

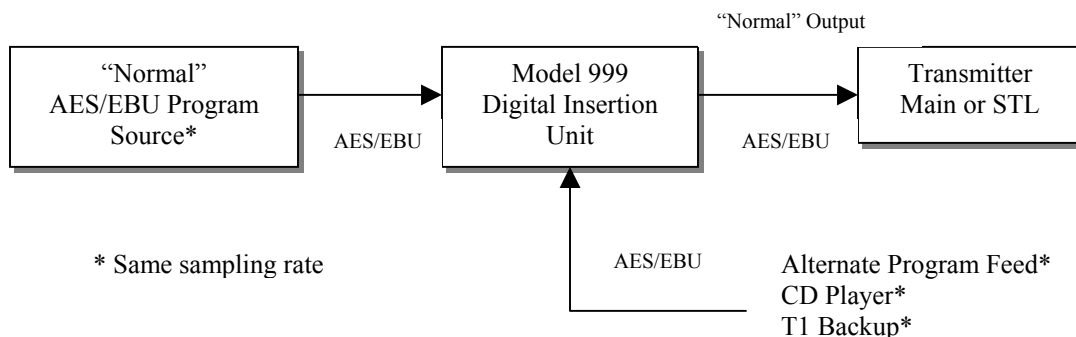
TFT INC Model 999 Digital Insertion Unit

APPLICATION NOTE

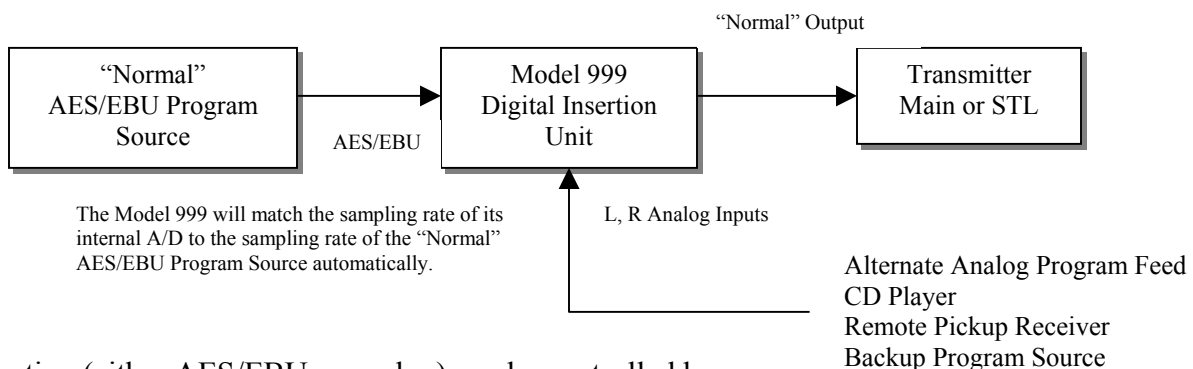
The Model 999 Digital Insertion Unit can be used to switch any AES/EBU or analog audio input into another AES/EBU stream. Most often used to insert the analog output of an EAS encoder or decoder into an AES/EBU program stream, the 999 can also be used for other applications that require “seamless” transfer between AES/EBU sources.

The 999 handles sampling rates of 32, 44.1, and 48 ks/s and has a normal AES/EBU input, a normal AES/EBU output, analog (Left and Right) insert audio inputs, and an AES/EBU insert input. The unit features a hard relay bypass circuit to connect the normal AES/EBU input directly to the normal AES/EBU output in the event of a power failure or malfunction. When the analog insert inputs are used, the Model 999 samples the normal AES/EBU input and matches the sampling rate of its A/D converter to the normal input rate.

To switch an alternate AES/EBU audio stream into the normal audio stream, the Model 999 can be connected as shown here.



To switch an analog source into the normal AES/EBU audio stream, the Model 999 can be connected as shown here.



Insertion (either AES/EBU or analog) can be controlled by

- 1) Contact closure
- 2) Loss of "Normal" Program Source, or
- 3) Insert activity