



V Series of SATCOM ON-THE-MOVE Antenna

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V Series flat wave guide array type on-the-move antenna is an integrated system developed for mobile satellite communication.

This system adopts the tracking method of combining fiber optic gyro inertial navigation and beacon to meet the tracking requirements of rapid change of vehicle's posture, which ensures the vehicle can track the satellite signal well under sharp turning and bumpy road conditions.

This antenna system is applicable to all Ku-band communication satellite at home and abroad, so that the carrier equipped with this system can always accurately acquiring at the satellite during the movement and conduct uninterrupted multimedia communication with the central station.

The whole system is integrated on the antenna turntable, which is the advantages of high precision and low-profile, rugged vehicle roof-mounted SATCOM antenna, easy to install and use.



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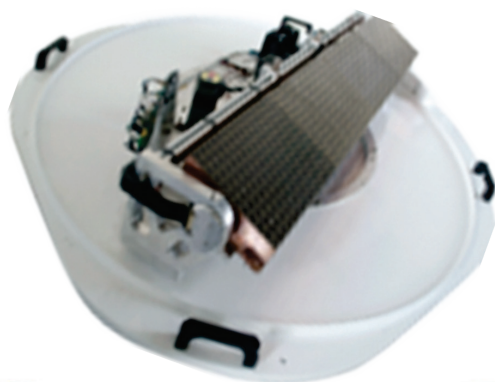
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0.6M SATCOM ON-THE-MOVE Antenna

Feature

- Excellent RF performance
- After system starts, all processes will be automatically completed without manual operation
- System can be completed automatically acquiring satellite in sport or in stationary
- Lose signal, re-acquisition time just 3 sec
- Max transmission data rate 4Mbps
- Easy to install, the ACU (1U 19-inch standard Rack mounting) is installed in the car cabinet And the rest is installed on the roof of vehicle



Configuration

- 0.6 Meter antenna and feed system
- Waveguide, connection cable, high and low frequency slip ring
- Azimuth and elevation turntable and servo drive motor
- Antenna control system
- Fiber optic gyro inertial navigation system
- Tracking receiver



R.F. Specifications		
Type	V600	
	Ku-Band	
Operating Frequency, GHz	Receive	Transmit
	10.95-12.75	13.75-14.50
Gain (dBi)	35.5	36.5
VSWR	1.25	1.25
Polarization	Linear, auto-adjustment / Horizontal, vertical	
Antenna G/T	12.6dB/°K	
Cross polarization(dB)	≥30dB	
Uplink EIRP (dB)	52.5BW (with ext. 40W BUC)	
Sidelobe Pattern	First side lobe level ≤ -12 dB	
Angular velocity	Az≥65°/s; El≥ 65°/s	
Angular acceleration	Az ≥200°/s ² ; El≥100°/s ²	
Mechanical Specifications		
Antenna Diameter	0.6m	
Antenna type	Prime focus antenna	
Azimuth Travel Range	Automatically adjusted, 360° continuous	
Elevation Travel Range	Automatically adjusted, 0° ~ 90°	
Polarization Travel Range	Automatically adjusted, ±95°	
Initial satellite acquisition & lock	<90 sec, Antenna tuned on a satellite beacon. Antenna location entered by the operator from an internal database	
Satellite re-acquisition	<3 sec(when loss blockage is <3 min); <5 sec(when loss blockage is <30 min); <30 sec(when loss blockage is > 3 min)	
Electrical Interfaces	N	WR75
Power supply	220V/AC, 50Hz	
Continuous power consumption	≤260 W (BUC not with)	
Tracking accuracy	≤0.2°	
Antenna weight / Antenna height	58kgs / ≤300mm	
Outdoor unit size	Φ1300mm×298mm	
Outdoor unit weight	<80 kg (Antenna only, excluding BUC)	
Temperature	-40°C ~ +70°C	
Humidity	100%	



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