

# SANETEL-T65

Low-profile Ku-band  
Satcom-on-the-Move Antenna for Vehicle



## Accompany your patrolling everywhere

Lowest profile and intelligent tracking create a reliable device for any vehicle

SANETEL-T65 Low-profile Ku-band Satcom-on-the-Move Antenna for Vehicle is utilized for land satellite communication applications. SANETEL T65 uses high-efficiency planar-array antenna to achieve ultra low-profile design. Dual-axis stabilized tracking system is adopted by SANETEL T65, ensuring precise acquisition and locking onto the geosynchronous satellites even during high-speed driving and over rugged terrain. In such a way, SANETEL T65 enables reliable, continuous broadband Internet access, E-mail, VOIP, VPN, Video Conference, Files and other data communications in spite of rapid maneuvering.

**SANETEL**  
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## Low-profile Ku-band Satcom-On-The-Move Antenna for Vehicle

### Advantages

- **Lightweight and Stable Structure**

Lightweight composite construction and low profile design enable SANETEL T65 to be deployed on a wide variety of both on-road and off-road commercial and governmental vehicles.

- **Highly Integrated and Cost-effective Design**

SANETEL T65 is highly integrated with built-in MEMS Inertial Navigation System and optional with integrated 40W Ku-band BUC, meanwhile the external BUC is also supported. The MEMS INS and relevant algorithms make it cost-effective.

- **Three-level Feedback Tracking Technology**

GPS/INS/Satellite Beacon Integrated Tracking Technology guarantees a satisfying satellite acquiring and locking precision even in cases of voyaging in harsh marine environments. This leading edge technology utilizes gyro angular rate, attitude angle, satellite beacon as feedback signals to stabilize the antenna.

- **Instantaneous Re-acquisition after Blockage**

The satellite acquisition and lock strategy ensures quick initial acquisition and instantaneous re-acquisition time after signal loss.

- **Excellent Compatibility and Expansibility**

SANETEL T65 supports TDMA, SCPC or Spread Spectrum and is compatible with a wide range of commercially available modem systems. Wireless control and remote management function are optional.

- **SANETEL Service**

After sales service is available 24x7x365 by hotline, E-mail and on-site engineers.

### Specifications

#### Mechanical

Stabilized Type	Dual-axis stabilized and Gear drive
Equivalent Dish Diameter	65 cm
Dimension(D×H)	130cm×30 cm
Antenna Weight	54 kg
Antenna Type	Planar-array antenna

#### Electrical

Frequency Range	Rx: 12.25~12.75 GHz
	Tx: 14.00~14.50 GHz
Gain	Rx: 35.8 dBi (12.50 GHz)
	Tx: 36.5 dBi (14.25 GHz)
Side-lobe	Compliant with ITU-R S.465-5 (AZ)
Cross-polarization isolation	≥30 dB (within 1 dB BW)
G/T	14dB/K@30° elevation
Signal Polarization	Liner Orthogonal
Power Requirement	AC 220 V @ 50 Hz
Power Consumption	200W

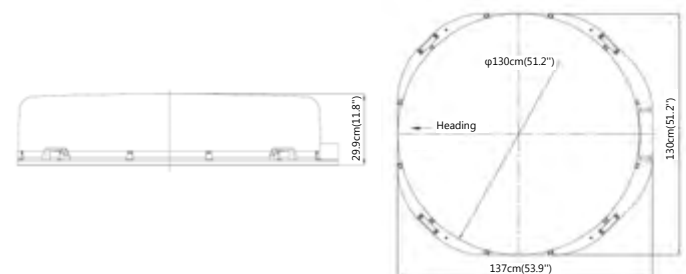
#### Tracking Performance

Initialization Time	≤2 min, cold start
Azimuth Range	360° continuous
Elevation Look Angle Range	0°~+90°
Antenna Polarization Range	±180°
Tracking Rate	Up to 80°/sec and 200°/sec <sup>2</sup>
Stabilization Accuracy	0.15°RMS
Satellite re-acquisition	Instantaneous capture for <40 sec blockage < 6 sec for <30 min blockage
GPS/Beidou/INS	Built-in

#### Environmental

Operating Temperature	-40°C~+65°C
Storage Temperature	-45°C~+70 °C
Ingress Protection Rating	IP65

### Antenna Dimension



Ver. June.2014