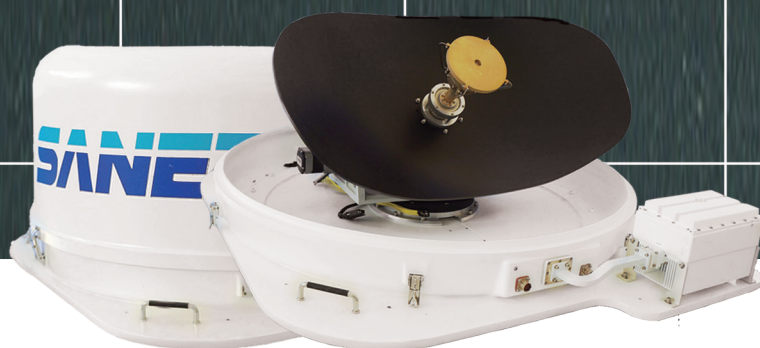




SANETEL-C80

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



Present the on-site situation for you anytime anywhere

Stable and precise satellite tracking
despite rugged terrain driving and rapid maneuvering

SANETEL-C80 Ku-band Satcom-on-the-Move Antenna for vehicle is utilized for land satellite communication applications. SANETEL C80 uses dual-axis stabilized tracking system, and it can precisely acquire and lock onto the geosynchronous satellites even during high-speed driving and over rugged terrain. In such way, SANETEL C80 enables reliable, continuous broadband Internet access, e-mail, VOIP, VPN, video conference, file and other data communications in spite of rapid maneuvering.



Vehicle

Application



Parabola

Antenna type



Middle

Profile



INS

Built-in



IP65

Protection

SANETEL

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Specifications

Mechanical		Environmental	
Stabilized Type	Dual-axis stabilized and Gear drive	Operating Temperature	-40 °C ~ +65 °C
Dish Diameter	800mm	Storage Temperature	-45 °C ~ +70 °C
Dimension(D×H)	1100mm×550mm	Ingress Protection Rating	IP65
Antenna Weight	65 kg	Operating wind	Up to 72kph
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: 37.5 dBi (12.50 GHz)	Elevation Look Angle Range	+10°~+90°
	Tx: 38.5 dBi (14.25 GHz)	Antenna Polarization Range	±90°
The First side-lobe	≤-14 dB	Tracking Rate	Up to 80°/sec and 200°/sec ²
Cross-polarization isolation	≥30 dB (within 1 dB BW)	Stabilization Accuracy	0.15°RMS
G/T	16dB/K@30° elevation	Satellite re-acquisition	Instantaneous capture for <40 sec blockage <6 sec for <30 min blockage
Signal Polarization	Linear Orthogonal	GPS/BDS/INS	Built-in
Power Consumption	≤200W		

Advantages

Lightweight and Stable Structure

Lightweight composite construction and low profile design enable SANETEL C80 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 C80 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.

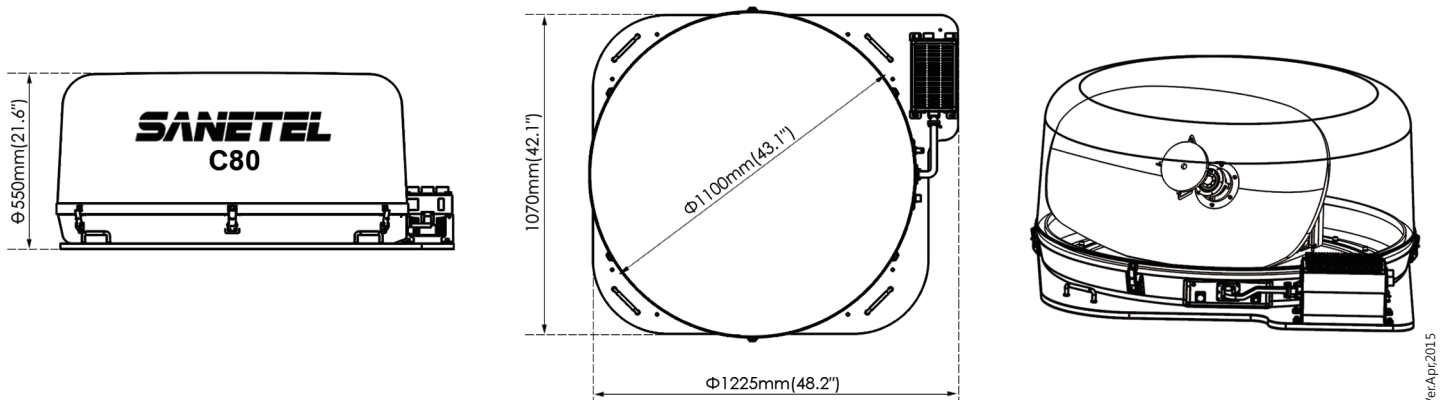
Excellent Compatibility and Expansibility

SANETEL C80 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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*Specification subject to change without notice.
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