DESCRIPTION

The TACAN set is a "126 channel", airborne, UHF receiver-transmitter with decoding and data computation capabilities that are used for performing several tactical air navigational functions. These functions determine the bearing of the aircraft with respect to a surface beacon, or the slant range from the aircraft to a beacon. The TACAN set provides appropriate output signals to display this information on a bearing-distance-heading indicator (BDHI), the indicator not being a part of the TACAN set. In addition, the TACAN set receives a periodic identification signal from the beacon transmitter, which, after proper processing within the TACAN set circuitry, results in a corresponding audio output signal in Morse code to the aircraft’s intercommunication system.

The TACAN set AN/ARN-84 is capable of operation on any of the 126 available channels in each of two modes: X and Y, both in air-to-ground and air-to-air.