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**

Copyright© Probecom

Specifications:

Model No.	P8000
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×hight)	130×40cm
Net Weight	85kg
Antenna Type	Panel waveguide horn array antenna
Interoperability	Equiv. to 80cm Parabolic
Operation Band	Rx:12.25～12.75GHz ; Tx:14.0～14.5GHz
Gain (Polarization Converter)	Rx:37.5dBi (12.5GHz) Tx:38.7dBi (14.25GHz)
Cross Polarization Isolation	＞30dB(Pause and in Motion)
Sidelobe Envelope Characteristic	Meet ITU-RS.465-6 standard
Polarization	Linear Polarization
Tracking Velocity	Azimuth: 150°/s Elevation: 120°/s Polarization: 100°/s
Tracking Acceleration	Azimuth: 800°/s^2 Elevation: 800°/s^2 Polarization: 600°/s^2
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℃

Copyright© Probecom