

AN/TRC-133A Radio Terminal Set

Status: STD-A; 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 (50 mi); 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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