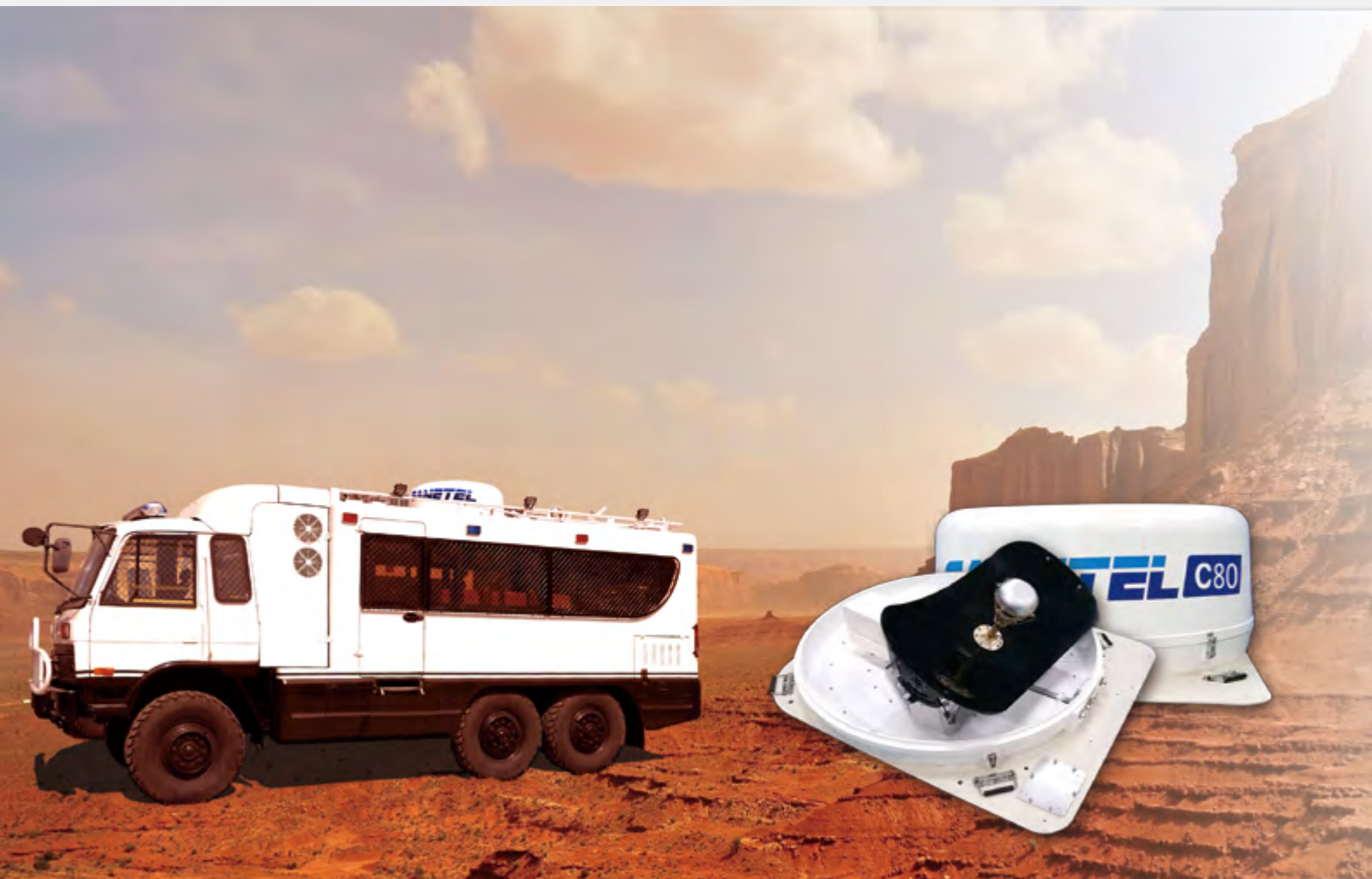


SANETEL-C80

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



Present the on-site situation right now in front of you

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 can precisely acquire and lock onto the geosynchronous satellites even during high-speed driving and over rugged terrain. In such a 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.

SANETEL
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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.

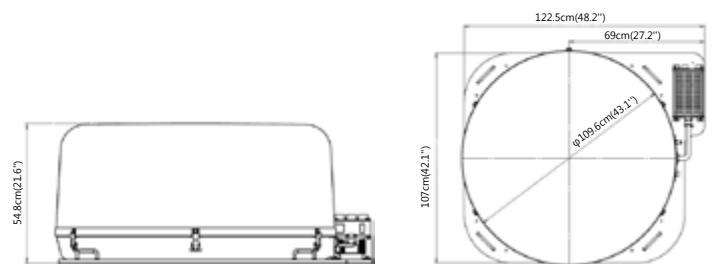
- **SANETEL Service**

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

Specifications

Mechanical	
Stabilized Type	Dual-axis stabilized and Gear drive
Equivalent Dish Diameter	80 cm
Dimension(D×H)	110cm×55 cm
Antenna Weight	65 kg
Antenna Type	Ring focus
Electrical	
Frequency Range	Rx: 10.95~12.75 GHz
	Tx: 13.75~14.50 GHz
Gain	Rx: 37.5 dBi (12.50 GHz)
	Tx: 38.5 dBi (14.25 GHz)
The First side-lobe	≤-14dB
Cross-polarization isolation	≥30 dB (within 1 dB BW)
G/T	16dB/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	+10°~+90°
Antenna Polarization Range	±90°
Tracking Rate	Up to 80°/sec and 200°/sec ²
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