



# 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, file exchange and other broadband communication applications.



Vessel  
Application



2axis  
Stabilization



ABS  
Switch



IP67  
Protection



24 x 7  
Service

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# Specifications

Mechanical		Environmental	
Stabilized Type	Dual-axis stabilized and Gear drive	Operating Temperature	-40 C ~+65 C
Dish Diameter	1000mm	Storage Temperature	-45 C ~+70 C
Dimension(D×H)	1270mm×1234mm	Ingress Protection Rating	IP67
Antenna Weight	90 kg	Ground Speed	Up to 95%
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: 40.0 dBi (12.50 GHz)	Elevation Look Angle Range	0°~+110°
	Tx: 41.0 dBi (14.25 GHz)	Antenna Polarization Range	±90°
Side-lobe	≤-15 dB	Vessel Motion Range	±30° yaw,±30° roll ±30° pitch @ 4 sec period
Cross-polarization isolation	≥30 dB (within 1 dB BW)	Tracking Rate	Up to 80°/sec and 200°/sec <sup>2</sup>
G/T	18.8dB/K@30° elevation	Stabilization Accuracy	0.15°RMS
Signal Polarization	Liner Orthogonal	GPS/BDS/INS	Built-in
Power Consumption	≤200W		

## Advantages

### Highly Integrated and Cost-effective Design

SANETEL S100 is highly integrated with built-in Inertial Navigation System and Ku-band BUC up to 50W. The MEMS INS and relevant algorithms make it cost-effective.

### Gyrocompass-Free Tracking Capability

SANETEL S100 utilizes 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>.

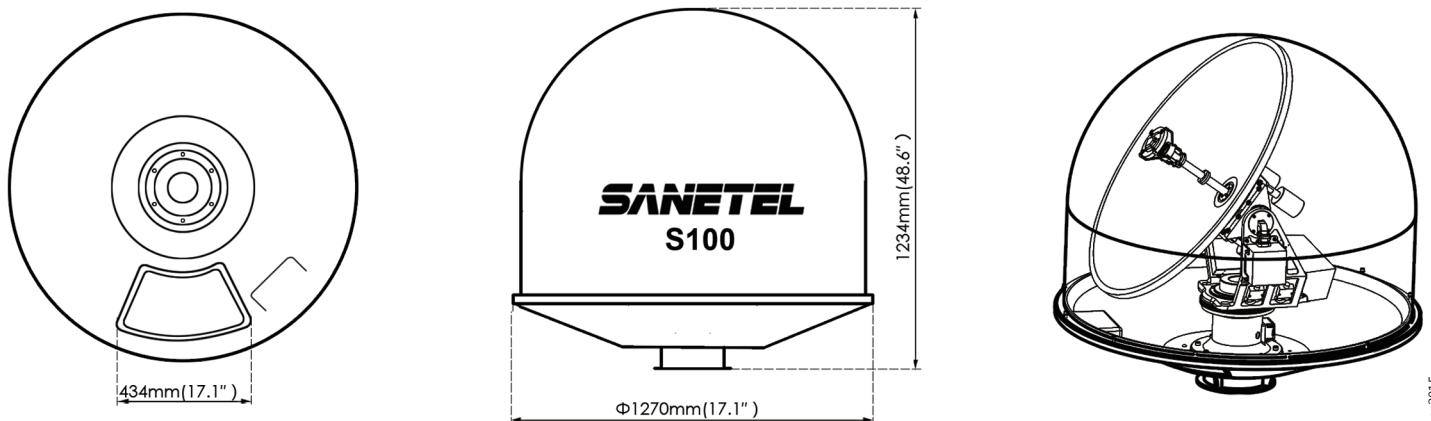
### Automatic Beam Switching (ABS)

ABS allows seamless connection with almost every satellite routers.

### SANETEL Service

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

## Antenna Dimension



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