

**AN/MSC-46
Satellite Communications Terminal**

NSN: 5895-00-999-7317

Reference: TM 11-5895-826-14

General Information

The AN/MSC-46 is the first satellite terminal specifically designed for a military SATCOM system. It is completely air transportable in three C-130 cargo aircraft. The total terminal weight is 56.7 MT (62.5 t) and requires site preparation prior to installation and use. The terminal operates via the DSCS satellite with a compatible ground terminal to provide multilink, multivoice, and data channel service.

Technical Characteristics

Type of Service	500000KF9W (multilink, multivoice, and data) on low power amplifier 125000KF9W on high power amplifier
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	120/208 V AC, 50/60 Hz, three phase
Power Source	Uses three generator sets (100 kW) to supply the required 175 kW (50% backup) or two generator sets (500 kw)
Power Output	5 kW
Antenna System	Parabolic, 12.19m (40 ft) in diameter, in either an inflatable or rigid radome

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