

**AN/TRC-133A
Radio Terminal Set**

NSN: 5820-00-464-1616

Reference: TM 11-5820-610-14

General Information

The AN/TRC-133A is a transportable, tactical HF, nonsecure SSB radio terminal set mounted in an S-280A type shelter. The shelter contains five radio positions which can be connected to separate doublet antennas provided as part of the radio terminal. Positions 1 and 2 can be operated with separated 15-foot whip antennas, which are used when the radio terminal set is needed for mobile operation and powered from the 28-volt DC vehicular electrical system. In addition, Radio Frequency Amplifier AM-3979/FRC-93 is provided to allow any one of the five positions to transmit on increased output power to extend the operating range of the position so selected. Current tactical speech security equipment is not compatible with the AN/TRC-133A; therefore, secure voice is not a mode of operation.

Technical Characteristics

Type of Service	3K00J3E (selectable USB or LSB), 100HA1A, 1K10A1A
Frequency Range	3.4 to 5.0 MHz and 6.5 to 30
MHz Planning Range	Ground wave, 80 km(50mi); sky wave, see intermediate sky wave propagation chart FM 11-486-6
Number of Channels	130, crystal controlled
Power Input	110 V AC, 60 MHz, single phase and 28 V DC (max) for mobile mode
Power Source	10 kW, Power Supply PU-619
Power Output	RT-718, 100 W PEP; RT-718 with AM-3979, 1,000 W PEP
Antenna	Quarter-wave whip or doublet antenna
Tuning	Continuous in 200 kHz bands using CK-31
Weight	2,272.2 kg (5,000 lb)
Limitation	Nonsecure operation

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