

SVS SATELLITE SYSTEMS

SVSAT 120-Ku

- 120cm Dual Optic Offset Antenna
- Robust
- Precision compression molded offset reflector
- Three axis motorized system
- High Performance
- Designed for Ku band VSAT applications
- Easy to mount



- 120cm antenna is a high performance, powerful and efficient motorised antenna system.
- The versatile pedestal mount allows for motorised applications and features $\pm 180^\circ$ azimuth coverage in three continuous overlapping ranges.
- Optional Housing, De-icing system

- Mechanical Limit Switches : Provides limitation for the 3-axis movement, status control by eight limit switches.
- Integrated DVB-S/S2 Tuner Card.
- Applicable Options : 2 port receive, de-icing, housing
- Advanced Antenna Control Capabilities
- Automatic antenna pointing to selected satellite by using GPS and Fluxgate compass
- To control azimuth, elevation, polarization movement, automatic stow and deploy to preset position.



Azimuth

Motor : 36 VDC
Sensor : Potentiometer
Resolver optionally

Elevation

Motor : 36 VDC
Sensor : Potentiometer
Resolver optionally

Polarization

Motor: 24 VDC
Sensor: Potentiometer

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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
Copolar Sidelobe Envelope	1.7° < θ < 7° 29-25log θ 7° < θ < 9.2° 8 dBi 9.2° < θ < 48° 32-25log θ	- - -
VSWR	1.3:1 Max	
Feed Interface	WR-75	WR-75
Tx to Rx Isolation	80 dB	40 dB
Insertion Loss	0.2 dB	0.3 dB

MECHANICAL SPECIFICATIONS

Antenna Geometry	Dual Optic
Ports	2 (optionally 3 port)
Elevation Range	0°-65°
Azimuth Range	±180°
Polarization Range	±120° (Optional)
Weight	110 kg
Reflector Material	Fiber Glass

Speed

Minimum

Maksimum

Elevation	0.2°/sec	4°/sec
Azimuth	0.2°/sec	4°/sec
Polarization (Optional)	0.5°/sec	5°/sec

ENVIRONMENTAL SPECIFICATIONS

	Operational	Survival
Windload	90 km/h	130 km/h(stowed)
Ambient Temperature	-20 ° C to +50 ° C	-40 ° C to +60 ° C
Humidity	%0-%100	%0-%100



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