as Input A is active, the audio files should play endlessly.
6. When Input A is inactive, the audio files should stop playing.
7. Input B is not currently expected to be used.
8. The SD-10/STL can hold up to 255 Audio Files (which may be limited by the size of the actual card AND the total size of all files being used).