

# SANETEL-S100

Ku-band Marine  
Satcom-on-the-Move Antenna



## Link up the sea empires

High quality ensures excellent performance despite rough sea conditions

SANETEL-S100 Ku-band Maritime Satcom-on-the-Move Antenna adopts intelligent dual-axis stabilized tracking structure, which can achieve automatic search, recognition, locking and real-time tracking of the satellite, even in harsh marine environments. In such a way, SANETEL-S100 enables reliable, continuous Internet access, E-mail , VOIP ,VPN , Video Conference, Files exchange and other broadband communication applications.

**SANETEL**  
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## Ku-band Marine Satcom-on-the-Move Antenna

### Advantages

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

SANETEL S100 is highly integrated with built-in Inertial Navigation System and Ku-band BUC up to 40W. MEMS INS and relevant algorithms ensure a competitive low price.

- **Gyrocompass-Free Tracking Capability**

SANETEL S100 uses built-in GPS/INS system to provide position and heading reference without separate input from the vessels' gyro-compass.

- **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.

- **Resistance to Severe Environments**

SANETEL S100 ODU adopts IP67 protection design and is resistant to water and dirt. The built-in dehumidification system effectively protects the product from ocean salt mist.

- **Outstanding Servo Tracking Performance**

SANETEL S100 is resistant to rolling and pitching up to 30° of the vessels, with a stabilized precision of 0.15° and tracking angle acceleration of 200°/s<sup>2</sup>.

- **Automatic Beam Switching (ABS)**

ABS allows seamless connection with almost all satellite routers.

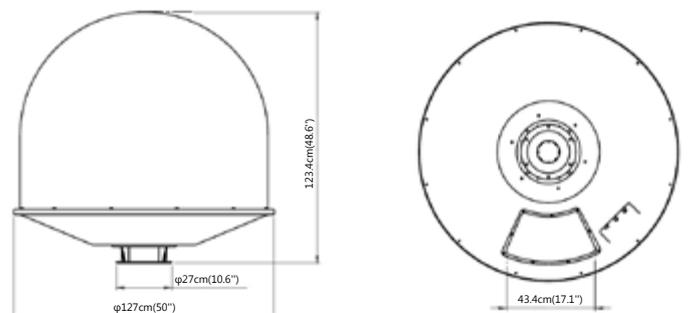
- **SANETEL Service**

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

### Specifications

Mechanical	
Stabilized Type	Dual-axis stabilized and Gear drive
Dish Diameter	100 cm
Dimension(D x H)	127×123 cm
Antenna Weight	90 kg
Antenna Type	Ring focus
Electrical	
Frequency Range	Rx:10.95~12.75 GHz Tx:13.75~14.50 GHz
Gain	Rx: 40.0 dBi (12.50 GHz) Tx: 41.0 dBi (14.25 GHz)
Side-lobe	≤-15dB
Cross-polarization isolation	≥30 dB(within 1dB BW)
G/T	18.5dB/K@30° elevation
Signal Polarization	Liner Orthogonal
Power Supply	AC 220 V @ 50 Hz
Power Consumption	200W
Tracking Performance	
Initialization Time	≤2 min, cold start
Azimuth Range	360° continuous
Elevation Look Angle Range	-5°~+110°
Antenna Polarization Range	±90°
Vessel Motion Range	±30° yaw, ±30° roll, ±30° pitch @ 4 sec period
Tracking Rate	Up to 80°/sec and 200°/sec <sup>2</sup>
Stabilization Accuracy	0.15°RMS
Environmental	
Operating Temperature	-40°C~+65°C
Storage Temperature	-45°C~+70 °C
Ingress Protection Rating	IP67

### Antenna Dimension



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