

Model SAT1705-S Portable Terminal Antenna System

The SAT1705-S antenna utilizes lightweight graphite composite construction and provides dual X/Ku operation without feed removal. It operates in both receiving and transmitting modes providing a conical scan beam characteristic and an RF-to-free space interface with an airborne data link terminal. The pedestal system is capable of tracking airborne targets with a travel range of 0 to 90° elevation and full motion 360° azimuth. The antenna is transportable worldwide via highway, unimproved roads, air, helo lift, marine modes and is shown here mounted on a High Mobility Multipurpose Wheeled Vehicle (HMMWV). The antenna is also available without the pedestal (Model SAT1706).

Features

- Transportable data Link Terminal
- Conical Scan Tracking System
- Dual X and Ku Band



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Specifications

FREQUENCY RANGE	X Band :	• 9.7 to 10.5 GHz
	Ku Band:	• 14.4 to 15.5 GHz
ANTENNA GAIN	X Band :	• 42 dB min
	Ku Band:	• 44 dB min
CROSSOVER LEVEL	X Band :	• 1.6 dB ± .4 dB
	Ku Band :	• 2.5 db -1.0 +.5 dB
SIDELOBES		• -20 dB max
POLARIZATION		• RHCP
AXIAL RATIO		• 2.0 dB max
FRONT TO BACK RATIO		• 40 dB
BEAMWIDTH		• 1.30° max @ 9.7 GHz • 0.95° max @ 15.5 GHz
VSWR		• 1.3 : 1 max
RF POWER CAPABILITY		• 200 watts CW max
ANTENNA MECHANICAL		• 74 inches
PEDESTAL TRAVEL RANGE		• EL : 0° - 90° • AZ: 360° continuous