

Model SAT1735-S Antenna Systems

The SAT1735-S is a switching dual-band, dual-beamwidth transmit/receive antenna and positioner system. It utilizes a 48" single-piece parabolic antenna with dual-band feed assembly for the narrowbeam pattern, and a tapered horn antenna for the broadbeam pattern. The controller accepts azimuth and elevation angle data and positions the antennas appropriately. The SAT1735-S takes less than 30 minutes for two people to set up.



Frequency Bands

	Transmit	Receive
X-Band :	9.71 - 10.26 GHz	10.14 - 10.435 GHz
Ku-Band:	15.15 - 15.35 GHz	14.40 - 15.22 GHz

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Mechanical

ANTENNA	<ul style="list-style-type: none"> Segmented 48 inches diameter parabolic reflector with self aligning petals
WEIGHT	<ul style="list-style-type: none"> 225 lbs (excluding transit cases)
PEDESTAL TRAVEL RANGE	<ul style="list-style-type: none"> -5° to +85° EL, 360° continuous Az
STOWAGE	<ul style="list-style-type: none"> Reflector/Feed/RFE - 10.0 cubic ft pedestal - 19.0 cubic ft tripod - 4.8 cubic ft
ADJUSTABLE TRIPOD	<ul style="list-style-type: none"> Allows leveling on uneven terrain up to a 15° incline
STOW PINS	<ul style="list-style-type: none"> AZ and EL stow pins to lock antenna when powered down

Electrical / RF		Narrow Beam	Broad Beam
EIRP	X-Band :	69.1 dBm	41.6 dBm
	Ku-Band :	72.7 dBm	41.1 dBm
G / T	X-Band :	8.0 dB/K	-16.4 dB/K
	Ku-Band :	12.0 dB/K	-15.2 dB/K
GAIN	X-Band :	1.7°	29°
	Ku-Band :	1.2°	20°
AXIAL RATIO		<3 dB	
POLARIZATION		RHCP	
REC SIGNAL STRENGTH		-140 dBm to -80 dBm	
SIDELOBES		-18 dB	
FRONT TO BACK RATIO		35 dB min. for N/B antenna only	
VSWR FEED		1.5 : 1 max	
VSWR ANTENNA		2.0 : 1 max.	
PRIME POWER		28 VDC, 420W typical operating conditions	