

AN/MSC-46 Satellite Communications Terminal

Status: STD-B; 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 metric tons (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, 3-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, 12.19 m (40 ft) in diameter,
in either an inflatable or rigid radome

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