

SVS SATELLITE SYSTEMS

SDC150 DIAMOND MOTORIZED SNG ANTENNA

- Eutelsat auto-pointing approval with resolver option
- Diamond shape offset carbon fiber reflector(1.5m)
- Designed for Ku, Ka, DBS, C, X band applications
- Easy to mount
- Robust
- High performance
- 3-axis efficient antenna
- Can be adapted for custom implementations



EUTELSAT APPROVAL

SDC150 is a high performance, powerful and efficient motorised SNG Antenna System.

SDC150 is designed for Ku-band uplink operations as part of uplink vehicles.

It has been also designed for heavy duty conditions as a reliable system which was proved in field for many years in operation.

SDC150 is an easy to mount antenna system on the top of the vehicle through its compact design.

Once you fix the antenna you can use the system for many years without any problem.

SDC150 has the Eutelsat auto-pointing approval by achieving 0.01° sensibility with the advanced auto-pointing algorithm and hardware.

SDC150 is developed for quality focused customer segment of the market.

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.



Mechanical Limit Switches : Provides limitation for the 3-axis movement, stow position & status control by 8-limit switches.

DVB Tuner Card : Allows to make fine tuning and recognize satellite.

Applicable Options : 2 port receive Housing, De-ice.



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

SVS SATELLITE SYSTEMS

SDC150 DIAMOND MOTORIZED SNG ANTENNA

RF SPECIFICATIONS			
		Transmit	Receive
Frequency Band		13.75-14.5 GHz	10.95-12.75 GHz
Polarization		Linear Orthogonal	Linear Orthogonal
Antenna Gain		46 dBi(Typcial)-45.5 dBi(min)	44 dBi(Typcial)-43.7 dBi(min)
Antenna Noise Temperature		-	48°K el; 20°
Antenna Cross Polarization Isolation		35 dB	35 dB
(θ=90°)In Azimuth plane	25-25 log θ dBi	1.0° < θ < 2.5°	-
	19-25 log θ dBi	2.5° < θ < 15.0°	-
	-10dBi	15.0° < θ < 140.0°	-
Off Axis Gain(Tx-Rx)	+5dBi	140.0° < θ < 180.0°	-
	29-25 log θ dBi	1.0° < θ < 35.0°	1.5° < θ < 35.0°
	-10dBi	35.0° < θ < 130.0°	35.0° < θ < 120.0°
(θ=0°)In Elevation plane	+5 dBi	130.0° < θ < 180.0°	130.0° < θ < 180.0°
	VSWR	<1.3:1	-
Feed Interface		WR-75	WR-75
Tx to Rx Isolation (with transmit reject filter)		>80 dB	
Insertion Loss		0,2 dB	0,3 dB

MECHANICAL SPECIFICATIONS	
Antenna Geometry	Offset Front Feed
Antenna Reflector Effective Aperture	Diagonal: 1.9 m, Across Flat : 1.5 m
Ports	2 (optionally 3)
Elevation Range	0°-70° (without housing), 5°-70° (with housing), (Up limit can be adjustable till 90°)
Azimuth Range	±180°
Polarization Range	±95°
Elevation Safety Stow Degree	Adjustable
Weight	200 kg with pod
Reflector Material	Carbon Fiber
Dimensions	Max 232x189x68 cm (with pod)

SPEED	Minimum	Maksimum
Azimuth	0.2°/sec	1.6°/sec
Elevation	0.2°/sec	1.6°/sec
Polarization	0.2°/sec	4.8°/sec

ENVIRONMENTAL SPECIFICATION		
	Operational	Survival
Wind Load	60km/h	160 km/h(stowed)
Ambient Temperature	-30°C to +60°C	-40°C to +70°C
Humidity	%0 - %100	%0 - %100

