

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, file and other data communications in spite of rapid maneuvering.



Application



Antenna type



Profile



Built-in



Protection

SANETEL

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Specifications

Mechanical		Environmental	
Stabilized Type	Tri-axis stabilized Gear drive	Operating Temperature	-40 °C ~+65 °C
Dish Diameter	650mm	Storage Temperature	-45 °C ~+70 °C
Dimension(D×H)	1300mm×300mm	Ingress Protection Rating	IP67
Antenna Weight	54 kg	Ground Speed	Up to 350 kph
Antenna Type	Ring focus		
Electrical		Tracking Performance	
Frequency Range	Rx: 10.95~12.75 GHz	Initialization Time	≤2 min,cold start
	Tx: 13.75~14.50 GHz	Azimuth Range	360°continuous
Gain	Rx: 35.8 dBi (12.50 GHz)	Elevation Look Angle Range	0°~+90°
	Tx: 36.5 dBi (14.25 GHz)	Antenna Polarization Range	±180°
Side-lobe	Compliant with ITU-R S.465-5 (AZ)	Tracking Rate	Up to 80°/sec and 200°/sec ²
Cross-polarization isolation	≥25 dB (within 1 dB BW)	Stabilization Accuracy	0.15°RMS
G/T	14 dB/K@30° elevation	Satellite re-acquisition	Instantaneous capture for <40 sec blockage< 6 sec for <40 min blockage
Signal Polarization	Liner Orthogonal	GPS/BDS/INS	Built-in
Power Consumption	≤200W		

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.

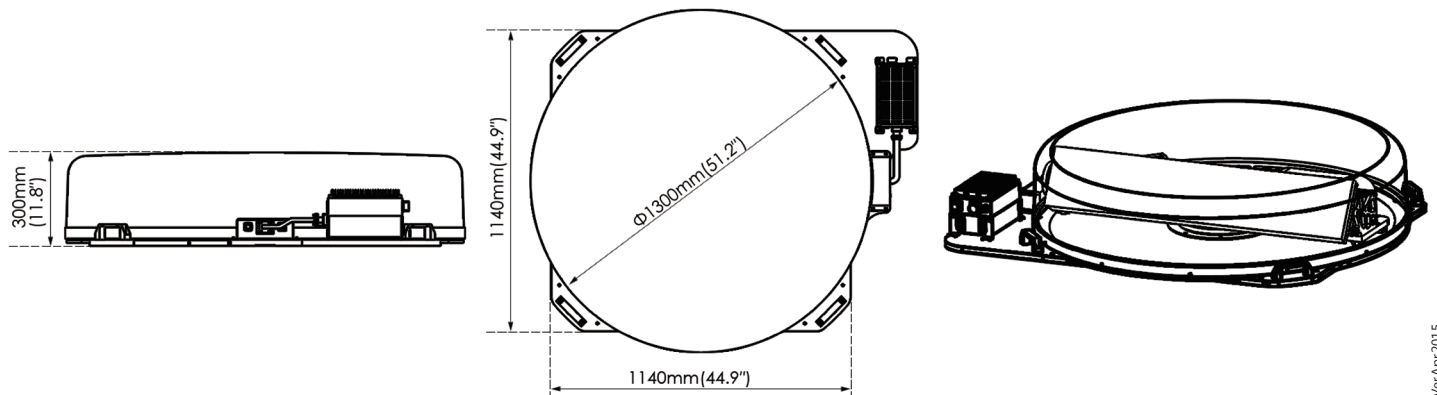
Excellent Compatibility and Expansibility

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.

Antenna Dimension



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