

**AN/TSC-54
Satellite Communications Terminal**

Status: STD-B; NSN: 5895-00-937-4993

Reference: TM 11-5895-389-12

General Information

The AN/TSC-54 is a satellite terminal originally designed for quick reaction use with a military SATCOM system. It is completely transportable in two C-130 cargo aircraft. The AN/TSC-54 requires only a few hours for assembly, installation, and the initiation of operations. Terminal elements break down into packages, none weighing more than 2.7 MT (3 t), for helicopter airlift; total weight is 10.2 MT (11.2 t). The terminal is also utilizable in a fixed mode and uses additional multiplexing equipment in this mode. The AN/TSC-54 is considered obsolete as a mobile terminal.

Technical Characteristics

Type of Service-----50000KF9W (single channel voice and FSK)
for tactical mode; strategic mode has
capabilities similar to AN/TSC-86

Frequency Range:
Transmit-----7.9 to 8.4 GHz
Receive-----7.25 to 7.75 GHz

Planning Range-----16,093 km (10,000 mi)

Power Input-----120 V AC, 400 Hz

Power Source-----45-kw generator set

Power Output-----5 kw

Antenna System-----Cloverleaf made up of four individual
parabolic surfaces 3.05 m (10 ft) in
diameter

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