

## SM180-RxTx FIXED MOTORIZED ANTENNA SOLUTION

As a fixed motorised antenna, SM180 Transmit-Receive Antenna System created a perfect alternative to the customers. SM180 which is supported by AKS250, has excellent movement ability on three axis. SM180 is used under difficult conditions for many years and with this experience we found excellent mechanical and controlling design.

- 1.8m transmit-receive offset antenna
- Compliant for C, Ku and X band feeds
- Galvanized support arm and alignment struts
- Supported by robust mechanic
- Supported by AKS250 antenna controller
- Movement on three axis
- Auto-peaking and auto-pointing opportunities
- Optionally, tracking system with the beacon receiver or DVB tuner card.
- Optionally, resolver for high sensitivity
- Optionally, de-icing system



For tracking system we offer you two option, DVD tuner card and beacon receiver. DVB tuner card can use for just Ku-Band antenna. But beacon receiver is fully compliant for Ku-Band and C-Band Antennas.

SVS SM180 Transmit-Receive antenna system is a robust, high performance, efficient and affordable antenna system. SVS Telekom provides the best value antenna solution to the market with competitive prices, the highest quality products and superb engineering support since 1995.

### Key words for SM180-RxTx antenna solution;

- **High Performance**
- **Robust**
- **Affordable**
- **Efficient**
- **Flexible**
- **Professional**
- **Durable**
- **Constantly Technical Support**



## SM180-RxTx FIXED MOTORIZED ANTENNA SOLUTION

### RF SPECIFICATIONS

	C-Band	Ku-Band
Frequency Band	Tx: 5.850 – 6.725 GHz Rx: 3.400 – 4200 GHz	13.75 – 14.50 GHz 10.70 – 12.75 GHz
Polarization	Linear orthogonal	Linear orthogonal
Antenna Gain	Tx: 39.3 dBi @ 6.1GHz Rx: 35.4 dBi @ 3.9 GHz	46.7 dBi @ 14.3 GHz 45.3 dBi @ 12.0 GHz
Antenna Noise Temperature(30° elevation)	33°K	23°K
Antenna Cross Polarization Isolation	30 dB on Axis	30 dB on Axis
Copolar Sidelobe Envelope	0 dB	0 dB
3 dB Beamwidth	Tx: 2.0 ° @ 6.1 GHz Rx: 3.0° @ 3.9 GHz	0.8°@14.3GHz 1.0°@12.0GHz
VSWR	TX: 1:3:1 RX: 1:4:1	1.3:1 1:5:1
Feed Interface	TX: CPR 137 or type N RX: CPR 229	WR-75 Flat Flange WR-75 Flat Flange

### MECHANICAL SPECIFICATIONS

Antenna Geometry	Off-Set Feed Prime Focus
Antenna Reflector Effective Aperture	1.8 m
Ports	2 ports
Elevation Range	10°-90°
Azimuth Range	±150°(Optionally ±180°)
Polarization Range	±100°
Weight	200 kg
Reflector Material	Glass Fiber Reinforced Polyester

### SPEED

	Minimum	Maksimum
Elevation	0.1°/sec	1.5°/sec
Azimuth	0.1°/sec	1.5°/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(Condensing)	%0 - %100(Condensing)