



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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0.9M SATCOM ON-THE-MOVE ANTENNA

Feature

- Independent of Beidou satellite and GPS, and featuring high reliability.
- signal, re-acquisition time just 2 sec
- Max Integrated navigation sensors, control electronics and RF equipment on pedestal enhance the stabilization, acquisition and tracking performance.
- System can be completed automatically acquiring satellite in sport or in stationary.
- The combination of open-loop pointing, closed-loop tracking and software algorithm for sensor fusion enables high performance in an affordable architecture.
- The reflector adopts carbon fiber materials, which realizes a lighter weight.

Configuration

- 0.9 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
- Tracking receiver
- Gyro inertial navigation system



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R.F. Specifications		
Type	V900	
Diameter	0.9m	
Operating Frequency, GHz	Receive	Transmit
	KU Band	
	10.95-12.75	13.75-14.5
Antenna type	Prime focus antenna	
Sidelobe Pattern	First side lobe level ≤ -14 dB	
Gain (dBi)	38.5+ 20lg(f/12.5GHz)	39.5+ 20lg(f/14.25GHz)
Polarization	Linear	
Antenna G/T	16.3dB/°K	
Cross polarization(dB)	≥ 35	
Uplink EIRP(dB)	55.5(with ext. 40W BUC)	
Electrical Interfaces	N	WR75
Power supply	DC 48V, AC 110-220 50/60Hz (Optional)	
Continuous power consumption	650 W (ant.) + 10W (IDU)	
Mechanical Specifications		
Azimuth Travel Range	Automatically adjusted, 360° continuous	
Elevation Travel Range	Automatically adjusted, 15° ~ 90°	
Polarization Travel Range	Automatically adjusted, $\pm 180^\circ$	
Initial satellite acquisition & lock	<60sec, Antenna tuned on a satellite beacon. Antenna location entered by the operator from an internal database	
Satellite re-acquisition	<10sec (when Loss blockage is <20 minutes)	
Azimuth tracking accuracy	0.2°@ 60°/s, 200°/s ²	
Elevation tracking accuracy	0.9° @ 45°/s, 200°/s ²	
Outdoor unit size	$\Phi 135 \times 75$ H(cm)	
Outdoor unit weight	98 kg (Antenna only, excluding BUC)	



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