

# SVS SATELLITE SYSTEMS

## SVSAT120 Ka Band Motorized Antenna

- New Universal Mechanical Design
- High RF Performance
- Supports different platforms like Tooway, Hughes, idirect, Avanti
- Easy Integration of TRIA (BUC, LNB , Feed and OMT)
- Strong and Gapless Gear Structure
- Outdoor Antenna Controller with Remote Control
- Designed for VSAT and Broadcast Applications
- Auto Pointing with 2 Axis Movement
- Optional 3 – Axis Movement
- Control via Tablet, Smart Phone, PC or Indoor Controller
- Standart GPS-Compass on Antenna
- Easy Installation



SVSAT120 Ka Band antenna system is a easily configured, simple to operate auto-deploy VSAT and Broadcasting terminal which can be mounted on the roof of a vehicle. It is suitable for the most demanding applications. Ideally suited for applications that require a quick, simple set-up typically for industries such as Disaster Management, Oil & Gas Exploration, Mining, Construction, Mobile Offices and Emergency Services.



### ANTENNA OPTIONS

- DE-ICING OPTION UP TO 2500 W
- HALF HOUSING OPTION
- 7/24 REMOTE SUPPORT SERVICE OPTION
- ON SITE PREVENTATIVE MAINTENANCE SERVICE OPTION
- ON SITE COMMISSIONING SERVICE OPTION
- INDOOR CONTROLLER
- 3-AXIS MOVEMENT



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# SVSAT120 Ka Band Motorized Antenna

RF SPECIFICATIONS		Transmit	Recive
Frequency Band		29.50-30.00 GHz	19.20-20.20 GHz
Polarization		Circular	Circular
Antenna Gain(±2dB)		49.5 dBi @ 30.00 GHz	46.3 dBi @ 20.20 GHz
Antenna Noise Temperature		44°K EI; 30°	
Antenna Cross Polarization		25 dBi within 1 dB Beamwidth	22 dBi within 1 dB Beamwidth
Side Envelope Co-Pol (dBi)	100M/D < $\theta < 20^\circ$ 20° < $\theta < 26.3^\circ$ 26.3° < $\theta < 48^\circ$ $\theta > 48^\circ$	29-25 log $\theta$ dBi -3.5 dBi 32-25 log $\theta$ dBi -10dBi (typ)	- - - -
3 dB Beamwidth		0.56° @ 30.0 GHz	0.83° @ 20.2 GHz
VSWR		1.3:1 Max	-
Feed Interface		WR-28	WR-42
Isolation		90 dB	80 dB
MECHANICAL SPECIFICATIONS			
Antenna Geometry		Offset Feed Prime Focus	
Antenna Reflector Effective Aperture		120 cm	
Ports		1	
Elevation Range		0°-55°	
Azimuth Range		±180°	
Polarization		LH or RH	
Elevation Safety Stow Degree		Adjustable	
Weight		80 kg	
Reflector Material		Fiber Glass	
Dimensions		Max 170x123x45 cm (with pod)	
SPEED		Minimum	Maximum
Azimuth		0.22°/sec	2.29°/sec
Elevation		0.15°/sec	1.52°/sec
Polarization		-	-
ENVIRONMENTAL SPECIFICATION			
		Operational	Survival
Wind Load		70km/h	160 km/h(stowed)
Ambient Temperature		-30°C to +60°C	-40°C to +70°C
Humidity		%0 - %100	%0 - %100

