

## **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:**

<b>Model No.</b>	<b>P7200</b>
<b>Stable Type and Track Type</b>	<b>Two-axis balancing stability (azimuth and elevation) Four-axis tracking (azimuth, elevation, receive polarization and transmit polarization)</b>
<b>Radome Size (diameter×height)</b>	<b>131×34cm</b>
<b>Net Weight</b>	<b>75kg</b>
<b>Antenna Type</b>	<b>Panel waveguide horn array antenna</b>
<b>Interoperability</b>	<b>Equiv. to 72cm Parabolic</b>
<b>Operation Band</b>	<b>Rx:12.25~12.75GHz ; Tx:14.0~14.5GHz</b>
<b>Gain (Polarization Converter)</b>	<b>Rx:36.8dBi (12.5GHz) Tx:38dBi (14.25GHz)</b>
<b>Cross Polarization Isolation</b>	<b>&gt;30dB(Pause and in Motion)</b>
<b>Sidelobe Envelope Characteristic</b>	<b>Meet ITU-RS.465-6 standard</b>
<b>Polarization</b>	<b>Linear Polarization</b>
<b>Tracking Velocity</b>	<b>Azimuth: 150°/s Elevation: 120°/s Polarization: 100°/s</b>
<b>Tracking Acceleration</b>	<b>Azimuth: 800°/s<sup>2</sup> Elevation: 800°/s<sup>2</sup> Polarization: 600°/s<sup>2</sup></b>
<b>Dynamic Accuracy</b>	<b>0.2° RMSE</b>
<b>Travel Range</b>	<b>Azimuth: 360°continuous Elevation: 0°~90° Polarization: 360°continuous</b>
<b>Initial Acquisition</b>	<b>&lt;120s(pause) &lt;180s(in motion)</b>
<b>Re-acquisition</b>	<b>&lt;1 second for &lt;30 seconds blockage &lt;5 seconds for &lt;20 minutes blockage</b>
<b>Inertial Navigation System</b>	<b>Built-in</b>
<b>Power</b>	<b>AC220V, 50Hz</b>
<b>Operational Temperature</b>	<b>-40℃~65℃</b>