

SVS SATELLITE SYSTEMS

SM450-RECEIVE ONLY ANTENNA

- 4.5 meter Receive Only Parabolic Antenna
- Low Transportation Cost with Eight Panel Reflector
- Compliant with Ku, C or DBS Band Feeds
- Fully galvanized steel Az/EI mount
- Galvanized king post included
- Optionally, Tracking System with the Beacon Receiver or DVB Tuner Card Optionally De-Icing System
- Optionally De-Icing System



- SM450 Receive Only C Band or Ku Band Antenna is a high performance, powerful and efficient Motorised Antenna System.
- The versatile pedestal mount allows for fixed or motorized applications and features 180 degree azimuth coverage.
- Three axis, motorized system with 180 degrees azimuth adjustment
- Integrated database for potentially accessible satellite

Mechanical Limit Switches

Provides limitation for the 3-axis movement, stow position & status control by 8-limit switches

DVB Tuner Card & Beacon Receiver

Provides Tracking specification to the antenna DVB Tuner Card is a solution just for Ku Band but Beacon Receiver can provide the both Band antennas.

Applicable Options

2 port receive, De-icing, Tracking System, C or Ku Feed.



Antenna Control Capabilities

Level 1 : Simple version to control azimuth, elevation, polarization movement, automatic stow and deploy to preset position.

Level 2 : Automatic antenna pointing to selected satellite by using GPS and fluxgate compass.

Level 3 : Tracking of an inclined orbit satellite by using tuner card or Beacon receiver



Esenkent Mah. Baraj Yolu Cad. Emirgan Sok. No: 3
34776 UMRANIYE-ISTANBUL-TURKEY
Tel: +90 216 329 56 00 Fax: +90 216 329 02 99
www.svstelekom.com.tr sales@svstelekom.com.tr

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RF SPECIFICATIONS

	C-Band	Ku-Band
Frequency Band	3.7-4.2 GHz	Rx 10.95-12.75 GHz
Polarization	Linear or Circular	Linear
Antenna Gain	42.9 dBi	52.6 dBi
Antenna Noise Temperature(30° elevation)	23 K	22 K
Antenna Cross Polarization Isolation	35 dB on Axis	35 dB on Axis
Copolar Sidelobe Envelope	0 dB	0 dB
3 dB Beamwidth	1.2 °	0.42°
VSWR	1:3:1 Max	1.3:1 Max
Feed Interface	CPR 229	WR-75 Flat Flange

MECHANICAL SPECIFICATIONS

Antenna Geometry	Parabolic,Front Feed
Antenna Reflector Effective Aperture	4.5 m
Ports	2 ports
Elevation Range	0°-70°(Adjustable 20°-90°)
Azimuth Range	±150°(Optionally ±180°)
Polarization Range	±100°
Weight	700 kg
Reflector Material	Glass Fiber-Reinforced Polyester

Speed

Minimum

Maksimum

Elevation	0.1°/sec	1°/sec
Azimuth	0.1°/sec	1°/sec
Polarization	0.5°/sec	13°/sec

ENVIRONMENTAL SPECIFICATION

Operational

Survival

Wind Load	100km/h	160 km/h
Ambient Temperature	-30°C to +60°C	-40°C to 70°C
Humidity	%0 - %100	%0 - %100

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SDO 120 KU MOTORIZED SNG ANTENNA

RF SPECIFICATIONS		Transmit	Receive
Frequency Band		13.75-14.5 GHz	10.7-12.75 GHz
Polarization		Linear Orthogonal	Linear Orthogonal
Antenna Gain		43.4 dBi(14.250 GHz)	41.8 dBi(11.750 GHz)
Antenna Noise Temperature		-	48°K el; 10°
Antenna Cross Polarization Isolation		35 dB	35 dB
	29-25 log θ dBi	1.7° < θ < 7°	-
Copolar Sidelobe Envelope	8 dBi	7° < θ < 9.2°	-
	32-25 log θ dBi	9.2° < θ < 48°	-
VSWR		<1.3:1 Max	
Feed Interface		WR-75	WR-75
Tx to Rx Isolation (with transmit reject filter)		80 dB	40 dB
Insertion Loss		0.2 dB	0.3 dB
MECHANICAL SPECIFICATIONS			
Antenna Geometry		Dual Optic Gregorian	
Antenna Reflector Effective Aperture		120 cm	
Ports		2 (optionally 3 port)	
Elevation Range		0°-70° (without housing), 10°-70° (with housing), (Up limit can be adjustable till 90°)	
Azimuth Range		±180°	
Polarization Range		±100°	
Elevation Safety Stow Degree		12°	
Weight		130 Kg antenna(Pod 28 kg)	
Reflector Material		Fiber Glass	
SPEED (32 steps easy adjustable speed driven by user)			
Elevation		Minimum 0.2°/sec	Maksimum 4°/sec
Azimuth		0.2°/sec	4°/sec
Polarization		0.2°/sec	4°/sec
Dimensions		Max 187x131x58,5 cm (with pod)	
ENVIRONMENTAL SPECIFICATION		Operational	Survival
Wind Load		80km/h	160 km/h(stowed)
Ambient Temperature		-20°C to +50°C	-40°C to 60°C
Humidity		%0 - %100	%0 - %100





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