SANETEL-S80K

Ku/Ka-band Satcom-on-the-Move Antenna For Vehicle

Link up the sea empires

High quality ensures excellent performance despite rough sea conditions
Convert Ku/Ka band within a few minutes

SANETEL-S80K is a Ku/Ka double-frequency on-board Satcom-on-the-Move(SOTM)system, which is especially designed for maritime application. It could completely satisfies the mobile communication requirements of ships on inland rivers, offshore and open sea, as well as the working platforms on the sea. This system is capable of tracking on high stability and reliance, facilitating auto-searching, identifying and locking in rough sea conditions with all-time satellite tracking. The S80K could offer a stable,affordable service even in a tough situation on the sea. The plug and play(PNP) conversion kit enables the convertion between Ka-band and Ku-band . The S80K's high-gain high-efficient reflector and tuned radome ensures the excellent service both in Ka beam and Ku beam.

Application Frequency Stabilization Built-in Protection

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Specifications

Mechanical		Environmental	
Stabilized Type	Tri-axis stabilized Gear drive	Operating Temperature	-40 ℃ ~+60 ℃
Dish Diameter	800mm	Storage Temperature	-45 ℃ ~+70 ℃
Dimension(D×H)	1000mm×1000mm	Ingress Protection Rating	IP65
Antenna Weight	58 kg	Operating wind	Up to 72kph
Antenna Type	Ring focus		
Electrical		**Tracking Performance**	
Frequency Range	Rx: 10.95~12.75 GHz (Ku-band)	Initialization Time	≤3 min,cold start
	Tx: 13.75~14.50 GHz (Ku-band)	Azimuth Range	360°continuous
	Rx: 19.60~21.20 GHz (Ka-band)	Elevation Look Angle Range	0°~+110°
	Tx: 29.40~31.00 GHz (Ka-band)	Antenna Polarization Range	≥180°
Gain	Rx: 38.30 dBi (Ku-band)	Vessel Motion Range	±30° yaw,±30° roll ±30° pitch @ 4 sec period
	Tx: 39.40 dBi (Ku-band)		
	Rx: 42.50 dBi (Ka-band)	Tracking Rate	Up to 60°/sec and 200°/sec^2
	Tx: 45.80 dBi (Ka-band)	Stabilization Accuracy	0.15°RMS
Side-lobe	≤-15dB		
Cross-polarization isolation	≥30dB (within 1dB BW)		
G/T	16.2dB/K@30° elevation		
	17.4dB/K@30° elevation		
Power Consumption	≤150W		

Advantages

Highly Integrated and Cost-effective Design

SANETEL S80K 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.

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.

Converting Ku/Ka Band Fast and Efficiently

The SANETEL-S80K's high-gain, highly-efficient reflector and tuned radome ensures the excellent service both in Ka beam and Ku beam.

Resistance to Severe Environments

SANETEL S80K 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 S80K 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^2.

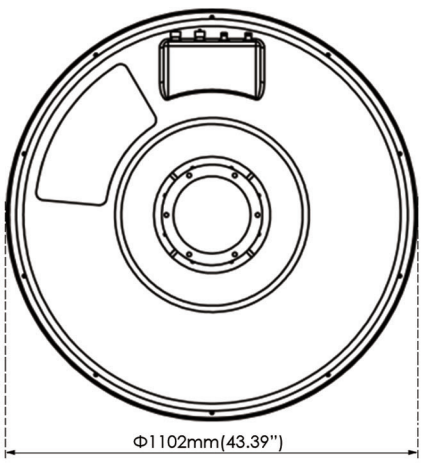
Automatic Beam Switching (ABS)

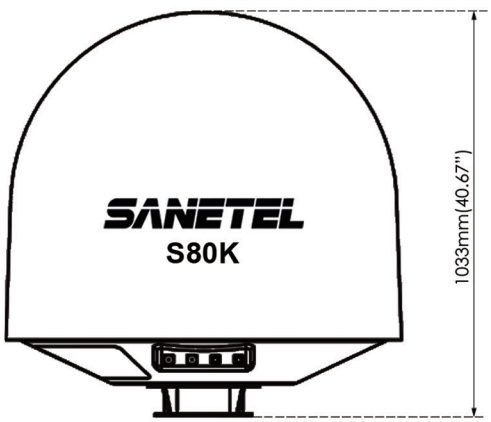
ABS allows seamless connection with almost every satellite routers.

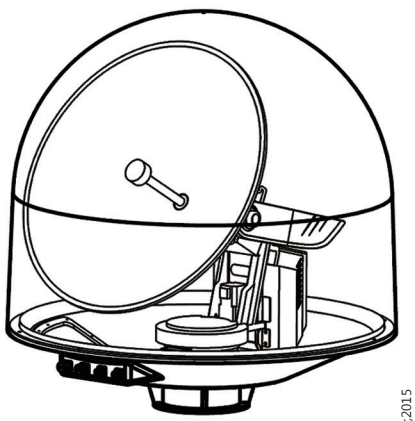
SANETEL Service

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

Antenna Dimension







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