

## PROBECOM P SERIES VEHICLE MOUNT ON THE MOVE ANTENNA



### **P series On The Move Antenna System:**

The P series On The Move Antenna is built to track a single satellite while mounted on a stationary or moving vehicle at anywhere/anytime on the road.

The P series On The Move Antenna is highly efficient, low-profile, rugged vehicle roof-mounted SATCOM Ku-Band antenna capable of on-the-move broadband communication. The unit provides continuous broadband connectivity (voice, video and data) at highway speeds without antenna deployment delays. The antenna automatically acquires and tracks the desired Ku-band satellite using open-loop and closed-loop tracking and software algorithms. The P series On The Move interfaces to a modem that is installed internal to the vehicle.

### **P series On The Move Antenna Applications:**

- \* Off-road vehicle tracking
- \* High-speed internet access
- \* VoIP communications
- \* Teleconferencing
- \* Wide area private network extension
- \* Video broadcasting

**Specifications:**

Model No.	P9000
Stable Type and Track Type	Two-axis balancing stability (azimuth and elevation) Four-axis tracking (azimuth, elevation, receive polarization and transmit polarization)
Radome Size (Diameter×Height)	142×45cm
Net Weight	100kg
Antenna Type	Panel waveguide horn array antenna
Interoperability	Equiv. to 90cm Parabolic
Frequency range	Rx:12.25~12.75GHz ; Tx:14.0~14.5GHz
Gain (Polarization Converter)	Rx:38.5dBi (12.5GHz); Tx:39.7dBi(14.25GHz)
G/T	16.5dB/°K
EIRP	55.5dBW (40W BUC)
Cross Polarization Isolation	>30dB(Pause and in Motion)
Off Axis emission	≥30dB
Sidelobe Envelope Characteristic	Meet ITU-RS.465-6 standard
Polarization	Linear
Tracking Velocity	Azimuth: 150°/s Elevation: 120°/s Polarization: 100°/s
Tracking Acceleration	Azimuth: 800°/s <sup>2</sup> Elevation: 800°/s <sup>2</sup> Polarization: 600°/s <sup>2</sup>
Dynamic Accuracy	0.2°RMSE
Travel Range	Azimuth: 360°continuous Elevation: 0°~90° Polarization: 360°continuous
Initial Acquisition	<120s(pause), <180s(in motion)
Re-acquisition	<1 second for <30 seconds blockage <5 seconds for <20 minutes blockage
Inertial Navigation System	Built-in
Power	AC220V, 50Hz
Operational Temperature	-40℃~65℃

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