

FM 24-24

AN/TSC-54
Satellite Communications Terminal

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 also is usable 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

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|-----------------------|---|
| Type of Service | 50000KF9W (single-channel voice and FSK for tactical mode strategic mode has capabilities similar to the 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 | 1 20 V AC, 400 Hz |
| 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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